Proactive by Design

Supplemental Remedial Investigation Report

50 Commercial Street
Brooklyn, New York 11222

November 27, 2023
File No. 12.0077448.00

PREPARED FOR:
Rimani Realty, LLC
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PE CERTIFICATION

I, Peter Jaran, certify that I am currently a NYS Registered Professional Engineer or Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report (RIR) for 50 Commercial Street, Brooklyn , NYSDEC Site No. C224278, was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Peter Jaran. P.E.

Name

066090

NYS PE License Number

Signature

November 27, 2023

Date

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APPENDICES

1.0 EXECUTIVE SUMMARY

This Supplemental Remedial Investigation Report (SRIR) was prepared by Goldberg Zoino Associates of New York, P.C. d/b/a GZA GeoEnvironmental of New York (GZA) on behalf of Rimani Realty, LLC for submittal to the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER), Brownfield Cleanup Program (BCP). The subject of this SRIR is the 50 Commercial Street, Brooklyn, New York (Site) and the activities completed in August 2023. The remedial investigation described in this document is in general conformance with applicable guidance called DER-10.

1.1 SITE LOCATION AND CURRENT USAGE

Rimani Realty LLC has entered into an agreement with the New York State Department of Environmental Conservation (NYSDEC) under the New York State Brownfield Cleanup Program (NYS BCP) to investigate and remediate a property located at 50 Commercial Street, Block 2482/Lots 1, 7, and 8, Brooklyn, New York. The Site is 12,324-square feet and is bounded by Commercial Street to the north, Clay Street to the south, an industrial warehouse and residential buildings to the east, and the intersection of Commercial Street and Clay Street to the west. The Site is shown on Figure 1.

Lot 1 is currently being used to stage construction equipment (currently used for truck parking). It was previously used for a variety of uses including a lumber yard, iron works, and service station. Lot 7 is developed with a one-story building and lot 8 contains a small shed and vacant land. Both lots were historically used as a lumber yard since approximately 1908.

The property located on 19 Clay Street, Interflo Technologies, and adjacent to the Site was previously a generator of hazardous waste that included the use of volatile organic compounds. The property directly across Clay Street is the Nuhart State Superfund site at 75 Dupont Street that has chlorinated volatile organics in groundwater and is being remediated at the time of this writing. Properties not adjoining the Site are generally residential and commercial.

1.2 SUMMARY OF PAST USES OF SITE AND AREAS OF CONCERN

Lot 1, according to the Sanborn Fire Insurance Maps as of 1887, consisted of four 3-story residential buildings and a commercial building. By 1942, the commercial building has been replaced with a 1-story commercial building where four gasoline tanks had been identified. By 1954, the commercial building had been identified as a filling station and the residential buildings had been identified as junk storage. By 1978, the filling station had been identified as commercial, the junk storage buildings had been demolished and the property had been identified as junk storage. By 1983, the property has been identified as vacant. By 1991, the remaining commercial building had been demolished. The property remains unchanged through 2007 based on aerial photographs.

Lots 7 and 8 according to the Sanborn Fire Insurance Maps as of 1887 to present have consisted of a 1-story warehouse and a garage. According to the NYC ZoLa database, the building on Lot 7 is a fireproof warehouse constructed in 1931. Steven Supply Co. Inc. formally operated at this location. Various lumber is stored in the

warehouse. Lot 8 was originally constructed in 1931 and is currently occupied with a wooden overhead awning and garage.

The AOCs consist of the following:

- VOC contaminated groundwater across the Site
  The onsite groundwater data indicates that there is TCE at concentrations as high as 270,000 ppb. The source of the TCE may be from an offsite source migrating onsite from a number of potential sources with historic use of TCE.

- Chlorinated VOCs and petroleum related contaminated soil
  There is contamination of soils based on the historic use of the site and historic fill used onsite.

- Underground Storage Tanks
  The Sanborn Maps indicated that there may be underground storage tanks (USTs) at the western end of the site. These would constitute another AOC if still present.

1.3 DESCRIPTION OF SURROUNDING PROPERTY USES

The area surrounding the Site consists of a mix of residential, commercial, and former industrial properties, parkland, and asphalt parking lots. An evaluation of the United States Geological Survey (USGS) 7-½ Minute Topographic Map containing the property indicated there are three sensitive receptors present within a 0.125-mile radius of the Subject Property. The three sensitive receptors are (1) Greenpoint Playground, (2) Newtown Barge Playground, (3) Greenpoint Landing Esplanade. 19 Clay Street is undergoing renovations and it is reported that this property may be conducting a remedial investigation. The Nuhart Superfund Site is being remediated as of the writing of the document. The proposed remedy will not interfere with surrounding property uses and considers the short term effects to neighboring properties.

1.4 SUMMARY OF WORK PERFORMED UNDER THE REMEDIAL INVESTIGATION

The Site is designated by NYSDEC as BCP Site No. C224278. A series of remedial investigations (RIs) were conducted onsite dating back to 2017. Activities conducted from September 2022 going forward were implemented under a Revised Remedial Investigation Work Plan prepared by Equity Environmental Engineering, LLC[11] (Equity) and approved by the Office of Environmental Remediation (OER). The January and August 2023 RI were conducted to provide additional site information in conjunction with the NYSDEC under the Brownfield Program.

RI activities were conducted on the following dates:

- December 26, 2017 – Advanced Cleanup Technologies (ACT)
- January 3, 2018 – Advanced Cleanup Technologies (ACT)
- January 8 to January 9, 2018 – Advanced Cleanup Technologies (ACT)

[1] Equity was acquired by GZA GeoEnvironmental, Inc. in January 2023.

- January 19, 2018 – Advanced Cleanup Technologies (ACT)
- August 31, 2022 – Equity Environmental Engineering LLC
- January 26, 2023 – Equity Environmental Engineering LLC, a Division of GZA Environmental Inc
- August 10 to August 11, 2023 – Equity Environmental Engineering LLC, a Division of GZA Environmental Inc.

RI activities included the following scope of work: (i) delineation of the horizontal and vertical extent of impacted soils, groundwater, and soil vapor on Site; (ii) assessment of the potential fate and transport of contaminants; and (iii) data collection to allow for evaluation of potential remedial alternatives for exposure mitigation.
The following is a brief presentation of the RI findings:

1. Elevation of the ground surface at the property is approximately 12 feet above mean sea level (NAVD 88) and is relatively flat.

2. Based on information obtained from permanent monitoring wells installed onsite, depth to groundwater ranged from approximately 8 to 10 feet below ground surface at the Site.

3. Groundwater on site flows from northwest to the southeast, although groundwater gradient is relatively flat beneath the Site.

4. Soils observed in boring logs advanced onsite indicate that from the surface down, consists of approximately 6-8 inches of concrete inside the buildings; followed by 1-5 feet of fine to medium brown sand with some gravel/cobbles and debris; followed by 5-7 feet of fine sand and silt to the water table. The color ranged from dark brown to gray across the site. From approximately 10-22 feet, the soil consisted of medium sands of various colors (brown, red, gray, etc.). Below 22- feet the soil changes to red-brown fine silt with gravel and cobbles towards the western end of the site.

2.0 SITE HISTORY

The following is a summary of the Site history including ownership and previous investigations onsite.

2.1 OWNERSHIP

The Site ownership history is as follows:

50 Commercial St. - Lot 1

- Rimani Realty LLC | Nicholas J Manetta | 101 Malba Drive, Whitestone, NY 11357 | Owner | 5/23/18 to Present
- Enrico R Manetta | Nicholas J Manetta | 101 Malba Drive, Whitestone, NY 11357 | None | 2/10/14 to 5/23/18
- Robert P Perez | Not Available | 118 Malba Drive, Whitestone, NY 11357 | None | 5/3/1989 to 2/10/14
- Rose Fabbo | Not Available | 204 California Place South, Island Park, NY 11558 | None | Not Available to 5/3/1989

15-17 Clay St. – Lot 7 & 56 Commercial St. – Lot 8

- Rimani Realty LLC | Nicholas J Manetta | 101 Malba Drive, Whitestone, NY 11357 | Owner | 8/16/22 to Present
- Greenport Development Group LLC | Not Available | 112-45 Roosevelt Avenue, Corona, NY 11368| None | 7/21/17 to 8/16/22
- Davrich Realty Corp | Not Available | 15-17 Clay St, Brooklyn, NY 11222 | None | Not Available to 7/21/17

The following table shows the current ownership of the properties:

Current Owner	Contact	Address	Date of Ownership or Operation
Rimani Realty LLC*	Nicholas Manetta	50 Commercial St.	June 2018 to present
Rimani Realty LLC*	Nicholas Manetta	15-17 Clay Street	August 2022 to present
Rimani Realty LLC*	Nicholas Manetta	56 Commercial St.	August 2022 to present

*Owner is presumed operator.

2.2 PREVIOUS INVESTIGATIONS

Phase I Environmental Site Assessment, January 2018 (Lot 1 only)

In January 2018, ACT completed a Phase I Environmental Site Assessment (ESA) for the Site in accordance with the scope and limitations of ASTM Practice E1527-13. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

1. Historical gasoline filling station and auto repair operations at the Site.
2. Suspect underground storage tanks at the Site.
3. Historical industrial usage of the adjacent properties; and
4. A potential vapor encroachment condition at the Site.

Remedial Investigation Report, December 2017

In December 2017, ACT performed a Remedial Investigation (RI) to evaluate the RECs identified during the Phase I ESA on Lot 1. ACT performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.).
2. Performed a geophysical investigation across the entire Site.
3. Installed six (6) soil borings across the entire project Site and collected twelve (12) soil samples for chemical analysis from the soil borings to evaluate soil quality.
4. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality.
5. Installed three (3) soil vapor probes around Site perimeter and collected three (3) samples for chemical analysis.

Remedial Investigation, August 2022

In August 2022, Equity performed a Remedial Investigation on Lots 7 and 8. Equity performed the following scope of work:

1. Conducted a surface geophysics survey of the entire property.
2. Installed seven soil borings across the entire project Site and collected 14 soil samples for chemical analysis from the soil borings to evaluate soil quality.

3. Installed five permanent groundwater monitoring wells throughout the Site and collected five groundwater samples for chemical analysis to evaluate groundwater quality.
4. Installed five soil vapor probes around the Site perimeter and collected five samples for chemical analysis.

Remedial Investigation, January 2023

In January 2023, Equity performed a Remedial Investigation on Lots 1, 7, and 8. Equity performed the following scope of work:

1. Installed six soil borings across the entire project Site and collected six soil samples for chemical analysis from the soil borings to evaluate soil quality.
2. Installed three temporary monitoring wells on Lot 1 collected three groundwater samples for chemical analysis to evaluate groundwater quality.

3.0 REMEDIAL INVESTIGATION ACTIVITIES

The August 2023 RI in conjunction with NYSDEC consisted of the following:

- Installation and sampling of four permanent wells to evaluate groundwater at a deeper elevation and the potential for monitored natural attenuation.
- Conducted slug tests on the four new wells.

3.1 PERMANENT MONITORING WELLS

In August 2023, GZA installed four permanent wells to a depth of approximately 35-40 feet deep, the approximate depth of a known silt/clay layer onsite. The wells were installed with 20 feet of screen to search for DNAPL and to sample groundwater from deeper elevations. The permanent wells were designated MW-4D, MW-6, MW-7, and MW-8. Two-inch diameter monitoring wells were installed using direct-push drilling equipment. The boring/well construction logs are provided in Appendix B. The well locations are depicted on **Figure 2** along with all previous sampling locations.

3.1.1 Groundwater Sampling

Groundwater samples were collected from each of the permanent monitoring well points using low-flow sampling procedures. The groundwater samples were placed in laboratory supplied glassware, placed on ice, and submitted under proper chain of custody.

The groundwater samples were analyzed for TCL VOCs, SVOCs, pesticides, PCBs, 1-4, dioxane, PFAS, and TAL metals (total and dissolved). The samples were filtered in the lab for the dissolved metals analysis. They were also sampled for ammonia, nitrates, nitrites, sulphates, iron, manganese, phosphorus, and total organic carbon (TOC). Sample results were compared against the NYSDEC Technical & Operational Guidance Series (TOGS) Ambient Water Quality Standards (AQWS).

As part of the field investigation, GZA also collected Quality Assurance/Quality Control (QA/QC) samples in order to: (1) check sample bottle preparation; (2) check sampling methodology field cross contamination; (3) evaluate contamination introduced during transport; and (4) confirm reliability of the analytical processes and equipment. One trip blank per sample shipment was analyzed for VOCs to assess contamination introduced to the samples during the transportation process.

A field blank was collected during groundwater sampling. Laboratory supplied de-ionized water was poured through/over unused sampling equipment and submitted as a field blank. Duplicate sample MW-701 was collected during groundwater sampling. The groundwater duplicate was taken from MW-7. The duplicate sample was collected immediately following the collection of the groundwater sample from MW-7.

To avoid cross contamination, sampling equipment (defined as any piece of equipment which may contact a sample) was decontaminated and/or managed according to the procedures outlined below:

3.1.2 Non-Dedicated Reusable Equipment

Non-dedicated reusable equipment such as pumps used for groundwater evacuation (and sampling, if applicable) etc. require field decontamination. Decontamination involved scrubbing/washing with a laboratory grade detergent (e.g., alconox) to remove visible contamination, followed by potable (tap) water and analyte-free water rinses. Well water was not used for this purpose. Equipment was allowed to dry, or wiped dry with clean paper towels, prior to additional use.

3.1.3 Disposable Sampling Equipment

Disposable sampling equipment including disposable gloves, string, tubing, and bladders associated with groundwater sampling/purging pumps were used only once.

3.2 SLUG TESTS

Slug Tests were conducted on the new monitoring wells installed in August 2023. Both rising and falling head slug tests were conducted to determine the hydraulic conductivity of the aquifer. The well response was measured using a Level Troll 700 transducer. The raw data and calculations are provided in Appendix C. The results of the slug test are as follows:

Monitoring Well	Hydraulic Conductivity
MW-4D	4.5E-05 cm/s
MW-6	1.7E-05 cm/s
MW-7	5.6E-05 cm/s
MW-8	4.2E-05 cm/s

4.0 ENVIRONMENTAL EVALUATION

The following sections present the results of the RIWP implementation.

4.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Based on information off the U.S. Geological Survey topographic map for Brooklyn, NY (2013) obtained from EDR, the Site is situated at an approximate elevation of 12 feet above mean sea level. The topographic gradient near the Site slopes generally down to the southeast. The nearest water bodies are the Newtown Creek and the East River, which are located approximately 524 feet north-northwest and 971 feet south-southwest of the Site, respectively.

4.1.1 Soil and Rock Conditions

Soils observed in boring logs advanced on Site indicate that subsurface soil at the Site consisted of a brown silty-sand matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately two feet below grade. Native soil consisting of brown silty sands is present below the historic fill. Bedrock was not encountered in any of the phases of investigation.

4.1.2 Groundwater Conditions

Based on information obtained from monitoring wells installed onsite, described in more detail in Section 3.0, depth to groundwater ranges from 8 to 10 feet bgs. Based on surveyed elevations of the water table, groundwater flow is generally from northeast to southwest, although the groundwater gradient on Site is relatively flat.

4.2 GROUNDWATER ANALYTICAL RESULTS

On August 10 and 11, 2023, GZA conducted groundwater sampling and the results collected during the SRI were compared to NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and New York State 6NYCRR Part 703.5 Class GA groundwater standards. The results were analyzed for analyzed for VOCs (including 1,4-Dioxane), SVOCs, PCBs, pesticides, total and dissolved metals, ammonia, nitrates, nitrites, phosphorus, iron, manganese, TOCs, sulphates, and PFAS.

Laboratory results from the four groundwater samples showed that PFOA/PFOS compounds in total were above the Groundwater Quality Guidance (GQS) values of 6.7 and 2.7 parts per trillion (ppt).

Several VOCs were identified in the groundwater in exceedance of their respective GQS, including Tetrachloroethene (maximum 450 ug/l); Vinyl chloride (maximum 600 ug/l); 1,1-Dichloroethene (maximum 17 ug/l); Trichloroethene (maximum 270,000 ug/l); and cis-1,2-Dichloroethene (maximum 33,000 ug/l). The highest concentrations of VOCs were found in MW-8 located at the property boundary between 17 and 19 Clay Street.

Numerous SVOCs were also identified in exceedance of their respective GQS, including Naphthalene (maximum 14 ug/l); Benzo(a)anthracene (maximum 0.05 ug/l); Benzo(a)pyrene (maximum 0.02 ug/l); Benzo(b)fluoranthene (maximum 0.02 ug/l); Benzo(k)fluoranthene (maximum 0.01 ug/l); and Chrysene (maximum 0.05 ug/l). These

contaminants are indicative of petroleum contamination. MW-8 was identified in exceedance for all SVOCs listed above, while MW-6 and MW-7 were identified in exceedance for all SVOCs except for Naphthalene. No SVOCs were identified in exceedance for MW-4D.

Metals were identified in the groundwater in exceedance of their respective GQS in both total and dissolved samples, including Aluminum (maximum 3,960 ug/l); Iron (maximum 7,760 ug/l); Magnesium (maximum 85,500 ug/l); Manganese (maximum 6,551 ug/l); and Sodium (maximum 274,000 ug/l). All metals identified previously were in exceedance for MW-4D, while all metals except for Aluminum were identified in exceedance for MW-6, MW-7, and MW-8. MW-4 had the maximum concentration of Iron and Manganese. MW-8 had the maximum concentrations of Sodium and Magnesium.

Sulfate exceedances were also identified in MW-6. MW-7, and MW-701 (maximum 430,000 ug/l).

Laboratory data for groundwater is summarized in **Table 1**. Laboratory reports can be found in **Appendix D**. The Groundwater Analytical Results Map can be found in **Figure 4**.

4.3 DATA USABILITY

GZA developed this Data Usability Summary Report (DUSR) to document the usability of the analytical data used to support the investigation of the 50 Commercial Street site (the "Site") located in Brooklyn, New York. GZA reviewed the groundwater data collected from the Site on August 10, 2023. The groundwater samples were submitted for analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), per- and polyfluoroalkyl substances (PFAS), metals, and wet chemistry characterization. The groundwater results are included in the sample delivery group (SDG) L2346742. The data generated have been submitted to the NYSDEC via the reduced laboratory data deliverables form.

It is GZA's opinion that, except for the limited rejected data, the data evaluated in this DUSR are scientifically valid and defensible; and of sufficient accuracy, precision, and completeness and therefore were considered usable. A copy of the DUSR is included in **Appendix E**.

5.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

The qualitative human health exposure assessment (QHHEA) identified groundwater as the primary impacted media and soil as the potential sources of Constituents of Potential Concern (COPCs). Site future residences are not a likely receptor population for dermal, or ingestion pathways. Construction or utility workers conducting intrusive subsurface activates could be exposed to COPCs in Site soils and groundwater. Compliance with the Construction Health & Safety Plan (CHASP) will minimize the potential exposure to construction or future utility workers. Only appropriately trained and supervised workers will be allowed onsite. The Soil/Materials Management Plan will outline soil and groundwater handling practices to minimize post-construction exposure.

5.1 SITE SETTING

A description of the Site and its history is presented in **Sections 1.0** and **2.0**. The Site is located at 50 Commercial Street, in Brooklyn, New York. Please refer to **Figure 1** for a Site location map. The Site will be redeveloped with the construction of a 5-story mixed-use commercial and residential building with parking under the building at ground level. The Site area is primarily commercial/industrial.

Subsurface soils at the Site are partially covered by concrete. Groundwater beneath the Site is not used as potable drinking water, nor does it feed recreational bodies at the Site or its vicinity. The potable water for the Site and surrounding area is supplied by municipal water. General Site use, a description of previous investigations, and the results of subsurface investigations can be found in **Sections 2.0, 3.0 and 6.0**, respectively.

5.2 EXPOSURE ASSESSMENT

The qualitative human health exposure assessment (QHHEA) discusses the potential impact of the Constituents of Potential Concern (COPCs) on future uses of the Site.

5.2.1 Potential Sources of Constituent of Potential Concern

For the purposes of this assessment, constituents detected above NYSDEC standards and guidelines for groundwater in are defined as constituents of potential concern (COPCs). A potential source area has been identified in the southeastern corner of the Site where the highest concentrations of TCE were observed in groundwater samples.

5.2.2 Potential Release Mechanisms

Based on previous phases of investigation, analysis of soil shows the Site-specific Constituents of Potential Concern (COPCs) for soils are metals, VOCs, and SVOCs. Analysis of groundwater indicates the presence of metals, chlorinated VOCs, and SVOCs. Analysis of soil gas indicates the presence of TCE, Cis-DCE, and Vinyl Chloride in soil gas above groundwater on Site. Release mechanisms for the contaminants of concern include the disturbance of soils during remediation/construction. Soil vapor could potentially be released during soil excavation and well installation by off-gassing from contaminated groundwater. Contaminants have been released to groundwater in what is believed to be offsite and upgradient sources.

5.2.3 Potential Human Receptors and Exposure Pathways

Ingestion, dermal contact, and inhalation are all possible routes of exposure to potential receptors. Subsurface soils are partially covered concrete, both on- and offsite. Open space covered with vegetation exists on the western end of the Site. Groundwater beneath the Site is not used as a water supply for commercial or industrial use, or as potable drinking water to residents or businesses. The potable water for the Site and surrounding area will be supplied by municipal water. Soil vapors do have the potential to become an inhalation hazard if vapor intrusion conditions exist. Based on the current use and the anticipated future use of the Site, the following potential human receptors have been identified: (i) future residents/employees/patrons and (ii) construction workers.

5.2.4 Residents/Workers/Employees

Future residents, onsite employees, patrons, and construction workers will be exposed to soil or groundwater during construction. Upon completion of the proposed construction, there will be no exposure concerns from ingestion or dermal contact. Soil vapor is at concentrations which NYSDOH Matrix 1 requires monitoring however the proposed remediation include the installation of a sub-slab depressurization system. Therefore, the potential for a complete exposure pathway for these receptor populations onsite, while possible, is unlikely. However, based on VOCs detected in the southeast corner of the Site, as well as off-Site to the south and east, there is a potential for offsite exposure via inhalation through soil vapor intrusion.

5.3 POTENTIAL ECOLOGICAL IMPACTS

Based upon the investigations conducted at the Site, it does not appear that a Fish and Wildlife Impact Analysis (FWIA) is necessary. The Site is in an area consisting of commercial and residential areas with minimal ecological habitat. Most soils on Site will be covered thereby reducing the potential for ecological impact. Therefore, the potential for Site related COPCs to migrate to the fish and wildlife resources, if present, is considered minimal.

5.4 QHHEA CONCLUSIONS

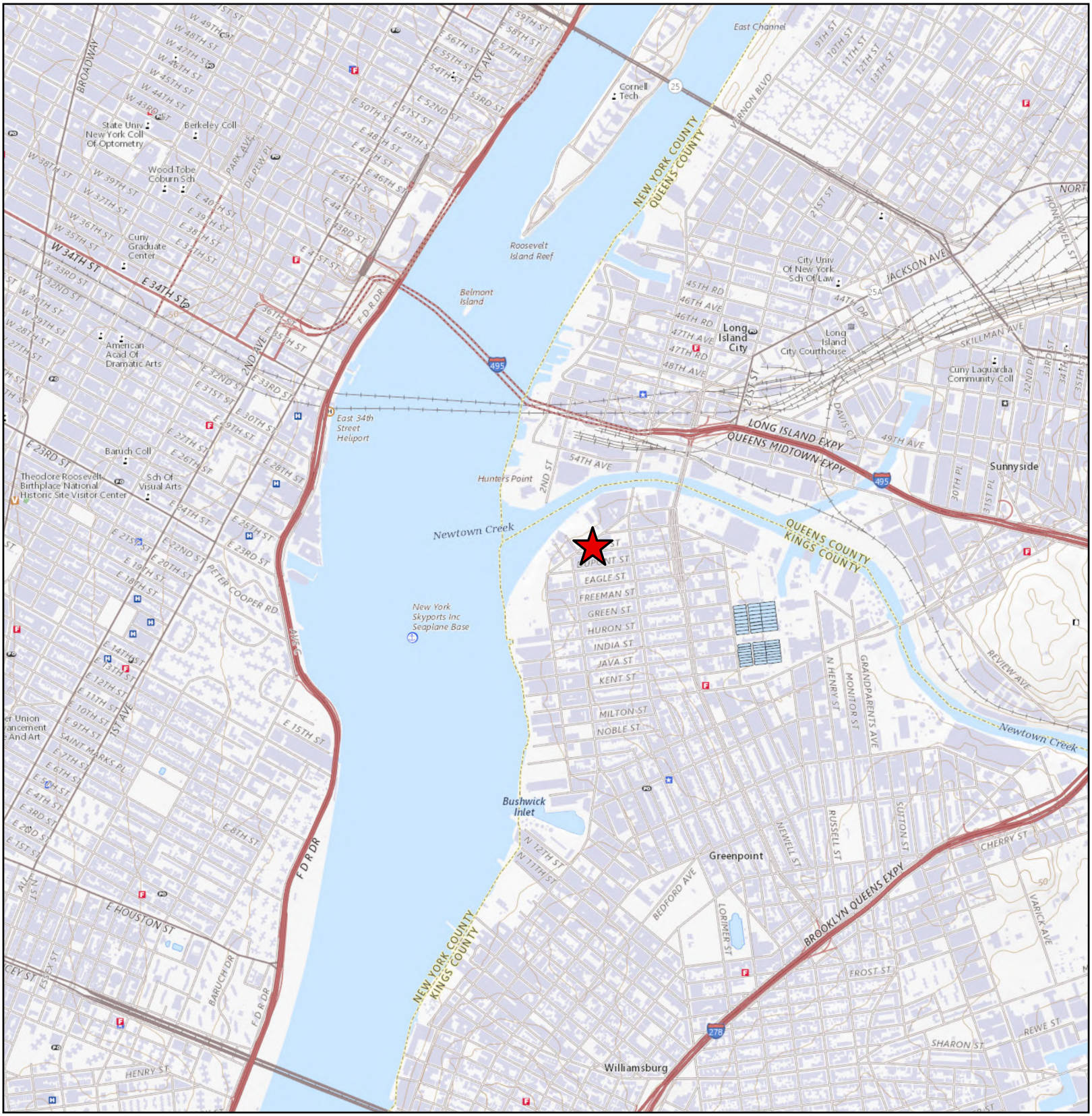
The QHHEA identified soil as the primary impacted media and the primary potential sources of COPCs. Construction or utility workers conducting intrusive subsurface activates could be exposed to COPCs in Site soils and groundwater. The Site Management Plan will outline soil and groundwater handling practices to minimize exposure.

6.0 CONCLUSIONS

This investigation has identified TCE and 1,1,1-Trichloroethane within Site groundwater at concentrations in excess of the NYSDEC Ambient Water Quality Standards. Groundwater beneath the Site occurs at 8-10 feet bgs. Based on water level readings, the direction of groundwater flow is from the northeast to southwest. The proposed remediation for the Site includes the in-situ treatment of groundwater and the installation of a groundwater cut-off wall along the eastern border of the Site to prevent further contamination of the Site.

The Qualitative Human Health Exposure Assessment identified that the potential for a complete groundwater and soil vapor exposure pathways exists only for construction workers. Following Site remediation, the exposure pathway will no longer exist for groundwater. Exposure pathways for soil and soil vapor will likewise be eliminated post-remediation and construction based on the proposed composite site cover and the SSDS.

Figures



Legend

★ 50 Commercial Street

±

0 1,000 2,000 4,000 Feet

50 COMMERCIAL STREET DEVELOPMENT
50 COMMERCIAL STREET
BROOKLYN, NEW YORK, DEC SITE NO: C224278

SUPPLEMENTAL RIR
USGS SITE LOCATION MAP

PREPARED BY: equity environmental engineering, A Division of GZA		PREPARED FOR: RIMANI REALTY LLC	
PROJ MGR: RLJ	REVIEWED BY: KF	CHECKED BY: RLJ	FIG 1
DESIGNED BY: GB	DRAWN BY: GB	SCALE: 1:24,000	
DATE: 11/20/2023	PROJECT NO: 12.0077448.00	REVISION NO:	

Legend

50 Commercial Street

0 15 30 60 US Feet

50 COMMERCIAL STREET DEVELOPMENT
50 COMMERCIAL STREET
BROOKLYN, NEW YORK, DEC SITE NO: C224278

SUPPLEMENTAL RIR
SITE PLAN

PREPARED BY: equity environmental engineering, A Division of GZA		PREPARED FOR: RIMANI REALTY LLC	
PROJ MGR: RLJ	REVIEWED BY: KF	CHECKED BY: RLJ	FIG 2
DESIGNED BY: GB	DRAWN BY: GB	SCALE: 1:415	
DATE: 11/20/2023	PROJECT NO: 12.0077448.00	REVISION NO:	

Legend

- 50 Commercial Street
- Soil Boring / Temporary Well Point January - 2023 Sampling Event
- Soil Boring - August 2022 Sampling Event
- Soil Vapor - September 2022 Sampling Event
- Monitoring Wells - August 2022 Sampling Event
- Soil Boring / Temporary Well Point - January 2018 Sampling Event
- Soil Vapor - January 2018 Sampling Event
- Monitoring Wells - August 2023 Sampling Event

50 COMMERCIAL STREET DEVELOPMENT
50 COMMERCIAL STREET
BROOKLYN, NEW YORK, DEC SITE NO: C224278

SUPPLEMENTAL RIR
SAMPLING LOCATION PLAN

PREPARED BY: equity environmental engineering, A Division of GZA		PREPARED FOR: RIMANI REALTY LLC	
PROJ MGR: RLJ	REVIEWED BY: KF	CHECKED BY: RLJ	FIG 3
DESIGNED BY: MB	DRAWN BY: MB	SCALE: 1:360	
DATE: 11/20/2023	PROJECT NO: 12.0077448.00	REVISION NO:	

	Sample ID:	MW-6
	Sample Date:	8/10/2023
Compound	NY AWQS	Total Concentration (ug/l)
Trichloroethene	5	140
cis-1,2-Dichloroethene	5	16
Perfluorooctanoic Acid (PFOA)	0.01	0.0322
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.00896
1,4-Dioxane	1	3.22
Benzo(a)anthracene	0.002	0.05J
Benzo(a)pyrene	0.002	0.02J
Benzo(b)fluoranthene	0.002	0.02J
Benzo(k)fouranthene	0.002	0.01J
Chrysene	0.002	0.05J
Magnesium, Dissolved	3500	59300
Manganese, Dissolved	300	363.1
Sodium, Dissolved	2000	81300
Iron, Total	300	681
Magnesium, Total	3500	63800
Manganese, Total	300	414.8
Sodium, Total	20000	87400
Sulfate	250000	430000

	Sample ID:	MW-4D
	Sample Date:	8/10/2023
Compound	NY AWQS	Total Concentration (ug/l)
Vinyl Chloride	2	120
1,1-Dichloroethene	5	17J
Trichloroethene	5	9200
cis-1,2-Dichloroethene	5	4300
1,4-Dioxane	1	3.26
Perfluorooctanoic Acid (PFOA)	0.01	0.927
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.0314
Magnesium, Dissolved	3500	44100
Manganese, Dissolved	300	7454
Sodium, Dissolved	2000	174000
Iron, Total	300	7760
Magnesium, Total	3500	44500
Manganese, Total	300	6551
Sodium, Total	20000	163000

	Sample ID:	TW-3
	Sample Date:	1/26/2023
Compound	NY-AWQS	Total Concentration (ug/l)
Perfluorooctanoic Acid (PFOA)	0.01	0.0718
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.0456

	Sample ID:	TW-2	TW-202
	Sample Date:	1/26/2023	1/26/2023
Compound	NY-AWQS	Total Concentration (ug/l)	Total Concentration (ug/l)
Perfluorooctanoic Acid (PFOA)	0.01	0.0332	0.0298
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.0414	0.0500

	Sample ID:	MW-8
	Sample Date:	8/10/2023
Compound	NY AWQS	Total Concentration (ug/l)
Tetrachlorothene	5	450J
Vinyl Chloride	2	600J
Trichloroethene	5	270000
cis-1,2-Dichloroethene	5	33000
1,4-Dioxane	1	6
Perfluorooctanoic Acid (PFOA)	0.01	0.102
Napthalene	10	14
Chrysene	0.002	0.01J
Magnesium, Dissolved	3500	85500
Manganese, Dissolved	300	4170
Sodium, Dissolved	2000	274000
Iron, Total	300	3360
Magnesium, Total	3500	77600
Manganese, Total	300	3491
Sodium, Total	20000	243000

	Sample ID:	TW-1
	Sample Date:	1/26/2023
Compound	NY-AWQS	Total Concentration (ug/l)
Perfluorooctanoic Acid (PFOA)	0.01	0.0393
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.0924

	Sample ID:	MW-7	MW-701
	Sample Date:	8/10/2023	8/10/2023
Compound	NY AWQS	Total Concentration (ug/l)	Total Concentration (ug/l)
Trichloroethene	5	910	860
cis-1,2-Dichloroethene	5	260	220
1,4-Dioxane	1	1.12	1.13
Perfluorooctanoic Acid (PFOA)	0.01	0.0495	0.0548
Perfluorooctanesulfonic Acid (PFOS)	0.01	0.0138	0.0153
Benzo(a)anthracene	0.002	0.02J	0.02J
Benzo(b)fluoranthene	0.002	0.01J	0.01J
Benzo(k)fouranthene	0.002	0.01J	0.01J
Chrysene	0.002	0.02J	0.02J
Magnesium, Dissolved	3500	54800	56900
Manganese, Dissolved	300	1115	1202
Sodium, Dissolved	2000	79200	85000
Iron, Total	300	488	428
Magnesium, Total	3500	56600	52600
Manganese, Total	300	1190	1174
Sodium, Total	20000	83100	81300
Sulfate	250000	320000	300000

Legend

- 50 Commercial Street
- Monitoring Wells - August 2023 Sampling Event
- Temporary Well Point - January 2023 Sampling Event

Notes:
1. NY AWQS - New York TOGS 111 Ambient Water Quality Standards
2. PFOA/PFOS standards based on NY Adopted MCLs - Department of Health (DOH) maximum contaminated levels for finished drinking water
3. Pink highlighted cells indicate a value that exceeds the standards
4. Several compounds were not detected but had reporting limits and/or method detection limits above the standards - see Table 7 for detailed results
5. J - Estimated
6. TW-202 and MW-701 were collected as field duplicate samples
7. ug/l - micrograms per liter

0 40 80 160 US Feet

50 COMMERCIAL STREET DEVELOPMENT
50 COMMERCIAL STREET
BROOKLYN, NEW YORK, DEC SITE NO: C224278

AUGUST 2023 GROUNDWATER MAP

PREPARED BY: equity environmental engineering, A Division of GZA

PREPARED FOR: RIMANI REALTY LLC

PROJ MGR:	RLJ	REVIEWED BY:	KF	CHECKED BY:	RLJ
DESIGNED BY:	GB	DRAWN BY:	GB	SCALE:	1:960
DATE:	11/21/2023	PROJECT NO:	12.0077448.00	REVISION NO:	

FIG 4

Tables

Table 1 - Groundwater Analytical Results

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
		NY-AWQS	NY-TOGS-GA																												
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																															
Methylene chloride	75-09-2	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,1-Dichloroethane	75-34-3	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Chloroform	67-66-3	7	7	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Carbon tetrachloride	56-23-5	5	5	ND		0.5	0.13	ND		2.5	0.67	ND		5	1.3	ND		1000	270	ND		0.5	0.13	ND		0.5	0.13	ND		50	13
1,2-Dichloropropane	78-87-5	1	1	ND		1	0.14	ND		5	0.68	ND		10	1.4	ND		2000	270	ND		1	0.14	ND		1	0.14	ND		100	14
Dibromochloromethane	124-48-1	50	50	ND		0.5	0.15	ND		2.5	0.74	ND		5	1.5	ND		1000	300	ND		0.5	0.15	ND		0.5	0.15	ND		50	15
1,1,2-Trichloroethane	79-00-5	1	1	ND		1.5	0.5	ND		7.5	2.5	ND		15	5	ND		3000	1000	ND		1.5	0.5	ND		1.5	0.5	ND		150	50
Tetrachloroethene	127-18-4	5	5	0.36	J	0.5	0.18	1.1	J	2.5	0.9	ND		5	1.8	450	J	1000	360	ND		0.5	0.18	ND		0.5	0.18	ND		50	18
Chlorobenzene	108-90-7	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Trichlorofluoromethane	75-69-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2-Dichloroethane	107-06-2	0.6	0.6	ND		0.5	0.13	ND		2.5	0.66	ND		5	1.3	ND		1000	260	ND		0.5	0.13	ND		0.5	0.13	ND		50	13
1,1,1-Trichloroethane	71-55-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromodichloromethane	75-27-4	50	50	ND		0.5	0.19	ND		2.5	0.96	ND		5	1.9	ND		1000	380	ND		0.5	0.19	ND		0.5	0.19	ND		50	19
trans-1,3-Dichloropropene	10061-02-6	0.4	0.4	ND		0.5	0.16	ND		2.5	0.82	ND		5	1.6	ND		1000	330	ND		0.5	0.16	ND		0.5	0.16	ND		50	16
cis-1,3-Dichloropropene	10061-01-5	0.4	0.4	ND		0.5	0.14	ND		2.5	0.72	ND		5	1.4	ND		1000	290	ND		0.5	0.14	ND		0.5	0.14	ND		50	14
1,3-Dichloropropene, Total	542-75-6			ND		0.5	0.14	ND		2.5	0.72	ND		5	1.4	ND		1000	290	ND		0.5	0.14	ND		0.5	0.14	ND		50	14
1,1-Dichloropropene	563-58-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromoform	75-25-2	50	50	ND		2	0.65	ND		10	3.2	ND		20	6.5	ND		4000	1300	ND		2	0.65	ND		2	0.65	ND		200	65
1,1,2,2-Tetrachloroethane	79-34-5	5	5	ND		0.5	0.17	ND		2.5	0.84	ND		5	1.7	ND		1000	330	ND		0.5	0.17	ND		0.5	0.17	ND		50	17
Benzene	71-43-2	1	1	ND		0.5	0.16	ND		2.5	0.8	ND		5	1.6	ND		1000	320	ND		0.5	0.16	ND		0.5	0.16	ND		50	16
Toluene	108-88-3	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Ethylbenzene	100-41-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Chloromethane	74-87-3			ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromomethane	74-83-9	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Vinyl chloride	75-01-4	2	2	0.14	J	1	0.07	1.5	J	5	0.36	1.6	J	10	0.71	600	J	2000	140	ND		1	0.07	ND		1	0.07	120		100	7.1
Chloroethane	75-00-3	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,1-Dichloroethene	75-35-4	5	5	0.29	J	0.5	0.17	2.1	J	2.5	0.84	2	J	5	1.7	ND		1000	340	ND		0.5	0.17	ND		0.5	0.17	17	J	50	17
trans-1,2-Dichloroethene	156-60-5	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Trichloroethene	79-01-6	5	5	140		0.5	0.18	910		2.5	0.88	860		5	1.8	270000		1000	350	ND		0.5	0.18	ND		0.5	0.18	9200		50	18
1,2-Dichlorobenzene	95-50-1	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,3-Dichlorobenzene	541-73-1	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,4-Dichlorobenzene	106-46-7	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Methyl tert butyl ether	1634-04-4	10	10	0.91	J	2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p/m-Xylene	179601-23-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
o-Xylene	95-47-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Xylenes, Total	1330-20-7			ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
cis-1,2-Dichloroethene	156-59-2	5	5	16		2.5	0.7	260		12	3.5	220		25	7	33000		5000	1400	ND		2.5	0.7	ND		2.5	0.7	4300		250	70
1,2-Dichloroethene, Total	540-59-0			16		2.5	0.7	260		12	3.5	220		25	7	33000		5000	1400	ND		2.5	0.7	ND		2.5	0.7	4300		250	70
Dibromomethane	74-95-3	5	5	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
1,2,3-Trichloropropane	96-18-4	0.04	0.04	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Acrylonitrile	107-13-1	5	5	ND		5	1.5	ND		25	7.5	ND		50	15	ND		10000	3000	ND		5	1.5	ND		5	1.5	ND		500	150
Styrene	100-42-5	5	930	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Dichlorodifluoromethane	75-71-8	5	5	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
Acetone	67-64-1	50	50	ND		5	1.5	ND		25	7.3	ND		50	15	ND		10000	2900	ND		5	1.5	ND		5	1.5	ND		500	150
Carbon disulfide	75-15-0	60	60	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
2-Butanone	78-93-3	50	50	ND		5	1.9	ND		25	9.7	ND		50	19	ND		10000	3900	ND		5	1.9	ND		5	1.9	ND		500	190
Vinyl acetate	108-05-4			ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
4-Methyl-2-pentanone	108-10-1			ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
2-Hexanone	591-78-6	50	50	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
Bromochloromethane	74-97-5	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
2,2-Dichloropropane	594-20-7	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2-Dibromoethane	106-93-4	0.0006	0.0006	ND		2	0.65	ND		10	3.2	ND		20	6.5	ND		4000	1300	ND		2	0.65	ND		2	0.65	ND		200	65
1,3-Dichloropropane	142-28-9	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,1,1,2-Tetrachloroethane	630-20-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromobenzene	108-86-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
n-Butylbenzene	104-51-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
sec-Butylbenzene	135-98-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
tert-Butylbenzene	98-06-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
o-Chlorotoluene	95-49-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p-Chlorotoluene	106-43-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.04	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Hexachlorobutadiene	87-68-3	0.5	0.5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Isopropylbenzene	98-82-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p-Isopropyltoluene	99-87-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Naphthalene	91-20-3	10	10	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
n-Propylbenzene	103-65-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2,3-Trichlorobenzene	87-61-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2,4-Trichlorobenzene	120-82-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,3,5-Trimethylbenzene	108-67-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2,4-Trimethylbenzene	95-63-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,4-Dioxane	123-91-1			ND		250	61	ND		1200	300	ND		2500	610	ND		500000	120000	ND		250	61	ND		250	61	ND		25000	6100
p-Diethylbenzene	105-05-5			ND		2	0.7	ND		10	3.5	ND		20	7	ND		4000	1400	ND		2	0.7	ND		2	0.7	ND		200	70
p-Ethyltoluene	622-96-8			ND		2	0.7	ND		10	3.5	ND		20	7	ND		4000	1400	ND		2	0.7	ND		2	0.7	ND		200	70
1,2,4,5-Tetramethylbenzene	95-93-2	5	5	ND		2	0.54	ND		10	2.7	ND		20	5.4	ND		4000	1100	ND		2	0.54	ND		2	0.54	ND		200	54
Ethyl ether	60-29-7			ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
trans-1,4-Dichloro-2-butene	110-57-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Total VOCs				157.7	-	-	-	1174.7	-	-	-	1083.6	-	-	-	304050	-	-	-	-	-	-	-	-	-	-	-	13637	-	-	-
1,4 DIOXANE BY 8270E-SIM																															
1,4-Dioxane	123-91-1			3.22		0.147	0.0332	1.12		0.15	0.0339	1.13		0.147	0.0332	6		3	0.678	ND		0.147	0.0332	-		-	-	3.26		0.15	0.0339
PERFLUORINATED ALKYL ACIDS BY EPA 1633																															
Perfluorobutanoic Acid (PFBA)	375-22-4			0.0104	J	0.0128	0.00205	0.00778		0.00635	0.00102	0.00818		0.00629	0.00101	0.00608	J	0.0128	0.00205	ND		0.00607	0.000971	-		-	-	0.025	J	0.0256	0.0041
Perfluoropentanoic Acid (PFPeA)	2706-90-3			0.0117		0.0064	0.00171	0.00698		0.00317	0.000849	0.00716		0.00315	0.000842	0.0123		0.0064	0.00171	ND		0.00303	0.000812	-		-	-	0.0317		0.0128	0.00342
Perfluorobutanesulfonic Acid (PFBS)	375-73-5			0.00624		0.0032	0.00107	0.00413		0.00159	0.000532	0.00425		0.00157	0.000527	0.00944		0.0032	0.00107	ND		0.00152	0.000508	-		-	-	0.0314		0.0064	0.00214
Perfluorohexanoic Acid (PFHxA)	307-24-4			0.00944		0.0032	0.000944	0.0073		0.00159	0.000468	0.007		0.00157	0.000464	0.00944		0.0032	0.000944	ND		0.00152	0.000447	-		-	-	0.0349		0.0064	0.00189
Perfluoroheptanoic Acid (PFHpA)	375-85-9			0.00688		0.0032	0.00064	0.00722		0.00159	0.000317	0.00669		0.00157	0.000315	0.008		0.0032	0.00064	ND		0.00152	0.000303	-		-	-	0.033		0.0064	0.00128

				SAMPLE ID:	MW-6			MW-7			MW-701			MW-8			EQUIP/FIELD BLANK			TRIP BLANK			MW-4D		
				LAB ID:	L2346742-01			L2346742-02			L2346742-03			L2346742-04			L2346742-05			L2346742-06			L2346742-07		
				COLLECTION DATE:	8/10/2023			8/10/2023			8/10/2023			8/10/2023			8/10/2023			8/10/2023			8/10/2023		
				SAMPLE DEPTH:																					
				SAMPLE MATRIX:	WATER			WATER			WATER			WATER			WATER			WATER			WATER		
		NY-AWQS	NY-TOGS-GA																						
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4			0.00416		0.0032	0.000768	0.00349		0.00159	0.000381	0.00346		0.00157	0.000378	0.00928		0.0032	0.000768	ND		0.00152	0.000364	-		-	-	0.025		0.0064	0.00154
Perfluorooctanoic Acid (PFOA)	335-67-1			0.0322		0.0032	0.00139	0.0495		0.00159	0.00069	0.0548		0.00157	0.000684	0.102		0.0032	0.00139	ND		0.00152	0.00066	-		-	-	0.927		0.0064	0.00278
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2F	27619-97-2			ND		0.0128	0.00432	0.00516	J	0.00635	0.00214	0.00771		0.00629	0.00212	0.0307		0.0128	0.00432	ND		0.00607	0.00205	-		-	-	0.247		0.0256	0.00864
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8			ND		0.0032	0.000864	ND		0.00159	0.000428	ND		0.00157	0.000425	ND		0.0032	0.000864	ND		0.00152	0.00041	-		-	-	ND		0.0064	0.00173
Perfluorononanoic Acid (PFNA)	375-95-1			ND		0.0032	0.00101	0.00143	J	0.00159	0.0005	0.0015	J	0.00157	0.000496	ND		0.0032	0.00101	ND		0.00152	0.000478	-		-	-	ND		0.0064	0.00202
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1			0.00896		0.0032	0.00146	0.0138		0.00159	0.000722	0.0153		0.00157	0.000716	0.004		0.0032	0.00146	ND		0.00152	0.00069	-		-	-	0.0314		0.0064	0.00291
Perfluorodecanoic Acid (PFDA)	335-76-2			ND		0.0032	0.0013	ND		0.00159	0.000643	ND		0.00157	0.000637	ND		0.0032	0.0013	ND		0.00152	0.000614	-		-	-	ND		0.0064	0.00259
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2	39108-34-4			ND		0.0128	0.00498	ND		0.00635	0.00247	ND		0.00629	0.00245	ND		0.0128	0.00498	ND		0.00607	0.00236	-		-	-	ND		0.0256	0.00995
N-Methyl Perfluorooctanesulfonamidoacetic Acid	2355-31-9			ND		0.0032	0.00174	ND		0.00159	0.000865	ND		0.00157	0.000858	ND		0.0032	0.00174	ND		0.00152	0.000827	-		-	-	ND		0.0064	0.00349
Perfluoroundecanoic Acid (PFUnA)	2058-94-8			ND		0.0032	0.00139	ND		0.00159	0.00069	ND		0.00157	0.000684	ND		0.0032	0.00139	ND		0.00152	0.00066	-		-	-	ND		0.0064	0.00278
Perfluorododecanesulfonic Acid (PFDS)	335-77-3			ND		0.0032	0.000736	ND		0.00159	0.000365	ND		0.00157	0.000362	ND		0.0032	0.000736	ND		0.00152	0.000349	-		-	-	ND		0.0064	0.00147
Perfluorooctanesulfonamide (PFOSA)	754-91-6			ND		0.0032	0.000864	ND		0.00159	0.000428	ND		0.00157	0.000425	ND		0.0032	0.000864	ND		0.00152	0.00041	-		-	-	ND		0.0064	0.00173
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	2991-50-6			ND		0.0032	0.00173	ND		0.00159	0.000857	ND		0.00157	0.00085	ND		0.0032	0.00173	ND		0.00152	0.000819	-		-	-	ND		0.0064	0.00346
Perfluorododecanoic Acid (PFDoA)	307-55-1			ND		0.0032	0.00147	ND		0.00159	0.00073	ND		0.00157	0.000724	ND		0.0032	0.00147	ND		0.00152	0.000698	-		-	-	ND		0.0064	0.00294
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8			ND		0.0032	0.0012	ND		0.00159	0.000595	ND		0.00157	0.00059	ND		0.0032	0.0012	ND		0.00152	0.000569	-		-	-	ND		0.0064	0.0024
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7			ND		0.0032	0.000848	ND		0.00159	0.00042	ND		0.00157	0.000417	ND		0.0032	0.000848	ND		0.00152	0.000402	-		-	-	ND		0.0064	0.0017
PFOA/PFOS, Total				0.0412		0.0032	0.00139	0.0633		0.00159	0.00069	0.0701		0.00157	0.000684	0.106		0.0032	0.00139	ND		0.00152	0.00066	-		-	-	0.958		0.0064	0.00278
SEMIVOLATILE ORGANICS BY GC/MS																															
1,2,4-Trichlorobenzene	120-82-1	5	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
Bis(2-chloroethyl)ether	111-44-4	1	1	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	-		-	-	ND		2	0.5
1,2-Dichlorobenzene	95-50-1	3	3	ND		2	0.45	ND		2	0.45	ND		2	0.45	ND		2	0.45	ND		2	0.45	-		-	-	ND		2	0.45
1,3-Dichlorobenzene	541-73-1	3	3	ND		2	0.4	ND		2	0.4	ND		2	0.4	ND		2	0.4	ND		2	0.4	-		-	-	ND		2	0.4
1,4-Dichlorobenzene	106-46-7	3	3	ND		2	0.43	ND		2	0.43	ND		2	0.43	ND		2	0.43	ND		2	0.43	-		-	-	ND		2	0.43
3,3'-Dichlorobenzidine	91-94-1	5	5	ND		5	1.6	ND		5	1.6	ND		5	1.6	ND		5	1.6	ND		5	1.6	-		-	-	ND		5	1.6
2,4-Dinitrotoluene	121-14-2	5	5	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
2,6-Dinitrotoluene	606-20-2	5	5	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93	-		-	-	ND		5	0.93
4-Chlorophenyl phenyl ether	7005-72-3			ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	-		-	-	ND		2	0.49
4-Bromophenyl phenyl ether	101-55-3			ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38	-		-	-	ND		2	0.38
Bis(2-chloroisopropyl)ether	108-60-1	5	5	ND		2	0.53	ND		2	0.53	ND		2	0.53	ND		2	0.53	ND		2	0.53	-		-	-	ND		2	0.53
Bis(2-chloroethoxy)methane	111-91-1	5	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
Hexachlorocyclopentadiene	77-47-4	5	5	ND		20	0.69	ND		20	0.69	ND		20	0.69	ND		20	0.69	ND		20	0.69	-		-	-	ND		20	0.69
Isophorone	78-59-1	50	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
Nitrobenzene	98-95-3	0.4	0.4	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77	-		-	-	ND		2	0.77
NDPA/DPA	86-30-6	50	50	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42	-		-	-	ND		2	0.42
n-Nitrosodi-n-propylamine	621-64-7			ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64	-		-	-	ND		5	0.64
Bis(2-ethylhexyl)phthalate	117-81-7	5	5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5	-		-	-	ND		3	1.5
Butyl benzyl phthalate	85-68-7	50	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
Di-n-butylphthalate	84-74-2	50	50	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39	-		-	-	ND		5	0.39
Di-n-octylphthalate	117-84-0	50	50	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3	-		-	-	ND		5	1.3
Diethyl phthalate	84-66-2	50	50	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38	-		-	-	ND		5	0.38
Dimethyl phthalate	131-11-3	50	50	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	-		-	-	ND		5	1.8
Biphenyl	92-52-4			ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46	-		-	-	ND		2	0.46
4-Chloroaniline	106-47-8	5	5	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1	-		-	-	ND		5	1.1
2-Nitroaniline	88-74-4	5	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
3-Nitroaniline	99-09-2	5	5	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81	-		-	-	ND		5	0.81
4-Nitroaniline	100-01-6	5	5	ND		5	0.8	ND		5	0.8	ND		5	0.8	ND		5	0.8	ND		5	0.8	-		-	-	ND		5	0.8
Dibenzofuran	132-64-9			ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	-		-	-	ND		2	0.5
1,2,4,5-Tetrachlorobenzene	95-94-3	5	5	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44	-		-	-	ND		10	0.44
Acetophenone	98-86-2			ND		5	0.53	ND		5	0.53	ND		5	0.53	3.5	J	5	0.53	ND		5	0.53	-		-	-	ND		5	0.53
2,4,6-Trichlorophenol	88-06-2			ND		5	0.61	ND		5	0.61	ND		5	0.61	ND		5	0.61	ND		5	0.61	-		-	-	ND		5	0.61
p-Chloro-m-cresol	59-50-7			ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35	-		-	-	ND		2	0.35
2-Chlorophenol	95-57-8			ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48	-		-	-	ND		2	0.48
2,4-Dichlorophenol	120-83-2	1	2	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41	-		-	-	ND		5	0.41
2,4-Dimethylphenol	105-67-9	50	2	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	-		-	-	ND		5	1.8
2-Nitrophenol	88-75-5			ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85	-		-	-	ND		10	0.85
4-Nitrophenol	100-02-7			ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67	-		-	-	ND		10	0.67
2,4-Dinitrophenol	51-28-5	10	2	ND		20	6.6	ND		20	6.6	ND		20	6.6	ND		20	6.6	ND		20	6.6	-		-	-	ND		20	6.6
4,6-Dinitro-o-cresol	534-52-1			ND		10	1.8	ND		10	1.8	ND		10	1.8	ND		10	1.8	ND		10	1.8	-		-	-	ND		10	1.8
Phenol	108-95-2	1	2	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57	-		-	-	ND		5	0.57
2-Methylphenol	95-48-7			ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49	-		-	-	ND		5	0.49
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5			ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48	-		-	-	ND		5	0.48
2,4,5-Trichlorophenol	95-95-4			ND		5	0.77	ND		5	0.77	ND		5	0.77	ND		5	0.77	ND		5	0.77	-		-	-	ND		5	0.77
Benzoic Acid	65-85-0			ND		50	2.6	ND		50	2.6	ND		50	2.6	ND		50	2.6	ND		50	2.6	-		-	-	ND		50	2.6
Benzyl Alcohol	100-51-6			ND		2	0.59	ND		2	0.59	ND		2	0.59	ND		2	0.59	ND		2	0.59	-		-	-	ND		2	0.59
Carbazole	86-74-8			ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	-		-	-	ND		2	0.49
Total SVOCs				-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS-SIM																															
Acenaphthene	83-32-9	20	20	0.06	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
2-Chloronaphthalene	91-58-7	10	10	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	-		-	-	ND		0.2	0.02
Fluoranthene	206-44-0	50	50	0.42		0.1	0.02	0.03	J	0.1	0.02	0.03	J	0.1	0.02	0.04	J	0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Hexachlorobutadiene	87-68-3	0.5	0.5	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	-		-	-	ND		0.5	0.05
Naphthalene	91-20-3	10	10	ND		0.1	0.05	ND		0.1	0.05	ND		0.1	0.05	14		0.1	0.05	0.05	J	0.1	0.05	-		-	-	ND		0.1	0.05
Benzo(a)anthracene	56-55-3	0.002	0.002	0.05	J	0.1	0.02	0.02	J	0.1	0.02	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Benzo(a)pyrene	50-32-8	0	0	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Benzo(b)fluoranthene	205-99-2	0.002	0.002	0.02	J	0.1	0.01	0.01	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Benzo(k)fluoranthene	207-08-9	0.002	0.002	0.01	J	0.1	0.01	0.01	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Chrysene	218-01-9	0.002	0.002	0.05	J	0.1	0.01	0.02	J	0.1	0.01	0.02	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Acenaphthylene	208-96-8			0.07	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Anthracene	120-12-7	50	50	0.15		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	-		-	-	0.04	J	0.1	0.01
Benzo(ghi)perylene	191-24-2			ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Fluorene	86-73-7	50	50	0.17		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.03	J	0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Phenanthrene	85-01-8	50	50	0.14		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.12		0.1	0.02	ND		0.1	0.02	-		-	-	0.28		0.1	0.02
Dibenzo(a,h)anthracene	53-70-3			ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Pyrene	129-00-0	50	50	0.51		0.1	0.02	0.18		0.1	0.02	0.2		0.1	0.02	0.05	J	0.1	0.02	ND		0.1	0.02	-		-	-	0.03	J	0.1	0.02
2-Methylnaphthalene	91-57-6			ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.57		0.1	0.02	0.03	J	0.1	0.02	-		-	-	ND		0.1	0.02
Pentachlorophenol	87-86-5	1	2	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	0.07	J	0.8	0.01	ND		0.8	0.01	-		-	-	0.05	J	0.8	0.01
Hexachlorobenzene	118-74-1	0.04	0.04	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	-		-	-	ND		0.8	0.01
Hexachloroethane	67-72-1	5	5	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	-		-	-	ND		0.8	0.06

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
		NY-AWQS	NY-TOGS-GA																												
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
Total SVOCs				1.67	-	-	-	0.27	-	-	-	0.29	-	-	-	14.91	-	-	-	0.08	-	-	-	-	-	-	-	0.4	-	-	-
DISSOLVED METALS																															
Aluminum, Dissolved	7429-90-5		2000	15.4		10	3.27	4.62	J	10	3.27	20.3		10	3.27	4.24	J	10	3.27	ND		10	3.27	-		-	-	41.9		10	3.27
Antimony, Dissolved	7440-36-0	3	6	0.88	J	4	0.42	0.43	J	4	0.42	0.44	J	4	0.42	ND		4	0.42	0.71	J	4	0.42	-		-	-	ND		4	0.42
Arsenic, Dissolved	7440-38-2	25	50	0.32	J	0.5	0.16	0.73		0.5	0.16	0.73		0.5	0.16	0.35	J	0.5	0.16	ND		0.5	0.16	-		-	-	0.18	J	0.5	0.16
Barium, Dissolved	7440-39-3	1000	2000	40.76		0.5	0.17	82.86		0.5	0.17	89.31		0.5	0.17	99.52		0.5	0.17	ND		0.5	0.17	-		-	-	78.83		0.5	0.17
Beryllium, Dissolved	7440-41-7	3	3	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	-		-	-	ND		0.5	0.1
Cadmium, Dissolved	7440-43-9	5	10	0.06	J	0.2	0.05	0.06	J	0.2	0.05	ND		0.2	0.05	0.56		0.2	0.05	ND		0.2	0.05	-		-	-	1.73		0.2	0.05
Calcium, Dissolved	7440-70-2			155000		100	39.4	161000		100	39.4	162000		100	39.4	167000		100	39.4	45.4	J	100	39.4	-		-	-	136000		100	39.4
Chromium, Dissolved	7440-47-3	50	100	ND		1	0.17	ND		1	0.17	ND		1	0.17	ND		1	0.17	ND		1	0.17	-		-	-	ND		1	0.17
Cobalt, Dissolved	7440-48-4			1.08		0.5	0.16	0.83		0.5	0.16	0.91		0.5	0.16	5.01		0.5	0.16	ND		0.5	0.16	-		-	-	2.05		0.5	0.16
Copper, Dissolved	7440-50-8	200	1000	1.13		1	0.38	1.37		1	0.38	1.63		1	0.38	0.93	J	1	0.38	0.67	J	1	0.38	-		-	-	0.72	J	1	0.38
Iron, Dissolved	7439-89-6	300	600	30.3	J	50	19.1	ND		50	19.1	23.8	J	50	19.1	ND		50	19.1	ND		50	19.1	-		-	-	45.5	J	50	19.1
Lead, Dissolved	7439-92-1	25	50	ND		1	0.34	ND		1	0.34	ND		1	0.34	ND		1	0.34	ND		1	0.34	-		-	-	ND		1	0.34
Magnesium, Dissolved	7439-95-4	35000	35000	59300		70	24.2	54800		70	24.2	56900		70	24.2	85500		70	24.2	ND		70	24.2	-		-	-	44100		70	24.2
Manganese, Dissolved	7439-96-5	300	600	363.1		1	0.44	1115		1	0.44	1202		1	0.44	4170		1	0.44	ND		1	0.44	-		-	-	7454		1	0.44
Mercury, Dissolved	7439-97-6	0.7	1.4	0.42		0.2	0.09	0.41		0.2	0.09	0.37		0.2	0.09	0.36		0.2	0.09	ND		0.2	0.09	-		-	-	0.28		0.2	0.09
Nickel, Dissolved	7440-02-0	100	200	26.83		2	0.55	3.36		2	0.55	3.36		2	0.55	4.33		2	0.55	ND		2	0.55	-		-	-	5.39		2	0.55
Potassium, Dissolved	7440-09-7			6070		100	30.9	7140		100	30.9	7520		100	30.9	9040		100	30.9	ND		100	30.9	-		-	-	5450		100	30.9
Selenium, Dissolved	7782-49-2	10	20	ND		5	1.73	ND		5	1.73	ND		5	1.73	ND		5	1.73	ND		5	1.73	-		-	-	ND		5	1.73
Silver, Dissolved	7440-22-4	50	100	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	-		-	-	ND		0.4	0.16
Sodium, Dissolved	7440-23-5	20000		81300		100	29.3	79200		100	29.3	85000		100	29.3	274000		100	29.3	236		100	29.3	-		-	-	174000		100	29.3
Thallium, Dissolved	7440-28-0	0.5	0.5	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	-		-	-	ND		1	0.14
Vanadium, Dissolved	7440-62-2			3.61	J	5	1.57	2.22	J	5	1.57	2.35	J	5	1.57	ND		5	1.57	ND		5	1.57	-		-	-	ND		5	1.57
Zinc, Dissolved	7440-66-6	2000	5000	ND		10	3.41	ND		10	3.41	ND		10	3.41	9.62	J	10	3.41	ND		10	3.41	-		-	-	12.66		10	3.41
TOTAL METALS																															
Aluminum, Total	7429-90-5		2000	281		10	3.27	151		10	3.27	186		10	3.27	1570		10	3.27	ND		10	3.27	-		-	-	3960		10	3.27
Antimony, Total	7440-36-0	3	6	0.47	J	4	0.42	0.54	J	4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	-		-	-	ND		4	0.42
Arsenic, Total	7440-38-2	25	50	0.35	J	0.5	0.16	1.03		0.5	0.16	0.93		0.5	0.16	1.04		0.5	0.16	ND		0.5	0.16	-		-	-	1.38		0.5	0.16
Barium, Total	7440-39-3	1000	2000	45.84		0.5	0.17	87.87		0.5	0.17	93.1		0.5	0.17	113.9		0.5	0.17	0.35	J	0.5	0.17	-		-	-	117.6		0.5	0.17
Beryllium, Total	7440-41-7	3	3	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	-		-	-	0.28	J	0.5	0.1
Cadmium, Total	7440-43-9	5	10	0.07	J	0.2	0.05	ND		0.2	0.05	ND		0.2	0.05	0.52		0.2	0.05	ND		0.2	0.05	-		-	-	1.86		0.2	0.05
Calcium, Total	7440-70-2			156000		100	39.4	193000		100	39.4	175000		100	39.4	163000		100	39.4	66.2	J	100	39.4	-		-	-	148000		100	39.4
Chromium, Total	7440-47-3	50	100	1.16		1	0.17	0.84	J	1	0.17	0.85	J	1	0.17	3.96		1	0.17	0.22	J	1	0.17	-		-	-	9.15		1	0.17
Cobalt, Total	7440-48-4			1.7		0.5	0.16	1.11		0.5	0.16	1.18		0.5	0.16	7.23		0.5	0.16	ND		0.5	0.16	-		-	-	6.74		0.5	0.16
Copper, Total	7440-50-8	200	1000	3.27		1	0.38	2.59		1	0.38	2.81		1	0.38	6.83		1	0.38	0.48	J	1	0.38	-		-	-	12.46		1	0.38
Iron, Total	7439-89-6	300	600	681		50	19.1	488		50	19.1	428		50	19.1	3360		50	19.1	ND		50	19.1	-		-	-	7760		50	19.1
Lead, Total	7439-92-1	25	50	0.62	J	1	0.34	0.57	J	1	0.34	0.81	J	1	0.34	3.08		1	0.34	ND		1	0.34	-		-	-	6.16		1	0.34
Magnesium, Total	7439-95-4	35000	35000	63800		70	24.2	56600		70	24.2	52600		70	24.2	77600		70	24.2	ND		70	24.2	-		-	-	44500		70	24.2
Manganese, Total	7439-96-5	300	600	414.8		1	0.44	1190		1	0.44	1174		1	0.44	3491		1	0.44	ND		1	0.44	-		-	-	6551		1	0.44
Mercury, Total	7439-97-6	0.7	1.4	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	-		-	-	ND		0.2	0.09
Nickel, Total	7440-02-0	100	200	32.64		2	0.55	4.08		2	0.55	4.03		2	0.55	8.14		2	0.55	ND		2	0.55	-		-	-	12.78		2	0.55
Potassium, Total	7440-09-7			6400		100	30.9	8660		100	30.9	7960		100	30.9	9500		100	30.9	ND		100	30.9	-		-	-	7180		100	30.9
Selenium, Total	7782-49-2	10	20	ND		5	1.73	ND		5	1.73	ND		5	1.73	3.12	J	5	1.73	ND		5	1.73	-		-	-	6.13		5	1.73
Silver, Total	7440-22-4	50	100	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	-		-	-	ND		0.4	0.16
Sodium, Total	7440-23-5	20000		87400		100	29.3	83100		100	29.3	81300		100	29.3	243000		100	29.3	378		100	29.3	-		-	-	163000		100	29.3
Thallium, Total	7440-28-0	0.5	0.5	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	-		-	-	0.15	J	1	0.14
Vanadium, Total	7440-62-2			7.2		5	1.57	3.94	J	5	1.57	3.89	J	5	1.57	5.94		5	1.57	ND		5	1.57	-		-	-	14.89		5	1.57
Zinc, Total	7440-66-6	2000	5000	ND		10	3.41	ND		10	3.41	ND		10	3.41	20.75		10	3.41	ND		10	3.41	-		-	-	39.91		10	3.41
GENERAL CHEMISTRY																															
Nitrogen, Ammonia	7664-41-7			82		75	24	101		75	24	108		75	24	55	J	75	24	ND		75	24	-		-	-	98	J	150	48
Nitrogen, Nitrite	NONE	1000	2000	133		50	13	35	J	50	13	37	J	50	13	16	J	50	13	ND		50	13	-		-	-	139		50	13
Nitrogen, Nitrate	14797-55-8	10000	20000	417		100	22	218		100	22	216		100	22	35	J	100	22	ND		100	22	-		-	-	2260		100	22
Phosphorus, Total	7723-14-0			69		10	4	35		10	4	38		10	4	250		10	4	ND		10	4	-		-	-	431		50	20
Sulfate	14808-79-8	250000	500000	430000		120000	17000	320000		100000	14000	300000		100000	14000	100000		25000	3400	1500	J	10000	1400	-		-	-	95000		50000	6800
Total Organic Carbon	7440-44-0			2100		500	100	3500		1000	190	3500		1000	190	5400		2000	390	120	J	500	100	-		-	-	2800		1000	190

* Comparison is not performed on parameters with non-numeric criteria.

NY-AWQS: NY - New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
NY-TOGS-GA: NY - New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.

Appendix A
Report Limitations

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

Appendix B
Boring and Well Construction Logs

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-4D
SHEET: 1 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Todd Laderwager

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 8/2/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark
		0.0		54		0-0.5' - Concrete and sub-base (2" - concrete slab, 4" - sub-base).	1
					0.0		
					0.0	0.5-6.0' - Brown fine-medium SAND, no odors.	
					0.0		
					0.0		
5		5.0		42	0.0	6.0-7.0' - Brown-white fine-medium coarse SAND, little fine Gravel, no odors.	
					0.0		
					0.0	7.0-15.0' - Brown fine-medium SAND, trace SILT, fine Gravel, wet @ 8.5', no odors, no sheen, no staining.	
					0.0		
					0.0		
10		10.0		42	0.0		
					0.0		
					0.0		
					0.0		
					1.2		
					1.1		
15		15.0		42	8.3	15.0-20.0' - Brown fine-medium SAND, trace Silt and coarse Sand, wet, no odors, no sheen, no staining.	
					33.9		
					8.1		
					41.5		
					150.6		
					56.4		
					176.4		
					94.5		
20		20.0		42	86.7	20.0-23.0' - Brown fine-medium SAND, trace coarse Sand, wet, no odors, no sheen, no staining.	
					241.9		
					101.5		
					86.4		
					64.7	23.0-24.0' - Brown fine SAND, trace coarse and medium Sand, wet, no odors, no sheen, no staining.	
					99.4		
					31.5		
25					98.7		

Elev. (ft.)	Stratum Description	Depth (ft.)
	CONCRETE	0.5
	SAND	
	SAND AND SILT	24

Equipment Installed:
- Grout (Bentonite hole plug 3/8", 0-13.0 ft bgs)
- Riser (Sch 40 2-Inch Diameter PVC, 0-15.0 ft bgs)
- Sand (#2 Morie,

REMARKS

1 - Well Development: A total of 22-gallons of water was purged from MW-4D at a rate of <1.0-gallons per minute for 27 minutes using a sumbersible pump. Development water was purged to a 55-gallon steel drum.
Well Completion: MW-4D was installed with a casing manhole that is flush to the ground surface.
Well Survey: Well location was surveyed by DPK Consulting LLC.
Well PVC Casing Elevation: ft, msl. (Needs Survey Data)

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-4D

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-4D
SHEET: 2 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Todd Laderwager

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 8/2/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
		25.0		35	78.4	24.0-25.0' - Gray fine SAND and SILT, wet, no odors, no sheen, no staining.					13.0-35.0 ft bgs) Screen (0.010" Slotted 2-Inch Diameter PVC, 15.0-35.0 ft bgs)
					16.7						
					20.2	25.0-28.0' - Gray fine SAND and SILT, trace Clay, wet, no odors, no sheen, no staining.					
					65.7						
					110.5				SAND AND SILT		
					122.7						
					43.3	28.0-29.0' - Brown fine SAND and SILT, trace fine Gravel and Cobbles, wet, no odors, no sheen, no staining.				29	
30					79.3						
		30.0		24	70.3						
					98.4	29.0-30.0' - White SILT, trace fine Sand, wet, no odors, no sheen, no staining.					
					224.1						
					88.7	30.0-35.0' - White SILT, trace fine Sand and fine Gravel. slightly moist, no oodors, no staining.			SILT		
					94.3						
					129.3						
					399.4						
35					272.3					35	
					357.4	End of exploration at 35 feet.					
					322.4						
					434.5						
					801.5						
					657.5						
					698.2						
					160.2						
40					312.4						
					192.7						
					144.6						
45											
50											

REMARKS

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-4D

GZA TEMPLATE MONITORING WELL LOG; 8/18/2023; 2:33:30 PM

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-6
SHEET: 1 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Rajiv Singh

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 7/31/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
4/26/23	12:23		24.90	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark
0		0.0		27	0.5	0-0.5' - Asphalt and sub-base.	1
					0.3	0.5-5.0' - Fill. Brown fine-medium-coarse SAND, little fine Gravel and asphalt, trace Cobbles and glass, no odors.	
					2.2		
					1.2		
					0.2		
					0.2		
					0.1		
5		5.0		18	0.2	5.0-9.0' - Fill. Brown fine-medium SAND, trace fine Gravel, brick, tile, coal and glass, no odors.	
					0.2		
					0.2		
					0.0	9.0-10.0' - Brown fine-medium SAND, trace fine Gravel, wet @ 9.0', no odors, no sheen.	
					0.0		
					0.0		
					0.0		
10		10.0		48	0.0	10.0-21.5' - Brown fine-medium SAND, trace coarse Sand, wet, no odors, no sheen.	
					0.0		
					0.0		
					0.2		
					0.2		
					0.1		
15		15.0		46	0.2		
					0.1		
					0.1		
					0.2		
					0.1		
					0.5		
					0.2		
					0.2		
20		20.0		60	0.2	21.5-22.5' - Brown fine-medium SAND, little Silt, wet, no odors, no sheen.	
					0.2		
					0.2		
					0.2	22.5-24.5' - Brown SILT, some fine Sand, wet, no odors, no sheen.	
					0.2		
					0.1		
					0.0	24.5-25.0' - Gray-brown CLAY, little Silt, trace fine Gravel, wet, no odors, no sheen.	
25					0.0		

Elev. (ft.)	Stratum Description	Depth (ft.)
	ASPHALT	0.5
	FILL	9
	SAND	22.5
	SILT AND SAND	24.5

Equipment Installed:
- Grout (Bentonite hole plug 3/8", 0-13.0 ft bgs)
- Riser (Sch 40 2-Inch Diameter PVC, 0-15.0 ft bgs)
- Sand (#2 Morie,

REMARKS

1 - Well Development: A total of 28-gallons of water was purged from MW-6 at a rate of <1.0-gallons per minute for 35 minutes using a sumbersible pump. Development water was purged to a 55-gallon steel drum.
Well Completion: MW-6 was installed with a casing manhole that is flush to the ground surface.
Well Survey: Well location was surveyed by DPK Consulting LLC.
Well PVC Casing Elevation: ft, msl. (Needs Survey Data)

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-6

MONITORING WELL LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*	**The Rimani Group** **40-50 Commercial Street** **40-50 Commercial Street** **Brooklyn, NY**	**EXPLORATION NO.:** MW-6 **SHEET:** 2 of 2 **PROJECT NO:** 12.0077448.00 **REVIEWED BY:** RJ

Logged By: P. McDonnell **Drilling Co.:** ADT **Foreman:** Rajiv Singh	**Well Location:** N E **Ground Surface Elev. (ft.):** **Final Well Depth (ft.):** 35 **Date Start - Finish:** 7/31/2023 - 8/3/2023	**H. Datum:** NJ State Plane Coord Grid NAD 83 **V. Datum:** NAVD 88
Type of Rig: Geoprobe **Rig Model:** 7822DT **Drilling Method:** HSA	**Sampler Type:** **Sampler O.D. (in.):** **Sampler Length (in.):** **Rock Core Size:**	

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
4/26/23	12:23		24.90	

Depth (ft)	Sample No.	Sample Depth (ft.)	Sample Pen. (in.)	Sample Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
		25.0		42	0.3	25.0-27.0' - Gray-brown CLAY, little Silt, trace fine Gravel and Cobbles, wet, no odors, no sheen.			SILTY CLAY		13.0-35.0 ft bgs) Screen (0.010" Slotted 2-Inch Diameter PVC, 15.0-35.0 ft bgs)
					0.0				SILTY CLAY		
					0.0					27	
					0.0	27.0-30.0' - Red-brown-white SILT, trace fine Sand, dry, no odors.					
					0.0						
					0.0						
30					0.0						
		30.0		26	0.0	30.0-32.0' - Red-brown-white SILT, trace fine Sand, slight moisture, no odors.			SILT		
					0.0						
					0.0	32.0-35.0' - Brown-white SILT, slight moisture, no odors.					
					0.0						
					0.0						
35										35	
					0.0	End of exploration at 35 feet.					
40											
45											
50											

REMARKS

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-6

GZA TEMPLATE MONITORING WELL LOG; 8/18/2023; 2:33:31 PM

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-7
SHEET: 1 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Rajiv Singh

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 7/31/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

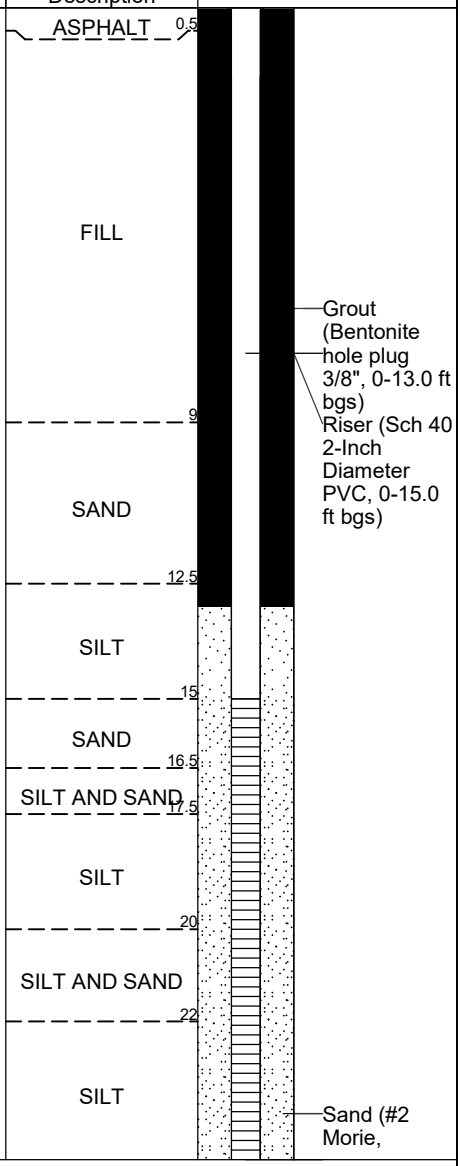
Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark
		0.0		39	0.0	0-0.5' - Asphalt and sub-base.	1
					0.0		
					0.8	0.5-7.5' - Fill. Brown-tan fine-medium SAND, little fine Gravel and brick, trace asphalt, concrete and coal, no odors.	
					0.2		
					0.3		
					0.3		
					0.4		
5		5.0		35	0.1	7.5-9.0' - Fill. Gray-black fine-medium-coarse SAND, little Silt, trace brick, coal and glass, wet @ 7.5', trace black staining, slight petroleum odor, no sheen.	
					0.0		
					0.0		
					0.2		
					0.4		
					0.4	9.0-11.0' - Gray-brown fine-medium SAND, wet, slight petroleum odor @ 9-9.5', no odors @ 9.5-11', no staining, no sheen.	
					0.8		
10		10.0		30	22.4	11.0-12.5' - Brown fine-medium SAND, trace Silt and coarse Sand, wet, no odors, no sheen.	
					24.8		
					16.3		
					44.6		
					46.9	12.5-15.0' - Brown SILT, little fine Gravel and fine Sand, trace Cobbles and Clay, wet, no odors, no sheen.	
					10.7		
					1.8		
					1.4		
					0.2		
15		15.0		42	0.4	15.0-16.5' - Brown fine-medium SAND, trace fine Gravel, wet, no odors, no sheen.	
					3.6		
					0.7		
					3.8	16.5-17.5' - Brown-gray SILT and fine SAND, wet, no odors, no sheen.	
					4.2		
					1.2		
					0.5	17.5-20.0 - Gray-brown SILT, little fine Sand, trace coarse Sand and fine Gravel, wet, no odors, no sheen.	
					0.2		
20		20.0		36	0.1		
					0.5	20.0-21.0' - Brown-gray fine SAND and SILT, wet, no odors, no sheen.	
					0.0		
					0.0		
					0.0	21.0-22.0' - Red-brown fine-medium-coarse SAND and SILT, trace Cobbles, wet, no odors, no sheen.	
					0.0		
					0.0		
25					0.0		



REMARKS

1 - Well Development: A total of 25-gallons of water was purged from MW-7 at a rate of <1.0-gallons per minute for 32 minutes using a sumbersible pump. Development water was purged to a 55-gallon steel drum.
Well Completion: MW-7 was installed with a casing manhole that is flush to the ground surface.
Well Survey: Well location was surveyed by DPK Consulting LLC.
Well PVC Casing Elevation: ft, msl. (Needs Survey Data)

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-7

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-7
SHEET: 2 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Rajiv Singh

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 7/31/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
		25.0		36	0.0	22.0-30.0' - Red-brown-gray-white SILT, trace coarse Sand, slightly moist, no odors.					13.0-35.0 ft bgs) Screen (0.010" Slotted 2-Inch Diameter PVC, 15.0-35.0 ft bgs)
					0.0						
					0.5						
					0.0						
					0.0						
					0.0						
					0.0						
30					0.0						
		30.0		30	0.0	30.0-35.0' - Red-brown-white-tan SILT, trace coarse Sand, moderate moisture, no odors, no sheen.			SILT		
					0.0						
					0.0						
					0.0						
35					0.0					35	
					0.0	End of exploration at 35 feet.					
40											
45											
50											

REMARKS

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-7

GZA TEMPLATE MONITORING WELL LOG; 8/18/2023; 2:33:33 PM

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-8
SHEET: 1 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Todd Laderwager

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 8/2/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
		0.0		0		0-0.5' - Concrete (Sidewalk-6"), Hand Cleared 0-5'.	1		CONCRETE	0.5	
					0.0						
					0.0	0.5-5.0' - Fill. Brown-tan fine-medium SAND, trace coarse Sand and fine Gravel, no odors.			FILL		
					0.0						
					0.0						
5										5	
		5.0		40	0.0	5.0-10.0' - Brown fine-medium SAND, trace coarse Sand, Silt and fine Gravel, wet @ 9.0', no odors, no sheen.					Grout (Bentonite hole plug 3/8", 0-13.0 ft bgs)
					0.0						
					0.1						
					0.2						
					0.1						
					0.0						
					0.1						Riser (Sch 40 2-Inch Diameter PVC, 0-15.0 ft bgs)
10					0.0						
		10.0		48	0.1	10.0-15.0' - Brown fine-medium SAND, trace coarse Sand, wet, no odors @ 10-13', moderate paint thinner-sweet odor @ 13-15', no sheen, no staining.					
					0.0						
					0.1						
					0.1						
					0.7						
					1.1						
					9.0						
15											
		15.0		60	185.7	15.0-18.0' - Brown fine-medium SAND, wet, moderate paint thinner-sweet odor, no staining, no sheen.			SAND		
					588.7						
					583.4						
					677.4						
					386.4	18.0-20.5' - Brown fine-medium SAND, trace Silt, wet, slight paint thinner-sweet odor, no staining, no sheen.					
					170.5						
					188.4						
					94.7						
20											
		20.0		35	528.2	20.5-28.0' - Gray-brown fine SAND, little Silt, wet, moderate paint thinner-sweet odor, no staining, no sheen.					
					383.4						
					1654						
					600.2						
					162.4						
					215.7						
					245.5						Sand (#2 Morie,
25					76.8						

REMARKS

1 - Well Development: A total of 41-gallons of water was purged from MW-8 at a rate of <1.0-gallons per minute for 52 minutes using a sumbersible pump. Development water was purged to a 55-gallon steel drum.
Well Completion: MW-8 was installed with a casing manhole that is flush to the ground surface.
Well Survey: Well location was surveyed by DPK Consulting LLC.
Well PVC Casing Elevation: ft, msl. (Needs Survey Data)

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-8

GZA TEMPLATE MONITORING WELL LOG; 8/18/2023; 2:33:34 PM

MONITORING WELL LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

The Rimani Group
40-50 Commercial Street
40-50 Commercial Street
Brooklyn, NY

EXPLORATION NO.: MW-8
SHEET: 2 of 2
PROJECT NO: 12.0077448.00
REVIEWED BY: RJ

Logged By: P. McDonnell
Drilling Co.: ADT
Foreman: Todd Laderwager

Well Location: N E
Ground Surface Elev. (ft.):
Final Well Depth (ft.): 35
Date Start - Finish: 8/2/2023 - 8/3/2023

H. Datum: NJ State Plane Coord Grid NAD 83
V. Datum: NAVD 88

Type of Rig: Geoprobe
Rig Model: 7822DT
Drilling Method: HSA

Sampler Type:
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in.)	Rec. (in.)	PID (ppm)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
		25.0		26	805.4	28.0-29.0' - Brown fine SAND and SILT, little medium Sand, Cobbles and fine Gravel, wet, slight paint thinner-sweet odor, no staining, no sheen.			SAND		13.0-35.0 ft bgs) Screen (0.010" Slotted 2-Inch Diameter PVC, 15.0-35.0 ft bgs)
					385.1						
					569.2						
					733.7						
					1075						
					455.5	29.0-30.0 - Red-brown-gray-white SILT, trace fine Gravel, wet, no odors.				28	
					823.7				SAND AND SILT	29	
					854.7						
30		30.0		36	729.7	30.0-35.0' - White-gray-brown SILT, trace fine Sand and fine Gravel, slight moisture, no odor, no staining, no sheen.					
					567.4						
					360.4						
					560.7				SILT		
					192.2						
					285.1						
					344.7						
35					295.1					35	
					213.4	End of exploration at 35 feet.					
					302.5						
					150.7						
					444.3						
					557.2						
					746.2						
					1811						
40					315.2						
					589.2						
					670.0						
					450.0						
					175.4						
45											
50											

REMARKS

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-8

GZA TEMPLATE MONITORING WELL LOG; 8/18/2023; 2:33:34 PM

Appendix C
Slug Test Data

TABLE 1
SUMMARY OF SLUG TEST ANALYSES
50 Commercial Street
Brooklyn, NY

Well Name	**MW-4D**						**MW-6**						**MW-7**						**MW-8**					
Test Number	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3[1]	Test 1	Test 2	Test 3[1]	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3
Test Type	Falling	Falling	Falling	Rising	Rising	Rising	Falling	Falling	Falling	Rising	Rising	Rising	Falling	Falling	Falling	Rising	Rising	Rising	Falling	Falling	Falling	Rising	Rising	Rising
Water Within Well Screen	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Test Date	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023	8/17/2023
H(O) (ft)	2.31	2.05	2.30	2.69	2.65	2.76	2.66	2.73	2.45	2.72	2.67	2.71	2.68	2.81	2.69	2.74	2.68	2.60	2.67	2.64	2.69	2.71	2.89	2.83
H (ft)	24.92	24.92	24.92	24.92	24.92	24.92	26.50	26.50	26.50	26.50	26.50	26.50	25.15	25.15	25.15	25.15	25.15	25.15	23.45	23.45	23.45	23.45	23.45	23.45
b (ft)	90.25	90.25	90.25	90.25	90.25	90.25	91.50	91.50	91.50	91.50	91.50	91.50	90.15	90.15	90.15	90.15	90.15	90.15	88.45	88.45	88.45	88.45	88.45	88.45
Kv/Kh	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
d (ft)	5.25	5.25	5.25	5.25	5.25	5.25	6.5	6.5	6.5	6.5	6.5	6.5	5.15	5.15	5.15	5.15	5.15	5.15	3.45	3.45	3.45	3.45	3.45	3.45
L (ft)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
T (ft)	19.18	19.18	19.18	19.18	19.18	19.18	21.58	21.58	21.58	21.58	21.58	21.58	21.16	21.16	21.16	21.16	21.16	21.16	19.63	19.63	19.63	19.63	19.63	19.63
rc (ft)	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
rw (ft)	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
rsk (ft)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
ne	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ho* (ft)	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81	2.81
Vslug (cubic feet)	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
Kh (cm/s)	5.0E-05	5.208-5	7.2E-05	3.6E-05	4.0E-05	3.4E-05	2.3E-05	1.8E-05	1.7E-05	1.5E-05	1.5E-05	9.5E-06	6.6E-05	5.2E-05	4.1E-05	6.6E-05	6.6E-05	5.0E-05	6.6E-05	3.3E-05	2.6E-05	4.8E-05	4.8E-05	4.3E-05
Kh Rising/Falling Geo. Mean (cm/s)	6.0E-05			3.7E-05			2.0E-05			1.5E-05			5.2E-05			6.0E-05			3.8E-05			4.6E-05	
Kh Well Geometric Mean (cm/s)	**4.5E-05**						**1.7E-05**						**5.6E-05**						**4.2E-05**					

Notes:
1) Insufficient data collected. K values not used in calculating geometric means.

Appendix D
Analytical Laboratory Data

ANALYTICAL REPORT

Lab Number:	L2346742
Client:	GZA GeoEnvironmental, Inc. 55 Lane Road Suite 407 Fairfield, NJ 07004
ATTN:	Robert Jackson
Phone:	(973) 527-7451
Project Name:	COMMERCIAL STREET
Project Number:	12.0077448.09
Report Date:	09/05/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2346742-01	MW-6	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 11:00	08/11/23
L2346742-02	MW-7	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 13:30	08/11/23
L2346742-03	MW-701	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 13:40	08/11/23
L2346742-04	MW-8	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 18:20	08/11/23
L2346742-05	EQUIP/FIELD BLANK	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 11:40	08/11/23
L2346742-06	TRIP BLANK	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 00:00	08/11/23
L2346742-07	MW-4D	WATER	50 COMMERCIAL STREET, BROOKLYN, NY	08/10/23 11:30	08/11/23

Project Name:	COMMERCIAL STREET	**Lab Number:**	L2346742
Project Number:	12.0077448.09	**Report Date:**	09/05/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: COMMERCIAL STREET **Lab Number:** L2346742
Project Number: 12.0077448.09 **Report Date:** 09/05/23

Case Narrative (continued)

Report Submission
September 05, 2023: This final report includes the results of all requested analyses.
August 21, 2023: This is a preliminary report.

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

Semivolatile Organics
The surrogate recoveries for the WG1815494-1 Method Blank, associated with L2346742-04, -05, and -07, are below the acceptance criteria for 2-fluorophenol (5%) and phenol-d6 (7%). The associated samples are non-detect and have acceptable surrogate recoveries; therefore, no further actions were taken.
The WG1816307-2 LCS recovery, associated with L2346742-01 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.

1,4-Dioxane by 8270-SIM
L2346742-04D: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Perfluorinated Alkyl Acids by 1633
L2346742-01, -04, and -07: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals
L2346742-05: The Equipment/Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.
The WG1815505-3 MS recoveries for calcium (0%), magnesium (44%), and sodium (0%), performed on

Project Name:	COMMERCIAL STREET	**Lab Number:**	L2346742
Project Number:	12.0077448.09	**Report Date:**	09/05/23

Case Narrative (continued)

L2346742-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

Dissolved Metals

L2346742-05: The Equipment/Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1815688-3 MS recovery for calcium (130%), performed on L2346742-01, does not apply because the sample concentration is greater than four times the spike amount added.

Nitrogen, Ammonia

L2346742-07: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/05/23

ORGANICS

VOLATILES

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 11:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/14/23 10:33
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.36	J	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	0.14	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.29	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	140		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	0.91	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	16		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	16		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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 D
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/14/23 10:59
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	1.1	J	ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
1,3-Dichloropropene, Total	ND		ug/l	2.5	0.72	5
1,1-Dichloropropene	ND		ug/l	12	3.5	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	1.5	J	ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	2.1	J	ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 D Date Collected: 08/10/23 13:30

Client ID: MW-7 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	910		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
Xylenes, Total	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	260		ug/l	12	3.5	5
1,2-Dichloroethene, Total	260		ug/l	12	3.5	5
Dibromomethane	ND		ug/l	25	5.0	5
1,2,3-Trichloropropane	ND		ug/l	12	3.5	5
Acrylonitrile	ND		ug/l	25	7.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
Vinyl acetate	ND		ug/l	25	5.0	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
2,2-Dichloropropane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,3-Dichloropropane	ND		ug/l	12	3.5	5
1,1,1,2-Tetrachloroethane	ND		ug/l	12	3.5	5
Bromobenzene	ND		ug/l	12	3.5	5
n-Butylbenzene	ND		ug/l	12	3.5	5
sec-Butylbenzene	ND		ug/l	12	3.5	5
tert-Butylbenzene	ND		ug/l	12	3.5	5
o-Chlorotoluene	ND		ug/l	12	3.5	5
p-Chlorotoluene	ND		ug/l	12	3.5	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Hexachlorobutadiene	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
p-Isopropyltoluene	ND		ug/l	12	3.5	5
Naphthalene	ND		ug/l	12	3.5	5

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 D Date Collected: 08/10/23 13:30

Client ID: MW-7 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,3,5-Trimethylbenzene	ND		ug/l	12	3.5	5
1,2,4-Trimethylbenzene	ND		ug/l	12	3.5	5
1,4-Dioxane	ND		ug/l	1200	300	5
p-Diethylbenzene	ND		ug/l	10	3.5	5
p-Ethyltoluene	ND		ug/l	10	3.5	5
1,2,4,5-Tetramethylbenzene	ND		ug/l	10	2.7	5
Ethyl ether	ND		ug/l	12	3.5	5
trans-1,4-Dichloro-2-butene	ND		ug/l	12	3.5	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 D
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/14/23 11:26
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	1.6	J	ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	2.0	J	ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 D Date Collected: 08/10/23 13:40

Client ID: MW-701 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	860		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	220		ug/l	25	7.0	10
1,2-Dichloroethene, Total	220		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 D Date Collected: 08/10/23 13:40

Client ID: MW-701 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 D
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/14/23 12:18
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5000	1400	2000
1,1-Dichloroethane	ND		ug/l	5000	1400	2000
Chloroform	ND		ug/l	5000	1400	2000
Carbon tetrachloride	ND		ug/l	1000	270	2000
1,2-Dichloropropane	ND		ug/l	2000	270	2000
Dibromochloromethane	ND		ug/l	1000	300	2000
1,1,2-Trichloroethane	ND		ug/l	3000	1000	2000
Tetrachloroethene	450	J	ug/l	1000	360	2000
Chlorobenzene	ND		ug/l	5000	1400	2000
Trichlorofluoromethane	ND		ug/l	5000	1400	2000
1,2-Dichloroethane	ND		ug/l	1000	260	2000
1,1,1-Trichloroethane	ND		ug/l	5000	1400	2000
Bromodichloromethane	ND		ug/l	1000	380	2000
trans-1,3-Dichloropropene	ND		ug/l	1000	330	2000
cis-1,3-Dichloropropene	ND		ug/l	1000	290	2000
1,3-Dichloropropene, Total	ND		ug/l	1000	290	2000
1,1-Dichloropropene	ND		ug/l	5000	1400	2000
Bromoform	ND		ug/l	4000	1300	2000
1,1,2,2-Tetrachloroethane	ND		ug/l	1000	330	2000
Benzene	ND		ug/l	1000	320	2000
Toluene	ND		ug/l	5000	1400	2000
Ethylbenzene	ND		ug/l	5000	1400	2000
Chloromethane	ND		ug/l	5000	1400	2000
Bromomethane	ND		ug/l	5000	1400	2000
Vinyl chloride	600	J	ug/l	2000	140	2000
Chloroethane	ND		ug/l	5000	1400	2000
1,1-Dichloroethene	ND		ug/l	1000	340	2000
trans-1,2-Dichloroethene	ND		ug/l	5000	1400	2000

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 D Date Collected: 08/10/23 18:20

Client ID: MW-8 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	270000		ug/l	1000	350	2000
1,2-Dichlorobenzene	ND		ug/l	5000	1400	2000
1,3-Dichlorobenzene	ND		ug/l	5000	1400	2000
1,4-Dichlorobenzene	ND		ug/l	5000	1400	2000
Methyl tert butyl ether	ND		ug/l	5000	1400	2000
p/m-Xylene	ND		ug/l	5000	1400	2000
o-Xylene	ND		ug/l	5000	1400	2000
Xylenes, Total	ND		ug/l	5000	1400	2000
cis-1,2-Dichloroethene	33000		ug/l	5000	1400	2000
1,2-Dichloroethene, Total	33000		ug/l	5000	1400	2000
Dibromomethane	ND		ug/l	10000	2000	2000
1,2,3-Trichloropropane	ND		ug/l	5000	1400	2000
Acrylonitrile	ND		ug/l	10000	3000	2000
Styrene	ND		ug/l	5000	1400	2000
Dichlorodifluoromethane	ND		ug/l	10000	2000	2000
Acetone	ND		ug/l	10000	2900	2000
Carbon disulfide	ND		ug/l	10000	2000	2000
2-Butanone	ND		ug/l	10000	3900	2000
Vinyl acetate	ND		ug/l	10000	2000	2000
4-Methyl-2-pentanone	ND		ug/l	10000	2000	2000
2-Hexanone	ND		ug/l	10000	2000	2000
Bromochloromethane	ND		ug/l	5000	1400	2000
2,2-Dichloropropane	ND		ug/l	5000	1400	2000
1,2-Dibromoethane	ND		ug/l	4000	1300	2000
1,3-Dichloropropane	ND		ug/l	5000	1400	2000
1,1,1,2-Tetrachloroethane	ND		ug/l	5000	1400	2000
Bromobenzene	ND		ug/l	5000	1400	2000
n-Butylbenzene	ND		ug/l	5000	1400	2000
sec-Butylbenzene	ND		ug/l	5000	1400	2000
tert-Butylbenzene	ND		ug/l	5000	1400	2000
o-Chlorotoluene	ND		ug/l	5000	1400	2000
p-Chlorotoluene	ND		ug/l	5000	1400	2000
1,2-Dibromo-3-chloropropane	ND		ug/l	5000	1400	2000
Hexachlorobutadiene	ND		ug/l	5000	1400	2000
Isopropylbenzene	ND		ug/l	5000	1400	2000
p-Isopropyltoluene	ND		ug/l	5000	1400	2000
Naphthalene	ND		ug/l	5000	1400	2000

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 D Date Collected: 08/10/23 18:20

Client ID: MW-8 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	5000	1400	2000
1,2,3-Trichlorobenzene	ND		ug/l	5000	1400	2000
1,2,4-Trichlorobenzene	ND		ug/l	5000	1400	2000
1,3,5-Trimethylbenzene	ND		ug/l	5000	1400	2000
1,2,4-Trimethylbenzene	ND		ug/l	5000	1400	2000
1,4-Dioxane	ND		ug/l	500000	120000	2000
p-Diethylbenzene	ND		ug/l	4000	1400	2000
p-Ethyltoluene	ND		ug/l	4000	1400	2000
1,2,4,5-Tetramethylbenzene	ND		ug/l	4000	1100	2000
Ethyl ether	ND		ug/l	5000	1400	2000
trans-1,4-Dichloro-2-butene	ND		ug/l	5000	1400	2000

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 11:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/13/23 18:28
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, 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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-06
Client ID: TRIP BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 00:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/13/23 18:50
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-06 Date Collected: 08/10/23 00:00

Client ID: TRIP BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, 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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-06 Date Collected: 08/10/23 00:00

Client ID: TRIP BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 D
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/14/23 11:52
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	250	70.	100
1,1-Dichloroethane	ND		ug/l	250	70.	100
Chloroform	ND		ug/l	250	70.	100
Carbon tetrachloride	ND		ug/l	50	13.	100
1,2-Dichloropropane	ND		ug/l	100	14.	100
Dibromochloromethane	ND		ug/l	50	15.	100
1,1,2-Trichloroethane	ND		ug/l	150	50.	100
Tetrachloroethene	ND		ug/l	50	18.	100
Chlorobenzene	ND		ug/l	250	70.	100
Trichlorofluoromethane	ND		ug/l	250	70.	100
1,2-Dichloroethane	ND		ug/l	50	13.	100
1,1,1-Trichloroethane	ND		ug/l	250	70.	100
Bromodichloromethane	ND		ug/l	50	19.	100
trans-1,3-Dichloropropene	ND		ug/l	50	16.	100
cis-1,3-Dichloropropene	ND		ug/l	50	14.	100
1,3-Dichloropropene, Total	ND		ug/l	50	14.	100
1,1-Dichloropropene	ND		ug/l	250	70.	100
Bromoform	ND		ug/l	200	65.	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	17.	100
Benzene	ND		ug/l	50	16.	100
Toluene	ND		ug/l	250	70.	100
Ethylbenzene	ND		ug/l	250	70.	100
Chloromethane	ND		ug/l	250	70.	100
Bromomethane	ND		ug/l	250	70.	100
Vinyl chloride	120		ug/l	100	7.1	100
Chloroethane	ND		ug/l	250	70.	100
1,1-Dichloroethene	17	J	ug/l	50	17.	100
trans-1,2-Dichloroethene	ND		ug/l	250	70.	100

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 D Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	9200		ug/l	50	18.	100
1,2-Dichlorobenzene	ND		ug/l	250	70.	100
1,3-Dichlorobenzene	ND		ug/l	250	70.	100
1,4-Dichlorobenzene	ND		ug/l	250	70.	100
Methyl tert butyl ether	ND		ug/l	250	70.	100
p/m-Xylene	ND		ug/l	250	70.	100
o-Xylene	ND		ug/l	250	70.	100
Xylenes, Total	ND		ug/l	250	70.	100
cis-1,2-Dichloroethene	4300		ug/l	250	70.	100
1,2-Dichloroethene, Total	4300		ug/l	250	70.	100
Dibromomethane	ND		ug/l	500	100	100
1,2,3-Trichloropropane	ND		ug/l	250	70.	100
Acrylonitrile	ND		ug/l	500	150	100
Styrene	ND		ug/l	250	70.	100
Dichlorodifluoromethane	ND		ug/l	500	100	100
Acetone	ND		ug/l	500	150	100
Carbon disulfide	ND		ug/l	500	100	100
2-Butanone	ND		ug/l	500	190	100
Vinyl acetate	ND		ug/l	500	100	100
4-Methyl-2-pentanone	ND		ug/l	500	100	100
2-Hexanone	ND		ug/l	500	100	100
Bromochloromethane	ND		ug/l	250	70.	100
2,2-Dichloropropane	ND		ug/l	250	70.	100
1,2-Dibromoethane	ND		ug/l	200	65.	100
1,3-Dichloropropane	ND		ug/l	250	70.	100
1,1,1,2-Tetrachloroethane	ND		ug/l	250	70.	100
Bromobenzene	ND		ug/l	250	70.	100
n-Butylbenzene	ND		ug/l	250	70.	100
sec-Butylbenzene	ND		ug/l	250	70.	100
tert-Butylbenzene	ND		ug/l	250	70.	100
o-Chlorotoluene	ND		ug/l	250	70.	100
p-Chlorotoluene	ND		ug/l	250	70.	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	70.	100
Hexachlorobutadiene	ND		ug/l	250	70.	100
Isopropylbenzene	ND		ug/l	250	70.	100
p-Isopropyltoluene	ND		ug/l	250	70.	100
Naphthalene	ND		ug/l	250	70.	100

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 D Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	250	70.	100
1,2,3-Trichlorobenzene	ND		ug/l	250	70.	100
1,2,4-Trichlorobenzene	ND		ug/l	250	70.	100
1,3,5-Trimethylbenzene	ND		ug/l	250	70.	100
1,2,4-Trimethylbenzene	ND		ug/l	250	70.	100
1,4-Dioxane	ND		ug/l	25000	6100	100
p-Diethylbenzene	ND		ug/l	200	70.	100
p-Ethyltoluene	ND		ug/l	200	70.	100
1,2,4,5-Tetramethylbenzene	ND		ug/l	200	54.	100
Ethyl ether	ND		ug/l	250	70.	100
trans-1,4-Dichloro-2-butene	ND		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/13/23 12:04
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1815630-5					
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/13/23 12:04
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1815630-5					
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/13/23 12:04
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1815630-5					
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	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/14/23 09:13
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,07 Batch: WG1817073-5					
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/14/23 09:13
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,07 Batch: WG1817073-5					
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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/14/23 09:13
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,07 Batch: WG1817073-5					
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	91		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1815630-3 WG1815630-4								
Methylene chloride	90		93		70-130	3		20
1,1-Dichloroethane	94		96		70-130	2		20
Chloroform	94		98		70-130	4		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	93		95		70-130	2		20
Dibromochloromethane	91		93		63-130	2		20
1,1,2-Trichloroethane	90		95		70-130	5		20
Tetrachloroethene	92		94		70-130	2		20
Chlorobenzene	91		94		75-130	3		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	92		95		70-130	3		20
1,1,1-Trichloroethane	94		98		67-130	4		20
Bromodichloromethane	92		95		67-130	3		20
trans-1,3-Dichloropropene	90		93		70-130	3		20
cis-1,3-Dichloropropene	91		94		70-130	3		20
1,1-Dichloropropene	93		97		70-130	4		20
Bromoform	86		91		54-136	6		20
1,1,2,2-Tetrachloroethane	90		95		67-130	5		20
Benzene	94		96		70-130	2		20
Toluene	92		94		70-130	2		20
Ethylbenzene	91		94		70-130	3		20
Chloromethane	98		99		64-130	1		20
Bromomethane	85		94		39-139	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1815630-3 WG1815630-4								
Vinyl chloride	110		120		55-140	9		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	94		96		61-145	2		20
trans-1,2-Dichloroethene	94		96		70-130	2		20
Trichloroethene	92		96		70-130	4		20
1,2-Dichlorobenzene	91		97		70-130	6		20
1,3-Dichlorobenzene	92		97		70-130	5		20
1,4-Dichlorobenzene	92		96		70-130	4		20
Methyl tert butyl ether	87		90		63-130	3		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	92		95		70-130	3		20
Dibromomethane	90		94		70-130	4		20
1,2,3-Trichloropropane	87		93		64-130	7		20
Acrylonitrile	89		93		70-130	4		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	100		100		58-148	0		20
Carbon disulfide	98		100		51-130	2		20
2-Butanone	93		94		63-138	1		20
Vinyl acetate	93		92		70-130	1		20
4-Methyl-2-pentanone	84		87		59-130	4		20
2-Hexanone	84		87		57-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1815630-3 WG1815630-4								
Bromochloromethane	92		96		70-130	4		20
2,2-Dichloropropane	96		97		63-133	1		20
1,2-Dibromoethane	91		93		70-130	2		20
1,3-Dichloropropane	90		94		70-130	4		20
1,1,1,2-Tetrachloroethane	93		95		64-130	2		20
Bromobenzene	89		94		70-130	5		20
n-Butylbenzene	94		100		53-136	6		20
sec-Butylbenzene	94		100		70-130	6		20
tert-Butylbenzene	91		96		70-130	5		20
o-Chlorotoluene	94		97		70-130	3		20
p-Chlorotoluene	90		95		70-130	5		20
1,2-Dibromo-3-chloropropane	78		85		41-144	9		20
Hexachlorobutadiene	88		92		63-130	4		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	91		96		70-130	5		20
Naphthalene	82		91		70-130	10		20
n-Propylbenzene	92		97		69-130	5		20
1,2,3-Trichlorobenzene	84		90		70-130	7		20
1,2,4-Trichlorobenzene	85		91		70-130	7		20
1,3,5-Trimethylbenzene	91		97		64-130	6		20
1,2,4-Trimethylbenzene	91		97		70-130	6		20
1,4-Dioxane	110		108		56-162	2		20
p-Diethylbenzene	91		96		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1815630-3 WG1815630-4								
p-Ethyltoluene	93		98		70-130	5		20
1,2,4,5-Tetramethylbenzene	88		93		70-130	6		20
Ethyl ether	100		110		59-134	10		20
trans-1,4-Dichloro-2-butene	83		90		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		100		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG1817073-3 WG1817073-4								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	120		110		63-132	9		20
1,2-Dichloropropane	100		97		70-130	3		20
Dibromochloromethane	96		89		63-130	8		20
1,1,2-Trichloroethane	94		90		70-130	4		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	88		84		62-150	5		20
1,2-Dichloroethane	96		91		70-130	5		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		99		67-130	1		20
trans-1,3-Dichloropropene	96		92		70-130	4		20
cis-1,3-Dichloropropene	110		100		70-130	10		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	91		86		54-136	6		20
1,1,2,2-Tetrachloroethane	100		98		67-130	2		20
Benzene	110		110		70-130	0		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	100		98		64-130	2		20
Bromomethane	120		130		39-139	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG1817073-3 WG1817073-4								
Vinyl chloride	81		77		55-140	5		20
Chloroethane	64		62		55-138	3		20
1,1-Dichloroethene	81		74		61-145	9		20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		96		63-130	4		20
p/m-Xylene	110		100		70-130	10		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	120		110		70-130	9		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	93		89		64-130	4		20
Acrylonitrile	89		85		70-130	5		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	100		98		36-147	2		20
Acetone	79		72		58-148	9		20
Carbon disulfide	94		75		51-130	**22**	Q	20
2-Butanone	84		78		63-138	7		20
Vinyl acetate	**150**	Q	**140**	Q	70-130	7		20
4-Methyl-2-pentanone	80		72		59-130	11		20
2-Hexanone	74		70		57-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG1817073-3 WG1817073-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	94		90		70-130	4		20
1,3-Dichloropropane	94		90		70-130	4		20
1,1,1,2-Tetrachloroethane	100		96		64-130	4		20
Bromobenzene	100		97		70-130	3		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	82		77		41-144	6		20
Hexachlorobutadiene	97		92		63-130	5		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	84		82		70-130	2		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	80		80		70-130	0		20
1,2,4-Trichlorobenzene	91		88		70-130	3		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	106		94		56-162	12		20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,07 Batch: WG1817073-3 WG1817073-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	110		100		70-130	10		20
Ethyl ether	62		60		59-134	3		20
trans-1,4-Dichloro-2-butene	82		79		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/17/23 03:00
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	84		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	87		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/16/23 18:02
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.06	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.42		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	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	0.07	J	ug/l	0.10	0.01	1
Anthracene	0.15		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.17		ug/l	0.10	0.01	1
Phenanthrene	0.14		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	0.51		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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	**132**	Q	10-120
4-Terphenyl-d14	82		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 08:36
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	3220		ng/l	147	33.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	44		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:00
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 21:43
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.4	J	ng/l	12.8	2.05	1
Perfluoropentanoic Acid (PFPeA)	11.7		ng/l	6.40	1.71	1
Perfluorobutanesulfonic Acid (PFBS)	6.24		ng/l	3.20	1.07	1
Perfluorohexanoic Acid (PFHxA)	9.44		ng/l	3.20	0.944	1
Perfluoroheptanoic Acid (PFHpA)	6.88		ng/l	3.20	0.640	1
Perfluorohexanesulfonic Acid (PFHxS)	4.16		ng/l	3.20	0.768	1
Perfluorooctanoic Acid (PFOA)	32.2		ng/l	3.20	1.39	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	12.8	4.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	3.20	0.864	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	3.20	1.01	1
Perfluorooctanesulfonic Acid (PFOS)	8.96		ng/l	3.20	1.46	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	3.20	1.30	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	12.8	4.98	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	3.20	1.74	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	3.20	1.39	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	3.20	0.736	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	3.20	0.864	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	3.20	1.73	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	3.20	1.47	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	3.20	1.20	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	3.20	0.848	1
PFOA/PFOS, Total	41.2		ng/l	3.20	1.39	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	88		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	74		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	85		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	110		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	88		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	57		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	88		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	59		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	60		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	112		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	50		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	110		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/17/23 03:24
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 Date Collected: 08/10/23 13:30

Client ID: MW-7 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	74		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	77		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/16/23 18:18
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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	0.02	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	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	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	0.18		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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 Date Collected: 08/10/23 13:30

Client ID: MW-7 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	**128**	Q	10-120
4-Terphenyl-d14	87		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 08:59
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	1120		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 21:56
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.78		ng/l	6.35	1.02	1
Perfluoropentanoic Acid (PFPeA)	6.98		ng/l	3.17	0.849	1
Perfluorobutanesulfonic Acid (PFBS)	4.13		ng/l	1.59	0.532	1
Perfluorohexanoic Acid (PFHxA)	7.30		ng/l	1.59	0.468	1
Perfluoroheptanoic Acid (PFHpA)	7.22		ng/l	1.59	0.317	1
Perfluorohexanesulfonic Acid (PFHxS)	3.49		ng/l	1.59	0.381	1
Perfluorooctanoic Acid (PFOA)	49.5		ng/l	1.59	0.690	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	5.16	J	ng/l	6.35	2.14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.59	0.428	1
Perfluorononanoic Acid (PFNA)	1.43	J	ng/l	1.59	0.500	1
Perfluorooctanesulfonic Acid (PFOS)	13.8		ng/l	1.59	0.722	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.59	0.643	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.35	2.47	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.59	0.865	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.59	0.690	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.59	0.365	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.59	0.428	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.59	0.857	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.59	0.730	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.59	0.595	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.59	0.420	1
PFOA/PFOS, Total	63.3		ng/l	1.59	0.690	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02 Date Collected: 08/10/23 13:30

Client ID: MW-7 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	88		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	62		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	87		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	78		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	131		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	84		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	65		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	82		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	53		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	63		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	71		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	54		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	69		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	50		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	46		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/17/23 03:48
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 Date Collected: 08/10/23 13:40

Client ID: MW-701 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	69		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	78		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/16/23 18:35
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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	0.02	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	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	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	0.20		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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 Date Collected: 08/10/23 13:40

Client ID: MW-701 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	71		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	**134**	Q	10-120
4-Terphenyl-d14	82		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 09:23
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	1130		ng/l	147	33.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 22:09
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	8.18		ng/l	6.29	1.01	1
Perfluoropentanoic Acid (PFPeA)	7.16		ng/l	3.15	0.842	1
Perfluorobutanesulfonic Acid (PFBS)	4.25		ng/l	1.57	0.527	1
Perfluorohexanoic Acid (PFHxA)	7.00		ng/l	1.57	0.464	1
Perfluoroheptanoic Acid (PFHpA)	6.69		ng/l	1.57	0.315	1
Perfluorohexanesulfonic Acid (PFHxS)	3.46		ng/l	1.57	0.378	1
Perfluorooctanoic Acid (PFOA)	54.8		ng/l	1.57	0.684	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	7.71		ng/l	6.29	2.12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.57	0.425	1
Perfluorononanoic Acid (PFNA)	1.50	J	ng/l	1.57	0.496	1
Perfluorooctanesulfonic Acid (PFOS)	15.3		ng/l	1.57	0.716	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.57	0.637	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.29	2.45	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.57	0.858	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.57	0.684	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.57	0.362	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.57	0.425	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.57	0.850	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.57	0.724	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.57	0.590	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.57	0.417	1
PFOA/PFOS, Total	70.1		ng/l	1.57	0.684	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03 Date Collected: 08/10/23 13:40

Client ID: MW-701 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	68		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	82		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	137		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	92		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	68		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	74		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	57		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	67		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	61		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	54		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	75		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	50		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	47		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:09
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 Date Collected: 08/10/23 18:20

Client ID: MW-8 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	3.5	J	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	55		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	58		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 13:56
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	14		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	0.01	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	ND		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.12		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	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.57		ug/l	0.10	0.02	1
Pentachlorophenol	0.07	J	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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 Date Collected: 08/10/23 18:20

Client ID: MW-8 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	70		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	**131**	Q	10-120
4-Terphenyl-d14	74		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 22:22
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.08	J	ng/l	12.8	2.05	1
Perfluoropentanoic Acid (PFPeA)	12.3		ng/l	6.40	1.71	1
Perfluorobutanesulfonic Acid (PFBS)	9.44		ng/l	3.20	1.07	1
Perfluorohexanoic Acid (PFHxA)	9.44		ng/l	3.20	0.944	1
Perfluoroheptanoic Acid (PFHpA)	8.00		ng/l	3.20	0.640	1
Perfluorohexanesulfonic Acid (PFHxS)	9.28		ng/l	3.20	0.768	1
Perfluorooctanoic Acid (PFOA)	102		ng/l	3.20	1.39	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	30.7		ng/l	12.8	4.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	3.20	0.864	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	3.20	1.01	1
Perfluorooctanesulfonic Acid (PFOS)	4.00		ng/l	3.20	1.46	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	3.20	1.30	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	12.8	4.98	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	3.20	1.74	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	3.20	1.39	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	3.20	0.736	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	3.20	0.864	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	3.20	1.73	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	3.20	1.47	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	3.20	1.20	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	3.20	0.848	1
PFOA/PFOS, Total	106		ng/l	3.20	1.39	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 Date Collected: 08/10/23 18:20

Client ID: MW-8 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	67		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	81		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	141		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	91		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	75		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	71		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	82		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	68		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	65		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	85		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	78		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	62		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	92		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	53		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	46		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04 D
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 15:22
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	6000		ng/l	3000	678.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	56		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:31
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	30		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	36		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	48		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 10:08
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	147	33.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 14:13
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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	0.05	J	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	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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	66		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	**126**	Q	10-120
4-Terphenyl-d14	81		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 22:35
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.07	0.971	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.03	0.812	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.52	0.508	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.52	0.447	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.52	0.303	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.52	0.364	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.52	0.660	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.07	2.05	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.52	0.410	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.52	0.478	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.52	0.690	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.52	0.614	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.07	2.36	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.52	0.827	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.52	0.660	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.52	0.349	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.52	0.410	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.52	0.819	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.52	0.698	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.52	0.569	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.52	0.402	1
PFOA/PFOS, Total	ND		ng/l	1.52	0.660	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	70		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	79		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	73		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	108		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	75		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	74		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	52		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	74		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	66		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	76		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	45		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	50		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	62		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	58		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	63		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	50		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	43		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:53
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	47		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	63		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 10:30
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	3260		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 14:29
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

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	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.28		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	0.05	J	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: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, 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	69		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	**127**	Q	10-120
4-Terphenyl-d14	74		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 144,1633
Analytical Date: 08/29/23 22:48
Analyst: LMV

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	25.0	J	ng/l	25.6	4.10	1
Perfluoropentanoic Acid (PFPeA)	31.7		ng/l	12.8	3.42	1
Perfluorobutanesulfonic Acid (PFBS)	31.4		ng/l	6.40	2.14	1
Perfluorohexanoic Acid (PFHxA)	34.9		ng/l	6.40	1.89	1
Perfluoroheptanoic Acid (PFHpA)	33.0		ng/l	6.40	1.28	1
Perfluorohexanesulfonic Acid (PFHxS)	25.0		ng/l	6.40	1.54	1
Perfluorooctanoic Acid (PFOA)	927		ng/l	6.40	2.78	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	247		ng/l	25.6	8.64	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	6.40	1.73	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	6.40	2.02	1
Perfluorooctanesulfonic Acid (PFOS)	31.4		ng/l	6.40	2.91	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	6.40	2.59	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	25.6	9.95	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	6.40	3.49	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	6.40	2.78	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	6.40	1.47	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	6.40	1.73	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	6.40	3.46	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	6.40	2.94	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	6.40	2.40	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	6.40	1.70	1
PFOA/PFOS, Total	958		ng/l	6.40	2.78	1

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	61		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	51		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	63		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	54		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	73		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	57		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	54		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	37		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	57		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	51		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	50		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	30		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	26		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	36		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	50		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	31		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	28		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	21		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/15/23 02:16
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05,07 Batch: WG1815494-1					
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: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/15/23 02:16
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05,07 Batch: WG1815494-1					
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: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/15/23 02:16
Analyst: MG

Extraction Method: EPA 3510C
Extraction Date: 08/14/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05,07 Batch: WG1815494-1					
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	**5**	Q	21-120
Phenol-d6	**7**	Q	10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	12		10-120
4-Terphenyl-d14	54		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/16/23 23:51
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816307-1					
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: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/16/23 23:51
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816307-1					
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: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/16/23 23:51
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816307-1					
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	79		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	89		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 08/16/23 17:45
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05,07 Batch: WG1816308-1					
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: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 08/16/23 17:45
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 08/15/23 23:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05,07 Batch: WG1816308-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	117		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	**139**	Q	10-120
4-Terphenyl-d14	95		41-149

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 08/21/23 12:53
Analyst: RS

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05,07 Batch: WG1816359-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	1.02
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.856
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.536
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.472
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.320
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.384
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.696
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	2.16
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.432
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.504
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.728
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.648
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	2.49
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.872
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.696
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.368
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.432
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.864
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.736
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.600
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.424
PFOA/PFOS, Total	ND		ng/l	1.60	0.696

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 08/21/23 12:53
Analyst: RS

Extraction Method: EPA 1633
Extraction Date: 08/16/23 08:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-05,07 Batch: WG1816359-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	84		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	83		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	82		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	71		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	82		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	83		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	79		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	69		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	66		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	75		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	70		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	62		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	75		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	82		20-150

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 08/17/23 07:24
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 08/16/23 10:10

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-05,07 Batch: WG1816473-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05,07 Batch: WG1815494-2 WG1815494-3								
Acenaphthene	44		47		37-111	7		30
1,2,4-Trichlorobenzene	44		46		39-98	4		30
Hexachlorobenzene	55		61		40-140	10		30
Bis(2-chloroethyl)ether	40		43		40-140	7		30
2-Chloronaphthalene	51		53		40-140	4		30
1,2-Dichlorobenzene	**37**	Q	**38**	Q	40-140	3		30
1,3-Dichlorobenzene	**36**	Q	**37**	Q	40-140	3		30
1,4-Dichlorobenzene	38		37		36-97	3		30
3,3'-Dichlorobenzidine	**38**	Q	42		40-140	10		30
2,4-Dinitrotoluene	55		56		48-143	2		30
2,6-Dinitrotoluene	58		64		40-140	10		30
Fluoranthene	50		56		40-140	11		30
4-Chlorophenyl phenyl ether	51		54		40-140	6		30
4-Bromophenyl phenyl ether	55		58		40-140	5		30
Bis(2-chloroisopropyl)ether	**37**	Q	**37**	Q	40-140	0		30
Bis(2-chloroethoxy)methane	42		45		40-140	7		30
Hexachlorobutadiene	45		46		40-140	2		30
Hexachlorocyclopentadiene	49		50		40-140	2		30
Hexachloroethane	**35**	Q	**38**	Q	40-140	8		30
Isophorone	43		44		40-140	2		30
Naphthalene	41		43		40-140	5		30
Nitrobenzene	42		44		40-140	5		30
NDPA/DPA	48		53		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05,07 Batch: WG1815494-2 WG1815494-3								
n-Nitrosodi-n-propylamine	43		48		29-132	11		30
Bis(2-ethylhexyl)phthalate	54		58		40-140	7		30
Butyl benzyl phthalate	49		56		40-140	13		30
Di-n-butylphthalate	49		53		40-140	8		30
Di-n-octylphthalate	49		52		40-140	6		30
Diethyl phthalate	50		54		40-140	8		30
Dimethyl phthalate	60		64		40-140	6		30
Benzo(a)anthracene	50		57		40-140	13		30
Benzo(a)pyrene	54		60		40-140	11		30
Benzo(b)fluoranthene	51		58		40-140	13		30
Benzo(k)fluoranthene	52		57		40-140	9		30
Chrysene	52		58		40-140	11		30
Acenaphthylene	57		58		45-123	2		30
Anthracene	50		54		40-140	8		30
Benzo(ghi)perylene	52		55		40-140	6		30
Fluorene	48		53		40-140	10		30
Phenanthrene	48		52		40-140	8		30
Dibenzo(a,h)anthracene	52		55		40-140	6		30
Indeno(1,2,3-cd)pyrene	49		52		40-140	6		30
Pyrene	51		56		26-127	9		30
Biphenyl	41		43		40-140	5		30
4-Chloroaniline	51		55		40-140	8		30
2-Nitroaniline	54		60		52-143	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05,07 Batch: WG1815494-2 WG1815494-3

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
3-Nitroaniline	48		49		25-145	2		30
4-Nitroaniline	**48**	Q	**50**	Q	51-143	4		30
Dibenzofuran	50		52		40-140	4		30
2-Methylnaphthalene	47		50		40-140	6		30
1,2,4,5-Tetrachlorobenzene	41		42		2-134	2		30
Acetophenone	**33**	Q	**34**	Q	39-129	3		30
2,4,6-Trichlorophenol	63		68		30-130	8		30
p-Chloro-m-cresol	59		62		23-97	5		30
2-Chlorophenol	43		41		27-123	5		30
2,4-Dichlorophenol	55		55		30-130	0		30
2,4-Dimethylphenol	48		48		30-130	0		30
2-Nitrophenol	44		47		30-130	7		30
4-Nitrophenol	52		54		10-80	4		30
2,4-Dinitrophenol	65		72		20-130	10		30
4,6-Dinitro-o-cresol	69		74		20-164	7		30
Pentachlorophenol	73		76		9-103	4		30
Phenol	33		32		12-110	3		30
2-Methylphenol	44		45		30-130	2		30
3-Methylphenol/4-Methylphenol	46		48		30-130	4		30
2,4,5-Trichlorophenol	66		72		30-130	9		30
Benzoic Acid	76		83		10-164	9		30
Benzyl Alcohol	46		46		26-116	0		30
Carbazole	**50**	Q	**54**	Q	55-144	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05,07 Batch: WG1815494-2 WG1815494-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	37		38		21-120
Phenol-d6	32		33		10-120
Nitrobenzene-d5	41		41		23-120
2-Fluorobiphenyl	50		53		15-120
2,4,6-Tribromophenol	60		63		10-120
4-Terphenyl-d14	47		53		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816307-2 WG1816307-3								
Acenaphthene	76		83		37-111	9		30
1,2,4-Trichlorobenzene	66		74		39-98	11		30
Hexachlorobenzene	70		78		40-140	11		30
Bis(2-chloroethyl)ether	73		79		40-140	8		30
2-Chloronaphthalene	68		78		40-140	14		30
1,2-Dichlorobenzene	72		81		40-140	12		30
1,3-Dichlorobenzene	72		79		40-140	9		30
1,4-Dichlorobenzene	72		80		36-97	11		30
3,3'-Dichlorobenzidine	62		66		40-140	6		30
2,4-Dinitrotoluene	48		54		48-143	12		30
2,6-Dinitrotoluene	56		67		40-140	18		30
Fluoranthene	77		88		40-140	13		30
4-Chlorophenyl phenyl ether	70		78		40-140	11		30
4-Bromophenyl phenyl ether	72		81		40-140	12		30
Bis(2-chloroisopropyl)ether	90		99		40-140	10		30
Bis(2-chloroethoxy)methane	70		76		40-140	8		30
Hexachlorobutadiene	72		80		40-140	11		30
Hexachlorocyclopentadiene	60		68		40-140	13		30
Hexachloroethane	70		80		40-140	13		30
Isophorone	64		72		40-140	12		30
Naphthalene	73		84		40-140	14		30
Nitrobenzene	72		77		40-140	7		30
NDPA/DPA	74		81		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816307-2 WG1816307-3								
n-Nitrosodi-n-propylamine	72		80		29-132	11		30
Bis(2-ethylhexyl)phthalate	87		95		40-140	9		30
Butyl benzyl phthalate	81		92		40-140	13		30
Di-n-butylphthalate	81		92		40-140	13		30
Di-n-octylphthalate	81		90		40-140	11		30
Diethyl phthalate	76		82		40-140	8		30
Dimethyl phthalate	61		70		40-140	14		30
Benzo(a)anthracene	82		90		40-140	9		30
Benzo(a)pyrene	83		94		40-140	12		30
Benzo(b)fluoranthene	82		86		40-140	5		30
Benzo(k)fluoranthene	75		93		40-140	21		30
Chrysene	85		92		40-140	8		30
Acenaphthylene	63		72		45-123	13		30
Anthracene	83		92		40-140	10		30
Benzo(ghi)perylene	87		90		40-140	3		30
Fluorene	74		80		40-140	8		30
Phenanthrene	82		91		40-140	10		30
Dibenzo(a,h)anthracene	80		86		40-140	7		30
Indeno(1,2,3-cd)pyrene	75		80		40-140	6		30
Pyrene	79		90		26-127	13		30
Biphenyl	62		70		40-140	12		30
4-Chloroaniline	60		62		40-140	3		30
2-Nitroaniline	59		70		52-143	17		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816307-2 WG1816307-3								
3-Nitroaniline	64		73		25-145	13		30
4-Nitroaniline	67		78		51-143	15		30
Dibenzofuran	79		86		40-140	8		30
2-Methylnaphthalene	70		80		40-140	13		30
1,2,4,5-Tetrachlorobenzene	61		67		2-134	9		30
Acetophenone	64		72		39-129	12		30
2,4,6-Trichlorophenol	63		71		30-130	12		30
p-Chloro-m-cresol	70		78		23-97	11		30
2-Chlorophenol	74		81		27-123	9		30
2,4-Dichlorophenol	69		79		30-130	14		30
2,4-Dimethylphenol	68		61		30-130	11		30
2-Nitrophenol	62		72		30-130	15		30
4-Nitrophenol	68		77		10-80	12		30
2,4-Dinitrophenol	35		65		20-130	**60**	Q	30
4,6-Dinitro-o-cresol	57		72		20-164	23		30
Pentachlorophenol	64		85		9-103	28		30
Phenol	60		69		12-110	14		30
2-Methylphenol	72		77		30-130	7		30
3-Methylphenol/4-Methylphenol	73		80		30-130	9		30
2,4,5-Trichlorophenol	64		72		30-130	12		30
Benzoic Acid	**9**	Q	30		10-164	**107**	Q	30
Benzyl Alcohol	66		74		26-116	11		30
Carbazole	79		90		55-144	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816307-2 WG1816307-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		75		21-120
Phenol-d6	54		62		10-120
Nitrobenzene-d5	67		72		23-120
2-Fluorobiphenyl	63		71		15-120
2,4,6-Tribromophenol	72		76		10-120
4-Terphenyl-d14	72		83		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1816308-2 WG1816308-3								
Acenaphthene	88		91		40-140	3		40
2-Chloronaphthalene	88		94		40-140	7		40
Fluoranthene	107		110		40-140	3		40
Hexachlorobutadiene	88		95		40-140	8		40
Naphthalene	82		88		40-140	7		40
Benzo(a)anthracene	109		111		40-140	2		40
Benzo(a)pyrene	116		118		40-140	2		40
Benzo(b)fluoranthene	104		107		40-140	3		40
Benzo(k)fluoranthene	111		115		40-140	4		40
Chrysene	98		104		40-140	6		40
Acenaphthylene	99		104		40-140	5		40
Anthracene	98		101		40-140	3		40
Benzo(ghi)perylene	106		107		40-140	1		40
Fluorene	95		99		40-140	4		40
Phenanthrene	88		90		40-140	2		40
Dibenzo(a,h)anthracene	104		106		40-140	2		40
Indeno(1,2,3-cd)pyrene	104		107		40-140	3		40
Pyrene	105		108		40-140	3		40
2-Methylnaphthalene	90		95		40-140	5		40
Pentachlorophenol	115		140		40-140	20		40
Hexachlorobenzene	92		96		40-140	4		40
Hexachloroethane	88		94		40-140	7		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1816308-2 WG1816308-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		90		21-120
Phenol-d6	76		83		10-120
Nitrobenzene-d5	108		117		23-120
2-Fluorobiphenyl	85		90		15-120
2,4,6-Tribromophenol	**141**	Q	**140**	Q	10-120
4-Terphenyl-d14	93		95		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1816359-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	118		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	124		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	116		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	118		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	90		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	117		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	116		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	130		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	124		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	114		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	112		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	125		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	131		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	132		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	84		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	111		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	131		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	125		-		40-150	-		30
Perfluorotridecanoic Acid (PFTrDA)	116		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	126		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

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

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1816359-2 LOW LEVEL

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	82				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	101				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	64				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	83				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	54				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	60				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	66				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	60				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	50				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	60				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	60				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1816359-3								
Perfluorobutanoic Acid (PFBA)	118		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	107		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	112		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	115		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	108		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	121		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	122		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	118		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	121		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	113		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	117		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	117		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	122		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	110		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	125		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	109		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	118		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	124		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	120		-		40-150	-		30
Perfluorotridecanoic Acid (PFTrDA)	116		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	117		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

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

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1816359-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	86				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	85				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	83				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	98				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	79				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	75				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	81				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	79				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	74				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	64				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	70				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	66				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	60				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	73				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	76				20-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab	Associated sample(s): 01-05,07		Batch: WG1816473-2 WG1816473-3					
1,4-Dioxane	103		104		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	41		45		15-110

METALS

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	0.281		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Antimony, Total	0.00047	J	mg/l	0.00400	0.00042	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00035	J	mg/l	0.00050	0.00016	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Barium, Total	0.04584		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Calcium, Total	156.		mg/l	0.100	0.0394	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00116		mg/l	0.00100	0.00017	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00170		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Copper, Total	0.00327		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Iron, Total	0.681		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Lead, Total	0.00062	J	mg/l	0.00100	0.00034	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Magnesium, Total	63.8		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Manganese, Total	0.4148		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:32	EPA 7470A	1,7470A	MJR
Nickel, Total	0.03264		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Potassium, Total	6.40		mg/l	0.100	0.0309	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Sodium, Total	87.4		mg/l	0.100	0.0293	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00720		mg/l	0.00500	0.00157	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/15/23 13:55	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0154		mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.00088	J	mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00032	J	mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.04076		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01 Date Collected: 08/10/23 11:00

Client ID: MW-6 Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	0.00006	J	mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	155.		mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00108		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00113		mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.0303	J	mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	59.3		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.3631		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	0.00042		mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 22:04	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.02683		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	6.07		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	81.3		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00361	J	mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 11:27	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Lab Number: L2346742
Project Number: 12.0077448.09
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.151		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Antimony, Total	0.00054	J	mg/l	0.00400	0.00042	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00103		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Barium, Total	0.08787		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Calcium, Total	193.		mg/l	0.100	0.0394	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00084	J	mg/l	0.00100	0.00017	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00111		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Copper, Total	0.00259		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Iron, Total	0.488		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Lead, Total	0.00057	J	mg/l	0.00100	0.00034	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Magnesium, Total	56.6		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Manganese, Total	1.190		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:22	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00408		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Potassium, Total	8.66		mg/l	0.100	0.0309	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Sodium, Total	83.1		mg/l	0.100	0.0293	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00394	J	mg/l	0.00500	0.00157	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/17/23 10:24	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00462	J	mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.00043	J	mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00073		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.08286		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00006	J	mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	161.		mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00083		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00137		mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	54.8		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	1.115		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	0.00041		mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 21:40	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00336		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	7.14		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	79.2		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00222	J	mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 14:55	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Lab Number: L2346742
Project Number: 12.0077448.09
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.186		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00093		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Barium, Total	0.09310		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Calcium, Total	175.		mg/l	0.100	0.0394	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00085	J	mg/l	0.00100	0.00017	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00118		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Copper, Total	0.00281		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Iron, Total	0.428		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Lead, Total	0.00081	J	mg/l	0.00100	0.00034	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Magnesium, Total	52.6		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Manganese, Total	1.174		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:35	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00403		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Potassium, Total	7.96		mg/l	0.100	0.0309	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Sodium, Total	81.3		mg/l	0.100	0.0293	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00389	J	mg/l	0.00500	0.00157	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/17/23 10:29	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0203		mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.00044	J	mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00073		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.08931		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Lab Number: L2346742
Project Number: 12.0077448.09
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	162.		mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00091		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00163		mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.0238	J	mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	56.9		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	1.202		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	0.00037		mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 22:08	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00336		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	7.52		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	85.0		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00235	J	mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 14:59	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Lab Number: L2346742
Project Number: 12.0077448.09
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.57		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00104		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Barium, Total	0.1139		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00052		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Calcium, Total	163.		mg/l	0.100	0.0394	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00396		mg/l	0.00100	0.00017	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00723		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Copper, Total	0.00683		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Iron, Total	3.36		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Lead, Total	0.00308		mg/l	0.00100	0.00034	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Magnesium, Total	77.6		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Manganese, Total	3.491		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:39	EPA 7470A	1,7470A	MJR
Nickel, Total	0.00814		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Potassium, Total	9.50		mg/l	0.100	0.0309	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00312	J	mg/l	0.00500	0.00173	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Sodium, Total	243.		mg/l	0.100	0.0293	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00594		mg/l	0.00500	0.00157	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Zinc, Total	0.02075		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/17/23 10:33	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00424	J	mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00035	J	mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.09952		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00056		mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	167.		mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00501		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00093	J	mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	85.5		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	4.170		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	0.00036		mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 22:11	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00433		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	9.04		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	274.		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00962	J	mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 15:04	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Barium, Total	0.00035	J	mg/l	0.00050	0.00017	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Calcium, Total	0.0662	J	mg/l	0.100	0.0394	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00022	J	mg/l	0.00100	0.00017	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Copper, Total	0.00048	J	mg/l	0.00100	0.00038	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:42	EPA 7470A	1,7470A	MJR
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Sodium, Total	0.378		mg/l	0.100	0.0293	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/17/23 09:39	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.00071	J	mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05 Date Collected: 08/10/23 11:40

Client ID: EQUIP/FIELD BLANK Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	0.0454	J	mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00067	J	mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	08/17/23 19:16	08/18/23 18:50	EPA 7470A	1,7470A	GMG
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	0.236		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 17:02	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07 Date Collected: 08/10/23 11:30

Client ID: MW-4D Date Received: 08/11/23

Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY 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	3.96		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.00138		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Barium, Total	0.1176		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00028	J	mg/l	0.00050	0.00010	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00186		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Calcium, Total	148.		mg/l	0.100	0.0394	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Chromium, Total	0.00915		mg/l	0.00100	0.00017	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00674		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Copper, Total	0.01246		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Iron, Total	7.76		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Lead, Total	0.00616		mg/l	0.00100	0.00034	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Magnesium, Total	44.5		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Manganese, Total	6.551		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:45	EPA 7470A	1,7470A	MJR
Nickel, Total	0.01278		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Potassium, Total	7.18		mg/l	0.100	0.0309	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00613		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Sodium, Total	163.		mg/l	0.100	0.0293	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00015	J	mg/l	0.00100	0.00014	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.01489		mg/l	0.00500	0.00157	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Zinc, Total	0.03991		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/17/23 11:36	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0419		mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00018	J	mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.07883		mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00173		mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	136.		mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00205		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00072	J	mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.0455	J	mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	44.1		mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	7.454		mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	0.00028		mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 22:18	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00539		mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	5.45		mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	174.		mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.01266		mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 15:13	EPA 3005A	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,07 Batch: WG1815505-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Sodium, Total	ND		mg/l	0.100	0.0293	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/23 13:29	08/15/23 13:28	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05,07 Batch: WG1815688-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF

Project Name: COMMERCIAL STREET **Lab Number:** L2346742

Project Number: 12.0077448.09 **Report Date:** 09/05/23

Method Blank Analysis
Batch Quality Control

Barium, Dissolved	ND	mg/l	0.00050	0.00017	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Beryllium, Dissolved	ND	mg/l	0.00050	0.00010	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Cadmium, Dissolved	ND	mg/l	0.00020	0.00005	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Calcium, Dissolved	ND	mg/l	0.100	0.0394	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Chromium, Dissolved	ND	mg/l	0.00100	0.00017	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Cobalt, Dissolved	ND	mg/l	0.00050	0.00016	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Copper, Dissolved	ND	mg/l	0.00100	0.00038	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Iron, Dissolved	ND	mg/l	0.0500	0.0191	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Lead, Dissolved	ND	mg/l	0.00100	0.00034	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Magnesium, Dissolved	ND	mg/l	0.0700	0.0242	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Manganese, Dissolved	ND	mg/l	0.00100	0.00044	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Nickel, Dissolved	ND	mg/l	0.00200	0.00055	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Potassium, Dissolved	ND	mg/l	0.100	0.0309	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Selenium, Dissolved	ND	mg/l	0.00500	0.00173	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Silver, Dissolved	ND	mg/l	0.00040	0.00016	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Sodium, Dissolved	ND	mg/l	0.100	0.0293	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Thallium, Dissolved	ND	mg/l	0.00100	0.00014	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	08/15/23 09:16	08/17/23 11:02	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,07 Batch: WG1815689-1										
Mercury, Dissolved	0.00011	J	mg/l	0.00020	0.00009	1	08/15/23 10:12	08/16/23 21:33	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,07 Batch: WG1815709-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/14/23 19:49	08/16/23 13:16	1,7470A	MJR

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): 05 Batch: WG1817143-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	08/17/23 19:16	08/18/23 18:27	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1815505-2								
Aluminum, Total	92		-		80-120	-		
Antimony, Total	81		-		80-120	-		
Arsenic, Total	92		-		80-120	-		
Barium, Total	92		-		80-120	-		
Beryllium, Total	93		-		80-120	-		
Cadmium, Total	95		-		80-120	-		
Calcium, Total	89		-		80-120	-		
Chromium, Total	88		-		80-120	-		
Cobalt, Total	90		-		80-120	-		
Copper, Total	95		-		80-120	-		
Iron, Total	93		-		80-120	-		
Lead, Total	94		-		80-120	-		
Magnesium, Total	88		-		80-120	-		
Manganese, Total	91		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Potassium, Total	86		-		80-120	-		
Selenium, Total	85		-		80-120	-		
Silver, Total	96		-		80-120	-		
Sodium, Total	87		-		80-120	-		
Thallium, Total	92		-		80-120	-		
Vanadium, Total	88		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1815505-2					
Zinc, Total	93	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1815688-2					
Aluminum, Dissolved	96	-	80-120	-	
Antimony, Dissolved	81	-	80-120	-	
Arsenic, Dissolved	99	-	80-120	-	
Barium, Dissolved	97	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	100	-	80-120	-	
Calcium, Dissolved	85	-	80-120	-	
Chromium, Dissolved	94	-	80-120	-	
Cobalt, Dissolved	93	-	80-120	-	
Copper, Dissolved	95	-	80-120	-	
Iron, Dissolved	100	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	95	-	80-120	-	
Manganese, Dissolved	96	-	80-120	-	
Nickel, Dissolved	89	-	80-120	-	
Potassium, Dissolved	94	-	80-120	-	
Selenium, Dissolved	106	-	80-120	-	
Silver, Dissolved	98	-	80-120	-	
Sodium, Dissolved	92	-	80-120	-	
Thallium, Dissolved	96	-	80-120	-	
Vanadium, Dissolved	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1815688-2					
Zinc, Dissolved	95	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07 Batch: WG1815689-2					
Mercury, Dissolved	108	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 Batch: WG1815709-2					
Mercury, Total	94	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1817143-2					
Mercury, Dissolved	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815505-3 QC Sample: L2346742-01 Client ID: MW-6												
Aluminum, Total	0.281	2	2.15	93		-	-		75-125	-		20
Antimony, Total	0.00047J	0.5	0.4095	82		-	-		75-125	-		20
Arsenic, Total	0.00035J	0.12	0.1118	93		-	-		75-125	-		20
Barium, Total	0.04584	2	1.882	92		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04590	92		-	-		75-125	-		20
Cadmium, Total	0.00007J	0.053	0.04951	93		-	-		75-125	-		20
Calcium, Total	156.	10	151	**0**	Q	-	-		75-125	-		20
Chromium, Total	0.00116	0.2	0.1818	90		-	-		75-125	-		20
Cobalt, Total	0.00170	0.5	0.4490	89		-	-		75-125	-		20
Copper, Total	0.00327	0.25	0.2344	92		-	-		75-125	-		20
Iron, Total	0.681	1	1.55	87		-	-		75-125	-		20
Lead, Total	0.00062J	0.53	0.4982	94		-	-		75-125	-		20
Magnesium, Total	63.8	10	68.2	**44**	Q	-	-		75-125	-		20
Manganese, Total	0.4148	0.5	0.8498	87		-	-		75-125	-		20
Nickel, Total	0.03264	0.5	0.4868	91		-	-		75-125	-		20
Potassium, Total	6.40	10	14.5	81		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.105	88		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04673	93		-	-		75-125	-		20
Sodium, Total	87.4	10	85.7	**0**	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1112	93		-	-		75-125	-		20
Vanadium, Total	0.00720	0.5	0.4477	88		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815505-3 QC Sample: L2346742-01 Client ID: MW-6									
Zinc, Total	ND	0.5	0.4540	91	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

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): 01-05,07 QC Batch ID: WG1815688-3 QC Sample: L2346742-01 Client ID: MW-6										
Aluminum, Dissolved	0.0154	2	1.98	98		-	-	75-125	-	20
Antimony, Dissolved	0.00088J	0.5	0.4639	93		-	-	75-125	-	20
Arsenic, Dissolved	0.00032J	0.12	0.1164	97		-	-	75-125	-	20
Barium, Dissolved	0.04076	2	1.946	95		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05029	100		-	-	75-125	-	20
Cadmium, Dissolved	0.00006J	0.053	0.05199	98		-	-	75-125	-	20
Calcium, Dissolved	155.	10	168	**130**	Q	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1836	92		-	-	75-125	-	20
Cobalt, Dissolved	0.00108	0.5	0.4550	91		-	-	75-125	-	20
Copper, Dissolved	0.00113	0.25	0.2301	92		-	-	75-125	-	20
Iron, Dissolved	0.0303J	1	0.961	96		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5233	99		-	-	75-125	-	20
Magnesium, Dissolved	59.3	10	69.9	106		-	-	75-125	-	20
Manganese, Dissolved	0.3631	0.5	0.8312	94		-	-	75-125	-	20
Nickel, Dissolved	0.02683	0.5	0.4476	84		-	-	75-125	-	20
Potassium, Dissolved	6.07	10	15.0	89		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.120	100		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04834	97		-	-	75-125	-	20
Sodium, Dissolved	81.3	10	89.1	78		-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1134	94		-	-	75-125	-	20
Vanadium, Dissolved	0.00361J	0.5	0.4764	95		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

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): 01-05,07 QC Batch ID: WG1815688-3 QC Sample: L2346742-01 Client ID: MW-6									
Zinc, Dissolved	ND	0.5	0.4654	93	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07 QC Batch ID: WG1815689-3 QC Sample: L2346742-02 Client ID: MW-7									
Mercury, Dissolved	0.00041	0.005	0.00564	105	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815709-3 QC Sample: L2346742-02 Client ID: MW-7									
Mercury, Total	ND	0.005	0.00476	95	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1817143-3 QC Sample: L2347180-05 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00514	103	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815505-4 QC Sample: L2346742-01 Client ID: MW-6						
Aluminum, Total	0.281	0.301	mg/l	7		20
Antimony, Total	0.00047J	0.00078J	mg/l	NC		20
Arsenic, Total	0.00035J	0.00050	mg/l	NC		20
Barium, Total	0.04584	0.04593	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	0.00007J	0.00007J	mg/l	NC		20
Calcium, Total	156.	152	mg/l	3		20
Chromium, Total	0.00116	0.00124	mg/l	6		20
Cobalt, Total	0.00170	0.00171	mg/l	0		20
Copper, Total	0.00327	0.00281	mg/l	15		20
Iron, Total	0.681	0.713	mg/l	5		20
Lead, Total	0.00062J	0.00064J	mg/l	NC		20
Magnesium, Total	63.8	62.5	mg/l	2		20
Manganese, Total	0.4148	0.4088	mg/l	1		20
Nickel, Total	0.03264	0.03146	mg/l	4		20
Potassium, Total	6.40	6.39	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	87.4	85.0	mg/l	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET

Project Number: 12.0077448.09

Lab Number: L2346742

Report Date: 09/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815505-4 QC Sample: L2346742-01 Client ID: MW-6					
Thallium, Total	ND	0.00025J	mg/l	NC	20
Vanadium, Total	0.00720	0.00711	mg/l	1	20
Zinc, Total	ND	0.00377J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815688-4 QC Sample: L2346742-01 Client ID: MW-6					
Aluminum, Dissolved	0.0154	0.0176	mg/l	13	20
Antimony, Dissolved	0.00088J	0.00130J	mg/l	NC	20
Arsenic, Dissolved	0.00032J	0.00046J	mg/l	NC	20
Barium, Dissolved	0.04076	0.04096	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	0.00006J	0.00007J	mg/l	NC	20
Calcium, Dissolved	155.	164	mg/l	6	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	0.00108	0.00106	mg/l	2	20
Copper, Dissolved	0.00113	0.00120	mg/l	7	20
Iron, Dissolved	0.0303J	0.0352J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	59.3	60.3	mg/l	2	20
Manganese, Dissolved	0.3631	0.3707	mg/l	2	20
Nickel, Dissolved	0.02683	0.02656	mg/l	1	20
Potassium, Dissolved	6.07	6.30	mg/l	4	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	81.3	83.5	mg/l	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815688-4 QC Sample: L2346742-01 Client ID: MW-6					
Thallium, Dissolved	ND	0.00027J	mg/l	NC	20
Vanadium, Dissolved	0.00361J	0.00363J	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07 QC Batch ID: WG1815689-4 QC Sample: L2346742-02 Client ID: MW-7					
Mercury, Dissolved	0.00041	0.00043	mg/l	4	20
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815709-4 QC Sample: L2346742-02 Client ID: MW-7					
Mercury, Total	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1817143-4 QC Sample: L2347180-05 Client ID: DUP Sample					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815505-6 QC Sample: L2346742-01 Client ID: MW-6						
Aluminum, Total	0.281	0.269	mg/l	4		20
Barium, Total	0.04584	0.04554	mg/l	1		20
Calcium, Total	156.	145.	mg/l	7		20
Magnesium, Total	63.8	60.0	mg/l	6		20
Manganese, Total	0.4148	0.3887	mg/l	6		20
Potassium, Total	6.40	6.03	mg/l	6		20
Sodium, Total	87.4	79.3	mg/l	9		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815688-6 QC Sample: L2346742-01 Client ID: MW-6						
Barium, Dissolved	0.04076	0.03921	mg/l	4		20
Calcium, Dissolved	155.	154.	mg/l	1		20
Magnesium, Dissolved	59.3	61.6	mg/l	4		20
Manganese, Dissolved	0.3631	0.3632	mg/l	0		20
Potassium, Dissolved	6.07	6.12	mg/l	1		20
Sodium, Dissolved	81.3	81.8	mg/l	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-01
Client ID: MW-6
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:00
Date Received: 08/11/23
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										
Nitrogen, Ammonia	0.082		mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:38	121,4500NH3-BH	AVT
Nitrogen, Nitrite	0.133		mg/l	0.050	0.013	1	-	08/12/23 04:18	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.417		mg/l	0.100	0.022	1	-	08/12/23 04:18	121,4500NO3-F	KAF
Phosphorus, Total	0.069		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 09:02	121,4500P-E	EYA
Sulfate	430		mg/l	120	17.	12.5	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	2.1		mg/l	0.50	0.10	1	-	08/17/23 11:36	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-02
Client ID: MW-7
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 08/10/23 13:30
Date Received: 08/11/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Ammonia	0.101		mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:39	121,4500NH3-BH	AVT
Nitrogen, Nitrite	0.035	J	mg/l	0.050	0.013	1	-	08/12/23 04:20	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.218		mg/l	0.100	0.022	1	-	08/12/23 04:20	121,4500NO3-F	KAF
Phosphorus, Total	0.035		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 09:03	121,4500P-E	EYA
Sulfate	320		mg/l	100	14.	10	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	3.5		mg/l	1.0	0.19	2	-	08/17/23 12:11	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-03
Client ID: MW-701
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 08/10/23 13:40
Date Received: 08/11/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Ammonia	0.108		mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:44	121,4500NH3-BH	AVT
Nitrogen, Nitrite	0.037	J	mg/l	0.050	0.013	1	-	08/12/23 04:21	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.216		mg/l	0.100	0.022	1	-	08/12/23 04:21	121,4500NO3-F	KAF
Phosphorus, Total	0.038		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 09:05	121,4500P-E	EYA
Sulfate	300		mg/l	100	14.	10	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	3.5		mg/l	1.0	0.19	2	-	08/17/23 12:45	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-04
Client ID: MW-8
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 08/10/23 18:20
Date Received: 08/11/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Ammonia	0.055	J	mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:45	121,4500NH3-BH	AVT
Nitrogen, Nitrite	0.016	J	mg/l	0.050	0.013	1	-	08/12/23 04:22	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.035	J	mg/l	0.100	0.022	1	-	08/12/23 04:22	121,4500NO3-F	KAF
Phosphorus, Total	0.250		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 09:06	121,4500P-E	EYA
Sulfate	100		mg/l	25	3.4	2.5	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	5.4		mg/l	2.0	0.39	4	-	08/17/23 13:20	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-05
Client ID: EQUIP/FIELD BLANK
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY

Date Collected: 08/10/23 11:40
Date Received: 08/11/23
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										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:40	121,4500NH3-BH	AVT
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	08/12/23 04:24	121,4500NO3-F	KAF
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	08/12/23 04:24	121,4500NO3-F	KAF
Phosphorus, Total	ND		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 09:08	121,4500P-E	EYA
Sulfate	1.5	J	mg/l	10	1.4	1	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	0.12	J	mg/l	0.50	0.10	1	-	08/17/23 07:00	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

SAMPLE RESULTS

Lab ID: L2346742-07
Client ID: MW-4D
Sample Location: 50 COMMERCIAL STREET, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 08/10/23 11:30
Date Received: 08/11/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Ammonia	0.098	J	mg/l	0.150	0.048	2	08/16/23 20:33	08/17/23 20:46	121,4500NH3-BH	AVT
Nitrogen, Nitrite	0.139		mg/l	0.050	0.013	1	-	08/12/23 04:25	121,4500NO3-F	KAF
Nitrogen, Nitrate	2.26		mg/l	0.100	0.022	1	-	08/12/23 04:25	121,4500NO3-F	KAF
Phosphorus, Total	0.431		mg/l	0.050	0.020	5	08/17/23 14:26	08/18/23 09:11	121,4500P-E	EYA
Sulfate	95.		mg/l	50	6.8	5	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
Total Organic Carbon	2.8		mg/l	1.0	0.19	2	-	08/17/23 13:57	1,9060A	DEW

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09
Lab Number: L2346742
Report Date: 09/05/23

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): 01-05,07 Batch: WG1815022-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	08/12/23 01:41	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1815026-1										
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	08/12/23 01:49	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1816447-1										
Sulfate	ND		mg/l	10	1.4	1	08/16/23 12:00	08/16/23 12:00	1,9038	MRW
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1816533-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	08/16/23 20:33	08/17/23 20:19	121,4500NH3-BH	AVT
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1816798-1										
Total Organic Carbon	ND		mg/l	0.50	0.10	1	-	08/17/23 04:18	1,9060A	DEW
General Chemistry - Westborough Lab for sample(s): 01-05,07 Batch: WG1817069-1										
Phosphorus, Total	ND		mg/l	0.010	0.004	1	08/17/23 14:26	08/18/23 08:45	121,4500P-E	EYA

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1815022-2								
Nitrogen, Nitrite	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1815026-2								
Nitrogen, Nitrate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1816447-2								
Sulfate	95		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1816533-2								
Nitrogen, Ammonia	90		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1816798-2								
Total Organic Carbon	95		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 Batch: WG1817069-2								
Phosphorus, Total	95		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

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): 01-05,07 QC Batch ID: WG1815022-4 QC Sample: L2346664-03 Client ID: MS Sample												
Nitrogen, Nitrite	ND	4	4.20	105		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815026-4 QC Sample: L2346664-03 Client ID: MS Sample												
Nitrogen, Nitrate	210.	4	209	**0**	Q	-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816447-4 QC Sample: L2344023-08 Client ID: MS Sample												
Sulfate	ND	20	28	140		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816533-4 QC Sample: L2345392-02 Client ID: MS Sample												
Nitrogen, Ammonia	0.086	4	3.66	89		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816798-4 QC Sample: L2345570-01 Client ID: MS Sample												
Total Organic Carbon	25000	64000	95000	110		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1817069-4 QC Sample: L2346742-05 Client ID: EQUIP/FIELD BLANK												
Phosphorus, Total	ND	0.5	0.511	102		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815022-3 QC Sample: L2346664-03 Client ID: DUP Sample						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1815026-3 QC Sample: L2346664-03 Client ID: DUP Sample						
Nitrogen, Nitrate	210.	209	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816447-3 QC Sample: L2344023-08 Client ID: DUP Sample						
Sulfate	ND	ND	mg/l	NC		14
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816533-3 QC Sample: L2345392-02 Client ID: DUP Sample						
Nitrogen, Ammonia	0.086	0.141	mg/l	**48**	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1816798-3 QC Sample: L2345570-01 Client ID: DUP Sample						
Total Organic Carbon	25000	24000	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07 QC Batch ID: WG1817069-3 QC Sample: L2346742-05 Client ID: EQUIP/FIELD BLANK						
Phosphorus, Total	ND	ND	mg/l	NC		20

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-01A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-01B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-01C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-01D	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-01E	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-01F	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-01G	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-01H	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		-
L2346742-01J	Plastic 250ml HNO3 preserved	B	<2	<2	3.3	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2346742-01K	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-01L	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-01M	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-01N	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-01O	Plastic 500ml H2SO4 preserved	B	<2	<2	3.3	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-01P	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-01Q	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-01R	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-01X	Plastic 250ml HNO3 preserved Filtrates	B	NA	NA	3.3	Y	Absent		K-6020S(180),CU-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),MG-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),BA-6020S(180),NI-6020S(180),NA-6020S(180),PB-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2346742-02A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-02B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-02C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-02D	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-02E	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-02F	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-02G	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-02H	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		-
L2346742-02J	Plastic 250ml HNO3 preserved	B	<2	<2	3.3	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),CO-6020T(180)
L2346742-02K	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-02L	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-02M	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-02N	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-02O	Plastic 500ml H2SO4 preserved	B	<2	<2	3.3	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-02P	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-02Q	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-02R	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-02X	Plastic 250ml HNO3 preserved Filtrates	B	NA	NA	3.3	Y	Absent		V-6020S(180),SE-6020S(180),K-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2346742-03A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-03B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-03C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-03D	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-03E	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-03F	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-03G	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-03H	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		-
L2346742-03J	Plastic 250ml HNO3 preserved	B	<2	<2	3.3	Y	Absent		FE-6020T(180),TL-6020T(180),SE-6020T(180),BA-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2346742-03K	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-03L	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-03M	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-03N	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-03O	Plastic 500ml H2SO4 preserved	B	<2	<2	3.3	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-03P	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-03Q	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-03R	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

Project Name: COMMERCIAL STREET
Project Number: 12.0077448.09

Lab Number: L2346742
Report Date: 09/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-03X	Plastic 250ml HNO3 preserved Filtrates	B	NA	NA	3.3	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2346742-04A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-04B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-04C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-04D	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-04E	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-04F	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-04G	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-04H	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		-
L2346742-04J	Plastic 250ml HNO3 preserved	B	<2	<2	3.3	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2346742-04K	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-04L	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-04M	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-04N	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-04O	Plastic 500ml H2SO4 preserved	B	<2	<2	3.3	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-04P	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-04Q	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-04R	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-04X	Plastic 250ml HNO3 preserved Filtrates	B	NA	NA	3.3	Y	Absent		SE-6020S(180),V-6020S(180),K-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),PB-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2346742-05A	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-05B	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-05C	Vial HCl preserved	B	NA		3.3	Y	Absent		NYTCL-8260(14)
L2346742-05D	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-05E	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-05F	Vial H2SO4 preserved	B	NA		3.3	Y	Absent		TOC-9060(28)
L2346742-05G	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-05H	Plastic 250ml unpreserved	B	7	7	3.3	Y	Absent		-
L2346742-05J	Plastic 250ml HNO3 preserved	B	<2	<2	3.3	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),CO-6020T(180)
L2346742-05K	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-05L	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-05M	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-05N	Amber 250ml unpreserved	B	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-05O	Plastic 500ml H2SO4 preserved	B	<2	<2	3.3	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-05P	Plastic 500ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-05Q	Plastic 950ml unpreserved	A	NA		2.9	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-05X	Plastic 250ml HNO3 preserved Filtrates	B	NA	NA	3.3	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),CA-6020S(180),CR-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),PB-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2346742-06A	Vial HCl preserved	C	NA		3.5	Y	Absent		NYTCL-8260(14)
L2346742-06B	Vial HCl preserved	C	NA		3.5	Y	Absent		NYTCL-8260(14)
L2346742-07A	Vial HCl preserved	C	NA		3.5	Y	Absent		NYTCL-8260(14)
L2346742-07B	Vial HCl preserved	C	NA		3.5	Y	Absent		NYTCL-8260(14)
L2346742-07C	Vial HCl preserved	C	NA		3.5	Y	Absent		NYTCL-8260(14)
L2346742-07D	Vial H2SO4 preserved	C	NA		3.5	Y	Absent		TOC-9060(28)
L2346742-07E	Vial H2SO4 preserved	C	NA		3.5	Y	Absent		TOC-9060(28)
L2346742-07F	Vial H2SO4 preserved	C	NA		3.5	Y	Absent		TOC-9060(28)
L2346742-07G	Plastic 250ml unpreserved	C	7	7	3.5	Y	Absent		SO4-9038(28),NO3-4500(2),NO2-4500NO3(2)
L2346742-07H	Plastic 250ml unpreserved	C	7	7	3.5	Y	Absent		-
L2346742-07J	Plastic 250ml HNO3 preserved	C	<2	<2	3.5	Y	Absent		SE-6020T(180),TL-6020T(180),FE-6020T(180),BA-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2346742-07K	Amber 250ml unpreserved	C	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-07L	Amber 250ml unpreserved	C	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2346742-07M	Amber 250ml unpreserved	C	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-07N	Amber 250ml unpreserved	C	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2346742-07O	Plastic 500ml H2SO4 preserved	C	<2	<2	3.5	Y	Absent		TPHOS-4500(28),NH3-4500(28)
L2346742-07P	Plastic 500ml unpreserved	C	NA		3.5	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-07Q	Plastic 500ml unpreserved	C	NA		3.5	Y	Absent		A2-NY-1633-DRAFT-21(28)
L2346742-07R	Plastic 500ml unpreserved	C	NA		3.5	Y	Absent		A2-NY-1633-DRAFT-21(28)

*Values in parentheses indicate holding time in days

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Project Number: 12.0077448.09

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2346742-07X	Plastic 250ml HNO3 preserved Filtrates	C	NA	NA	3.5	Y	Absent		K-6020S(180),CU-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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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

Project Name:	COMMERCIAL STREET	**Lab Number:**	L2346742
Project Number:	12.0077448.09	**Report Date:**	09/05/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

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

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

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

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	COMMERCIAL STREET	**Lab Number:**	L2346742
Project Number:	12.0077448.09	**Report Date:**	09/05/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	COMMERCIAL STREET	**Lab Number:**	L2346742
Project Number:	12.0077448.09	**Report Date:**	09/05/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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 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).
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

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: 8/11/23

ALPHA Job #: L2346742

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

Project Information

Project Name: Commercial Street
Project Location: 50 Commercial Street, Brooklyn, NY
Project #: 12.0077448.00 (2018072)
(Use Project name as Project #) ☐
Project Manager: Robert Jackson
ALPHAQuote #:

Client Information

Client: GZA GeoEnvironmental
Address: 55 Lane Road, Fairfield, NJ
Phone: (973) 738-0782
Fax:
Email: robert.jackson@gza.com

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days: 6-7 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)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL-VOCs	SVOCs	Metals (tot. and dissolved)	Nitrogen-Nitrate	Nitrogen-Nitrite, Ammonia	Sulfate, Manganese, Iron, Phosphorus	Tot. and total org. carbon	PFAS, 1-4 dioxane	Sample Specific Comments	Total Bottles
46742-01	MW-6	8/10/23	11:00	GW	CD	✓	✓	✓	✓	✓	✓	✓	✓		
-02	MW-7	↓	13:30	GW	↓	✓	✓	✓	✓	✓	✓	✓	✓		
-03	MW-701	↓	13:40	GW	↓	✓	✓	✓	✓	✓	✓	✓	✓		
-04	MW-8	↓	18:20	GW	↓	✓	✓	✓	✓	✓	✓	✓	✓		
-05	Equip./Field Blank	↓	11:40	FB	↓	✓	✓	✓	✓	✓	✓	✓	✓		
-06	Trip Blank	↓		TB		✓									
-07	MW-4D	8/1/23	11:30	GW	CD	✓	✓	✓	✓	✓	✓	✓	✓		

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
Christian [illegible]	8/11/23 12:15	[illegible]	8/11/23 12:15
[illegible]	8/11/23 16:15	Paul Mazzella	8/11/23 1700
Paul Mazzella	8/11/23	[illegible]	8/11/23 [illegible]
[illegible]	8/11/23 [illegible]	Wendy Mann	8/11/23 22:20

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)

Appendix E
Data Usability Summary Report

DATA VALIDATION

FOR

50 COMMERCIAL STREET
BROOKLYN, NY

ORGANIC AND INORGANIC ANALYSIS DATA
IN GROUNDWATER

Laboratory Sample Delivery Group (SDG) No. L2346742

Analyses Performed By:
Alpha Analytical Laboratories, Inc.
Westborough, MA

For:
Rimani Realty, LLC
Brooklyn, NY

Data Validation By:
Chunhua Liu
GZA GeoEnvironmental, Inc.
Norwood, MA

November 27, 2023

GeoEnvironmental, Inc. (GZA) developed this Data Usability Summary Report (DUSR) to document the usability of the analytical data used to support the investigation of the 50 Commercial Street site (the "Site") located in Brooklyn, New York. GZA reviewed the groundwater data collected from the Site on August 10, 2023. The groundwater samples were submitted for analyses of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), per-and polyfluoroalkyl substances (PFAS), metals, and wet chemistry characterization. The groundwater results are included in the sample delivery group (SDG) L2346742. The data generated have been submitted to the New York State Department of Environmental Conservation via the reduced laboratory data deliverables form. In preparing this DUSR, GZA consulted the following guidance documents to guide the overall data usability evaluation activity:

- The Quality Assurance Project Plan (QAPP), 50 Commercial Street Redevelopment Site, Brooklyn, New York, dated March 2023;
- New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation, issued on May 3, 2010, and most recently updated on April, 9, 2019;
- United States Environmental Protection Agency (USEPA) National Functional Guidelines for Organic Superfund Methods Data Review (SFAM01.1), November 2020.
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (SFAM01.1), November 2020.
- NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS). April 2023.

In addition, GZA consulted the above guidance and the following documents to establish quality control (QC) limits for the project:

- New York State Ambient Groundwater Standards, Criteria and Guidance.
- NY - New York TOGS 111 Groundwater Effluent Limitations criteria.
- Hazardous Waste Support Section, SOP No. HW-24 Revision 4, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C. September 2014. https://www.epa.gov/sites/default/files/2020-08/documents/sop_hwss_24_revision_4.pdf
- Hazardous Waste Support Section, SOP No. HW-22 Revision 5, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D. December 2010. https://www.epa.gov/sites/default/files/2020-08/documents/sop_hw-22_rev5.pdf
- Hazardous Waste Support Section, SOP No. HW-3c Revision 1, Mercury, and Cyanide Data Validation. September 2016. https://www.epa.gov/sites/default/files/2020-10/documents/sop_hw-3c_hg_cn_rev1.pdf
- Method 8260B, Revision 2, December 1996. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). https://19january2017snapshot.epa.gov/sites/production/files/2015-12/documents/8260b.pdf
- Method 8270D, Revision 5, July 2014. Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry. https://archive.epa.gov/epa/sites/production/files/2015-12/documents/8270d.pdf

The QC requirements and limits for the project are summarized in Table 1 (for VOCs, SVOCs, and metals) and Table 2 (for PFAS), respectively. The limits listed in Tables 1 and 2 were used in this DUSR, along with the limits specified in the QAPP to assess the usability of the data.

GZA received the NYSDEC Analytical Services Protocol (ASP) Category B laboratory report for the data to evaluate the data usability. GZA reviewed the laboratory reports relevant to the following quality assurance/quality control QA/QC items:

- Sample preservation and holding time.
- Target analytes identification and quantification.
- Laboratory method detection limits and laboratory reporting limits (RLs);
- Surrogate recoveries.
- Chain-of-custodys (COCs);
- Laboratory sample receipt summary forms.
- Method blanks and continuing calibration blanks.
- Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) results.
- Matrix spike (MS) and matrix spike duplicate (MSD) results.
- Laboratory analytical instrument performance.
- Initial calibrations, initial calibration verifications, continuing calibration verifications.
- Internal standard results.
- Serial dilution.
- Interference check.
- Laboratory duplicate results.
- Field blank, trip blank, equipment blank results; and
- Field duplicate results[1].

Detailed discussions of the analytical deficiencies noted for the data are included in the spreadsheets included in Attachment I. A brief discussion of the DUSR and the data usability is presented below. Overall, the QA/QC results met the limits established by the QAPP and the additional limits included in Tables 1 and 2 except for some deficiencies discussed in this DUSR. Based on the review of the analytical deficiencies, GZA applied data qualifiers to the associated samples in accordance with the USEPA National Functional Guidelines (for the VOC, SVOC, and metal data) and the NYSDEC PFAS guidance (for PFAS data). With the exception of the limited data rejected by the DUSR (as discussed in this DUSR), all the other data were considered usable for the project purposes. The groundwater data with qualifiers added as a result of the DUSR are included in Table 3. The following data qualifiers have been added to the data based on this DUSR.

[1] One duplicate pair (MW-7 and MW-701) is available.

J	Estimated; compound was positively identified, and the associated value is the approximate concentration in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	Compound was detected at a concentration below the reported sample quantitation limit; therefore, the reported concentration has been estimated.
R	Rejected; serious deficiencies existed in the ability to analyze the sample and meet quality control (QC) criteria. The presence or absence of the compound cannot be verified.

QUANTITATION LIMITS EVALUATION

GZA compared the laboratory method detection limits (MDLs) against the New York State Ambient Groundwater Standards, Criteria and Guidance. Table 3 highlighted MDLs above the project cleanup objectives for groundwater. The majority of the project sample results had MDLs sufficient to identify whether or not the results met the project cleanup objectives. Note that multiple polycyclic aromatic hydrocarbons (PAHs) had MDLs above the NY AWQS and/or NY TOGS-GA; these PAHs were detected in multiple samples in this SDG.

MS/MSD SAMPLES

As requested by the QAPP, MS/MSD samples will be performed at a frequency of one per twenty filed samples.

For metals (including total and dissolved metals) and mercury (including total mercury and dissolved mercury), MS/MSD analysis was performed for one selected project sample and the MS/MSD results all met the project limits.

For VOCs, SVOCs, or PFAS analysis, no MS/MSD analysis was performed for any project sample.

FIELD DUPLICATE SAMPLES

As requested by the QAPP, blind duplicate samples will be performed at a frequency of one per twenty filed samples.

One duplicate pair (MW-7 and MW-701) was collected and submitted for VOC, SVOC, PFAS, metal, and wet chemistry analysis. The field duplicate results met the project limits (i.e., calculated %RPD values within the project limit of 30%, or the absolute difference within RL when one or both sample results within 5 times RL) for all target analytes but dissolved aluminum.

TRIP BLANK AND FIELD BLANK SAMPLES

As requested by the QAPP, field blank and trip blank samples will be performed at a frequency of one per twenty filed samples.

A field blank (or equipment blank) sample was collected and submitted for VOC, SVOC, PFAS, and metal analysis. In addition, a trip blank was collected and submitted for VOC analysis.

REJECTED DATA

Multiple 1,4-dioxane non-detected results via the VOC method were rejected due to the low relative response factor (RRF). It should be noted that 1,4-dioxane is also reported via the SVOC method. The rejected 1,4-dioxane results are not expected to impact the Site management decision.

QUALIFIED DATA

Multiple VOC, SVOC, PFAS, and metal results were qualified as a result of this DUSR. The qualification is due to the analytical deficiencies noted (as shown in Attachment I).

CONCLUSION

In summary, it is GZA's opinion that, with the exception of the limited rejected data, the data evaluated in this DUSR are scientifically valid and defensible; and of sufficient accuracy, precision, and completeness and therefore were considered usable.

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Tables

TABLE 1
Quality Control Measurement Performance Criteria
50 Commercial Street Redevelopment Site
Brooklyn, NY

Analyte	Water	Soil	Reference/Note
Holding Time and Preservation			
Refer to QAPP Table 1, Receive within 48 hours from sampling by laboratory per DER-10			
Surrogate Recoveries			
VOCs	70-130% (rejection criterion 10%)	70-130% (rejection criterion 10%)	Region II SOP limits ranged between 74-121%, consistent with laboratory established limits. Rejection criterion based on Region II SOP for SVOCs.
SVOCs	Laboratory established limits (30-130% when in-house criteria not available) (rejection criterion 10%)	Laboratory established limits (30-130% when in-house criteria not available) (rejection criterion 10%)	The laboratory established limits referenced in the Region II SOP. Rejection criterion based on NFG and Region II SOP.
LCS/LCSD Recoveries			
VOCs	70-130% (rejection criterion 20%)	70-130% (rejection criterion 20%)	Consistent with laboratory established limits. Rejection criterion based on NFG for MS/MSD.
SVOCs	In-house acceptable criteria (40-140% when in-house criteria not available). Rejection criterion of 20%.	In-house acceptable criteria (40-140% when in-house criteria not available) Rejection criterion of 20%.	Rejection criterion based on NFG for MS/MSD.
Metals	70-130% (rejection criterion 40%)	70-130% (rejection criterion 40%)	NFG
MS/MSD Recoveries (1 per 20 samples in accordance with DER-10), See footnote 1			
VOCs	70-130% (rejection criterion 20%)	70-130% (rejection criterion 20%)	Consistent with laboratory established limits for LCS/LCSD. Rejection criterion based on NFG.
SVOCs	In-house acceptable criteria (40-140% when in-house criteria not available). Rejection criterion of 20%.	In-house acceptable criteria (40-140% when in-house criteria not available). Rejection criterion of 20%.	Rejection criterion based on NFG for MS/MSD.
Metals	75-125% (rejection criterion 30%)	75-125% (rejection criterion 30%)	NFG

TABLE 1
Quality Control Measurement Performance Criteria
50 Commercial Street Redevelopment Site
Brooklyn, NY

Analyte	Water	Soil	Reference/Note
LCS/LCSD and/or MS/MSD and/or Laboratory Duplicate and/or Field Duplicate RPD (MS/MSD and field duplicate required 1 per 20 samples per DER-10), See footnote 2			
VOCs	30%	50%	
SVOCs	30%	50%	
Metals	30%, rejection criterion 100%	50%, rejection criterion 120%	rejection criterion from EPA Region II SOP for laboratory duplicate analysis
Method Blank/Instrument Blank/Field Blank/Trip Blank/Rinsate Blank (trip blank for VOC and field/rinsate blank for other analyses required 1 per 20 samples per DER-10, see footnote 3 for requirement for method blank/instrument blank)			
All Analytes	<RL	<RL	NFG
Instrument Performance Criteria			
VOCs	See Table 4 of Method 8260B and Laboratory Reports		Table 4, Method 8260B, referenced by EPA Region II SOP for VOCs.
SVOCs	See Table 3 of Method 8270D and Laboratory Reports		Table 3, Method 8270D, referenced by EPA Region II SOP for SVOCs.
Initial Calibration, See Footnote 4			
VOCs	RSD≤ 20%, RRF≥0.01, For linear fits, correlation coefficient >=0.995	RSD≤ 20%, RRF≥0.01, For linear fits, correlation coefficient >=0.995	EPA Region II SOP for VOCs for Method 8260C, minimum RRF=0.01
SVOCs	RSD≤ 30%, RRF≥0.05, rejection criterion – RSD>90% For linear fits, correlation coefficient >=0.995	RSD≤ 30%, RRF≥0.05, rejection criterion – RSD>90% For linear fits, correlation coefficient >=0.995	EPA Region II SOP for SVOCs
Metals	90%-110%, For linear fits, correlation coefficient >=0.995 rejection criterion - <75% or >125%, or Correlation coefficient<0.990	90%-110%, For linear fits, correlation coefficient >=0.995 rejection criterion - <75% or >125%, or Correlation coefficient<0.990	NFG

TABLE 1
Quality Control Measurement Performance Criteria
50 Commercial Street Redevelopment Site
Brooklyn, NY

Analyte	Water	Soil	Reference/Note
ICV/CCV %D, See Footnote 5			
VOCs/SVOCs	20%, RRF≥0.01	20%, RRF≥0.01	EPA Region II SOPs for VOCs, %D range between 20% and 30%.
SVOCs	20%, RRF≥0.05, rejection criterion – %D>90%	20%, RRF≥0.05, rejection criterion – %D>90%	EPA Region II SOPs for SVOCs.
Metals	90%-110%, correlation coefficient >=0.995 rejection criterion - <75% or >125%, or Correlation coefficient<0.990	90%-110%, correlation coefficient >=0.995 rejection criterion - <75% or >125%, or Correlation coefficient<0.990	NFG
Internal Standard			
VOCs/SVOCs	<10 second change in retention time compared with associated opening CCV or ICV. <factor of 2 (-50% to +100%) change in internal standard area compared with associated opening CCV or ICV. Rejection criterion – <20% of response associated with opening CCV or ICV.	<10 second change in retention time compared with associated opening CCV or ICV. <factor of 2 (-50% to +100%) change in internal standard area compared with associated opening CCV or ICV. Rejection criterion – <20% of response associated with opening CCV or ICV.	NFG and EPA Region II SOPs.
Metals	60-125%	60-125%	NFG
Target Analyte Identification			
VOCs/SVOCs	RRT within 0.06RRT in opening CCV, relative ion intensities requirements, See NFG and Region II SOPs.	RRT within 0.06RRT in opening CCV, relative ion intensities requirements, See NFG and Region II SOPs.	See NFG and Region II SOPs.
Interference Check			
Metals	85-115%	85-115%	NFG
Serial Dilution			
Metals	20%	20%	NFG
Percentage of Solids			
All Analytes	NA	>30%, rejection criterion – 10%	NFG

TABLE 1
Quality Control Measurement Performance Criteria
50 Commercial Street Redevelopment Site
Brooklyn, NY

Notes:

1. Applicable when the sample analyte concentration is < 4 times the spike analyte concentration.
2. As indicated in the NFG for organics, the project RPD does not apply when the sample and duplicate are less than 5 times the RL. A control limit of RL will be used for the absolute difference between the sample and the duplicate sample if either the sample or duplicate value is less than 5 times the RL, in accordance with the Region II SOP. If one value is > RL and the other value is non-detect, calculate the absolute difference between the value > RL and the MDL and use this difference to qualify sample results.
3. In accordance with the NFG, Method Blank (MB) once every 12-hour period and prior to sample analysis, after ICAL, ICV, opening CCV. Instrument Blank immediately after every sample exceeding calibration range.
4. For VOCs and SVOCs, ICAL analyzed within 12 hours of associated instrument performance check, prior to ICV, samples, or blanks.
5. For VOCs and SVOCs, ICV performed after ICAL, prior to blank, sample, CCV. CCV performed at beginning and end of each 12-hour period of operation. For metals, CCV performed every two hours during an analytical sequence.

References:

1. National Functional Guidelines (NFG) for Organic Superfund Methods Data Review. November 2020.
2. Hazardous Waste Support Section, SOP No. HW-24 Revision 4, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C. September, 2014. https://www.epa.gov/sites/default/files/2020-08/documents/sop_hwss_24_revision_4.pdf
3. Hazardous Waste Support Section, SOP No. HW-22 Revision 5, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D. December 2010. https://www.epa.gov/sites/default/files/2020-08/documents/sop_hw-22_rev5.pdf
4. Quality Assurance Project Plan (QAPP), 50 Commercial Street Redevelopment Site, Brooklyn, New York. March 2023.
5. Method 8260B, Revision 2, December 1996. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). https://19january2017snapshot.epa.gov/sites/production/files/2015-12/documents/8260b.pdf
6. Method 8270D, Revision 5, July 2014. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry. https://archive.epa.gov/epa/sites/production/files/2015-12/documents/8270d.pdf

VOC = Volatile Organic Compound;
SVOC = Semi-Volatile Organic Compound;
LCS = Laboratory Spike Sample;
LCSD = Laboratory Spike Sample Duplicate;
MS = Matrix Spike;
MSD = Matrix Spike Duplicate;
RL = laboratory Reporting Limit;
ICAL = Initial CALibration;
ICV = Initial Calibration Verification;
CCV = Continuing Calibration Verification;
RSD = Relative Standard Deviation;
RRF = Relative Response Factor;
%D = Percent Difference;
%RI = Percent Relative Intensity.

TABLE 2

Project Quality Control Requirements and Limits for PFAS
50 Commercial Street Redevelopment Site
Brooklyn, NY

QC Item	QC Limit		Source
MCL	PFOA	10 ng/L	NYSDOH Drinking Water MCL
	PFOS	10 ng/L	NYSDOH Drinking Water MCL
Laboratory Reporting Limits (RLs)	2 ng/L		NYSDEC PFAS Guidance
Holding time	Extraction within 14 days, analysis within 28 days from extraction		NYSDEC PFAS Guidance
Preservation/Temperature	<6°C upon arrival at the laboratory, extract within 28 days from collection		NYSDEC PFAS Guidance
Isotope Dilution Recovery	50-150%		NYSDEC PFAS Guidance
LCS/LCSD & MS/MSD	70-130%		NYSDEC PFAS Guidance
DUP & LCS/LCSD RPD & MS/MSD RPD	30% for aqueous		NYSDEC PFAS Guidance for field duplicate
Surrogate	20-150%		Limits established by laboratory (Alpha)
Initial Calibration	%RSD within 20%, signal to noise ratio>3		NYSDEC PFAS Guidance
Continuing Calibration	within 30% true value		NYSDEC PFAS Guidance

References

NYSDEC, 2023. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), Under NYSDEC's Part 375 Remedial Programs.

QC = Quality Control, MCL = Maximum Contaminant Level,
PFOA = Perfluorooctanoic Acid, PFOS = Perfluorooctanesulfonic Acid or Perfluorooctane Sulfonate

TABLE 3
Groundwater Analytical Results
50 Commercial Street Redevelopment Site
Brooklyn, NY

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
		NY-AWQS	NY-TOGS-GA																												
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																															
Methylene chloride	75-09-2	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,1-Dichloroethane	75-34-3	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Chloroform	67-66-3	7	7	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Carbon tetrachloride	56-23-5	5	5	ND		0.5	0.13	ND		2.5	0.67	ND		5	1.3	ND		1000	270	ND		0.5	0.13	ND		0.5	0.13	ND		50	13
1,2-Dichloropropane	78-87-5	1	1	ND		1	0.14	ND		5	0.68	ND		10	1.4	ND		2000	270	ND		1	0.14	ND		1	0.14	ND		100	14
Dibromochloromethane	124-48-1	50	50	ND		0.5	0.15	ND		2.5	0.74	ND		5	1.5	ND		1000	300	ND		0.5	0.15	ND		0.5	0.15	ND		50	15
1,1,2-Trichloroethane	79-00-5	1	1	ND		1.5	0.5	ND		7.5	2.5	ND		15	5	ND		3000	1000	ND		1.5	0.5	ND		1.5	0.5	ND		150	50
Tetrachloroethene	127-18-4	5	5	0.36	J	0.5	0.18	1.1	J	2.5	0.9	ND		5	1.8	450	J	1000	360	ND		0.5	0.18	ND		0.5	0.18	ND		50	18
Chlorobenzene	108-90-7	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Trichlorofluoromethane	75-69-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2-Dichloroethane	107-06-2	0.6	0.6	ND		0.5	0.13	ND		2.5	0.66	ND		5	1.3	ND		1000	260	ND		0.5	0.13	ND		0.5	0.13	ND		50	13
1,1,1-Trichloroethane	71-55-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromodichloromethane	75-27-4	50	50	ND		0.5	0.19	ND		2.5	0.96	ND		5	1.9	ND		1000	380	ND		0.5	0.19	ND		0.5	0.19	ND		50	19
trans-1,3-Dichloropropene	10061-02-6	0.4	0.4	ND		0.5	0.16	ND		2.5	0.82	ND		5	1.6	ND		1000	330	ND		0.5	0.16	ND		0.5	0.16	ND		50	16
cis-1,3-Dichloropropene	10061-01-5	0.4	0.4	ND		0.5	0.14	ND		2.5	0.72	ND		5	1.4	ND		1000	290	ND		0.5	0.14	ND		0.5	0.14	ND		50	14
1,3-Dichloropropene, Total	542-75-6			ND		0.5	0.14	ND		2.5	0.72	ND		5	1.4	ND		1000	290	ND		0.5	0.14	ND		0.5	0.14	ND		50	14
1,1-Dichloropropene	563-58-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromoform	75-25-2	50	50	ND		2	0.65	ND		10	3.2	ND		20	6.5	ND		4000	1300	ND		2	0.65	ND		2	0.65	ND		200	65
1,1,2,2-Tetrachloroethane	79-34-5	5	5	ND	UJ	0.5	0.17	ND	UJ	2.5	0.84	ND	UJ	5	1.7	ND	UJ	1000	330	ND		0.5	0.17	ND		0.5	0.17	ND	UJ	50	17
Benzene	71-43-2	1	1	ND		0.5	0.16	ND		2.5	0.8	ND		5	1.6	ND		1000	320	ND		0.5	0.16	ND		0.5	0.16	ND		50	16
Toluene	108-88-3	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Ethylbenzene	100-41-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Chloromethane	74-87-3			ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
Bromomethane	74-83-9	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Vinyl chloride	75-01-4	2	2	0.14	J	1	0.07	1.5	J	5	0.36	1.6	J	10	0.71	600	J	2000	140	ND		1	0.07	ND		1	0.07	120		100	7.1
Chloroethane	75-00-3	5	5	ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
1,1-Dichloroethene	75-35-4	5	5	0.29	J	0.5	0.17	2.1	J	2.5	0.84	2	J	5	1.7	ND		1000	340	ND		0.5	0.17	ND		0.5	0.17	17	J	50	17
trans-1,2-Dichloroethene	156-60-5	5	5	ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
Trichloroethene	79-01-6	5	5	140		0.5	0.18	910		2.5	0.88	860		5	1.8	270000		1000	350	ND		0.5	0.18	ND		0.5	0.18	9200		50	18
1,2-Dichlorobenzene	95-50-1	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,3-Dichlorobenzene	541-73-1	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,4-Dichlorobenzene	106-46-7	3	3	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Methyl tert butyl ether	1634-04-4	10	10	0.91	J	2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p/m-Xylene	179601-23-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
o-Xylene	95-47-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Xylenes, Total	1330-20-7			ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
cis-1,2-Dichloroethene	156-59-2	5	5	16		2.5	0.7	260		12	3.5	220		25	7	33000		5000	1400	ND		2.5	0.7	ND		2.5	0.7	4300		250	70
1,2-Dichloroethene, Total	540-59-0			16		2.5	0.7	260		12	3.5	220		25	7	33000		5000	1400	ND		2.5	0.7	ND		2.5	0.7	4300		250	70
Dibromomethane	74-95-3	5	5	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
1,2,3-Trichloropropane	96-18-4	0.04	0.04	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Acrylonitrile	107-13-1	5	5	ND		5	1.5	ND		25	7.5	ND		50	15	ND		10000	3000	ND		5	1.5	ND		5	1.5	ND		500	150
Styrene	100-42-5	5	930	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Dichlorodifluoromethane	75-71-8	5	5	ND	UJ	5	1	ND	UJ	25	5	ND	UJ	50	10	ND	UJ	10000	2000	ND		5	1	ND		5	1	ND	UJ	500	100
Acetone	67-64-1	50	50	ND	UJ	5	1.5	ND	UJ	25	7.3	ND	UJ	50	15	ND	UJ	10000	2900	ND		5	1.5	ND		5	1.5	ND	UJ	500	150
Carbon disulfide	75-15-0	60	60	ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
2-Butanone	78-93-3	50	50	ND		5	1.9	ND		25	9.7	ND		50	19	ND		10000	3900	ND		5	1.9	ND		5	1.9	ND		500	190
Vinyl acetate	108-05-4			ND	UJ	5	1	ND	UJ	25	5	ND	UJ	50	10	ND	UJ	10000	2000	ND		5	1	ND		5	1	ND	UJ	500	100
4-Methyl-2-pentanone	108-10-1			ND		5	1	ND		25	5	ND		50	10	ND		10000	2000	ND		5	1	ND		5	1	ND		500	100
2-Hexanone	591-78-6	50	50	ND	UJ	5	1	ND	UJ	25	5	ND	UJ	50	10	ND	UJ	10000	2000	ND		5	1	ND		5	1	ND	UJ	500	100
Bromochloromethane	74-97-5	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
2,2-Dichloropropane	594-20-7	5	5	ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
1,2-Dibromoethane	106-93-4	0.0006	0.0006	ND		2	0.65	ND		10	3.2	ND		20	6.5	ND		4000	1300	ND		2	0.65	ND		2	0.65	ND		200	65
1,3-Dichloropropane	142-28-9	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,1,1,2-Tetrachloroethane	630-20-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Bromobenzene	108-86-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
n-Butylbenzene	104-51-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
sec-Butylbenzene	135-98-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
tert-Butylbenzene	98-06-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
o-Chlorotoluene	95-49-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p-Chlorotoluene	106-43-4	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.04	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Hexachlorobutadiene	87-68-3	0.5	0.5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Isopropylbenzene	98-82-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
p-Isopropyltoluene	99-87-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Naphthalene	91-20-3	10	10	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
n-Propylbenzene	103-65-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2,3-Trichlorobenzene	87-61-6	5	5	ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
1,2,4-Trichlorobenzene	120-82-1	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,3,5-Trimethylbenzene	108-67-8	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,2,4-Trimethylbenzene	95-63-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
1,4-Dioxane	123-91-1			ND	R	250	61	ND	R	1200	300	ND	R	2500	610	ND	R	500000	120000	ND		250	61	ND		250	61	ND	R	25000	6100
p-Diethylbenzene	105-05-5			ND		2	0.7	ND		10	3.5	ND		20	7	ND		4000	1400	ND		2	0.7	ND		2	0.7	ND		200	70
p-Ethyltoluene	622-96-8			ND		2	0.7	ND		10	3.5	ND		20	7	ND		4000	1400	ND		2	0.7	ND		2	0.7	ND		200	70
1,2,4,5-Tetramethylbenzene	95-93-2	5	5	ND		2	0.54	ND		10	2.7	ND		20	5.4	ND		4000	1100	ND		2	0.54	ND		2	0.54	ND		200	54
Ethyl ether	60-29-7			ND	UJ	2.5	0.7	ND	UJ	12	3.5	ND	UJ	25	7	ND	UJ	5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND	UJ	250	70
trans-1,4-Dichloro-2-butene	110-57-6	5	5	ND		2.5	0.7	ND		12	3.5	ND		25	7	ND		5000	1400	ND		2.5	0.7	ND		2.5	0.7	ND		250	70
Total VOCs				157.7	-	-	-	1174.7	-	-	-	1083.6	-	-	-	304050	-	-	-	-	-	-	-	-	-	-	-	13637	-	-	-

TABLE 3
Groundwater Analytical Results
50 Commercial Street Redevelopment Site
Brooklyn, NY

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
ANALYTE	CAS	NY-AWQS (ug/l)	NY-TOGS-GA (ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
1,4 DIOXANE BY 8270E-SIM																															
1,4-Dioxane	123-91-1			3.22		0.147	0.0332	1.12		0.15	0.0339	1.13		0.147	0.0332	6		3	0.678	ND		0.147	0.0332	-		-	-	3.26		0.15	0.0339
PERFLUORINATED ALKYL ACIDS BY EPA 1633																															
Perfluorobutanoic Acid (PFBA)	375-22-4			0.0104	J	0.0128	0.00205	0.00778		0.00635	0.00102	0.00818		0.00629	0.00101	0.00608	J	0.0128	0.00205	ND		0.00607	0.000971	-		-	-	0.025	J	0.0256	0.0041
Perfluoropentanoic Acid (PFPeA)	2706-90-3			0.0117		0.0064	0.00171	0.00698		0.00317	0.000849	0.00716		0.00315	0.000842	0.0123		0.0064	0.00171	ND		0.00303	0.000812	-		-	-	0.0317		0.0128	0.00342
Perfluorobutanesulfonic Acid (PFBS)	375-73-5			0.00624		0.0032	0.00107	0.00413		0.00159	0.000532	0.00425		0.00157	0.000527	0.00944		0.0032	0.00107	ND		0.00152	0.000508	-		-	-	0.0314		0.0064	0.00214
Perfluorohexanoic Acid (PFHxA)	307-24-4			0.00944		0.0032	0.000944	0.0073		0.00159	0.000468	0.007		0.00157	0.000464	0.00944		0.0032	0.000944	ND		0.00152	0.000447	-		-	-	0.0349		0.0064	0.00189
Perfluoroheptanoic Acid (PFHpA)	375-85-9			0.00688		0.0032	0.00064	0.00722		0.00159	0.000317	0.00669		0.00157	0.000315	0.008		0.0032	0.00064	ND		0.00152	0.000303	-		-	-	0.033		0.0064	0.00128
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4			0.00416		0.0032	0.000768	0.00349		0.00159	0.000381	0.00346		0.00157	0.000378	0.00928		0.0032	0.000768	ND		0.00152	0.000364	-		-	-	0.025		0.0064	0.00154
Perfluorooctanoic Acid (PFOA)	335-67-1			0.0322		0.0032	0.00139	0.0495		0.00159	0.00069	0.0548		0.00157	0.000684	0.102		0.0032	0.00139	ND		0.00152	0.00066	-		-	-	0.927		0.0064	0.00278
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2	27619-97-2			ND		0.0128	0.00432	0.00516	J	0.00635	0.00214	0.00771		0.00629	0.00212	0.0307		0.0128	0.00432	ND		0.00607	0.00205	-		-	-	0.247		0.0256	0.00864
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8			ND		0.0032	0.000864	ND		0.00159	0.000428	ND		0.00157	0.000425	ND		0.0032	0.000864	ND		0.00152	0.00041	-		-	-	ND		0.0064	0.00173
Perfluorononanoic Acid (PFNA)	375-95-1			ND		0.0032	0.00101	0.00143	J	0.00159	0.0005	0.0015	J	0.00157	0.000496	ND		0.0032	0.00101	ND		0.00152	0.000478	-		-	-	ND		0.0064	0.00202
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1			0.00896		0.0032	0.00146	0.0138		0.00159	0.000722	0.0153		0.00157	0.000716	0.004		0.0032	0.00146	ND		0.00152	0.00069	-		-	-	0.0314		0.0064	0.00291
Perfluorodecanoic Acid (PFDA)	335-76-2			ND		0.0032	0.0013	ND		0.00159	0.000643	ND		0.00157	0.000637	ND		0.0032	0.0013	ND		0.00152	0.000614	-		-	-	ND		0.0064	0.00259
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2	39108-34-4			ND		0.0128	0.00498	ND		0.00635	0.00247	ND		0.00629	0.00245	ND		0.0128	0.00498	ND		0.00607	0.00236	-		-	-	ND		0.0256	0.00995
N-Methyl Perfluorooctanesulfonamidoacetic Acid	2355-31-9			ND	UJ	0.0032	0.00174	ND	UJ	0.00159	0.000865	ND	UJ	0.00157	0.000858	ND	UJ	0.0032	0.00174	ND		0.00152	0.000827	-		-	-	ND	UJ	0.0064	0.00349
Perfluoroundecanoic Acid (PFUnA)	2058-94-8			ND	UJ	0.0032	0.00139	ND	UJ	0.00159	0.00069	ND	UJ	0.00157	0.000684	ND	UJ	0.0032	0.00139	ND		0.00152	0.00066	-		-	-	ND	UJ	0.0064	0.00278
Perfluorodecanesulfonic Acid (PFDS)	335-77-3			ND		0.0032	0.000736	ND		0.00159	0.000365	ND		0.00157	0.000362	ND		0.0032	0.000736	ND		0.00152	0.000349	-		-	-	ND		0.0064	0.00147
Perfluorooctanesulfonamide (PFOSA)	754-91-6			ND		0.0032	0.000864	ND		0.00159	0.000428	ND		0.00157	0.000425	ND		0.0032	0.000864	ND		0.00152	0.00041	-		-	-	ND		0.0064	0.00173
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (	2991-50-6			ND	UJ	0.0032	0.00173	ND	UJ	0.00159	0.000857	ND	UJ	0.00157	0.00085	ND	UJ	0.0032	0.00173	ND		0.00152	0.000819	-		-	-	ND	UJ	0.0064	0.00346
Perfluorododecanoic Acid (PFDoA)	307-55-1			ND		0.0032	0.00147	ND		0.00159	0.00073	ND		0.00157	0.000724	ND		0.0032	0.00147	ND		0.00152	0.000698	-		-	-	ND		0.0064	0.00294
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8			ND		0.0032	0.0012	ND		0.00159	0.000595	ND		0.00157	0.00059	ND		0.0032	0.0012	ND		0.00152	0.000569	-		-	-	ND		0.0064	0.0024
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7			ND		0.0032	0.000848	ND		0.00159	0.00042	ND		0.00157	0.000417	ND		0.0032	0.000848	ND		0.00152	0.000402	-		-	-	ND		0.0064	0.0017
PFOA/PFOS, Total				0.0412		0.0032	0.00139	0.0633		0.00159	0.00069	0.0701		0.00157	0.000684	0.106		0.0032	0.00139	ND		0.00152	0.00066	-		-	-	0.958		0.0064	0.00278
SEMIVOLATILE ORGANICS BY GC/MS																															
1,2,4-Trichlorobenzene	120-82-1	5	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
Bis(2-chloroethyl)ether	111-44-4	1	1	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	-		-	-	ND		2	0.5
1,2-Dichlorobenzene	95-50-1	3	3	ND		2	0.45	ND		2	0.45	ND		2	0.45	ND	R	2	0.45	ND		2	0.45	-		-	-	ND	R	2	0.45
1,3-Dichlorobenzene	541-73-1	3	3	ND		2	0.4	ND		2	0.4	ND		2	0.4	ND	R	2	0.4	ND		2	0.4	-		-	-	ND	R	2	0.4
1,4-Dichlorobenzene	106-46-7	3	3	ND		2	0.43	ND		2	0.43	ND		2	0.43	ND		2	0.43	ND		2	0.43	-		-	-	ND		2	0.43
3,3'-Dichlorobenzidine	91-94-1	5	5	ND		5	1.6	ND		5	1.6	ND		5	1.6	ND	R	5	1.6	ND		5	1.6	-		-	-	ND	R	5	1.6
2,4-Dinitrotoluene	121-14-2	5	5	ND	UJ	5	1.2	ND	UJ	5	1.2	ND	UJ	5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
2,6-Dinitrotoluene	606-20-2	5	5	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93	-		-	-	ND		5	0.93
4-Chlorophenyl phenyl ether	7005-72-3			ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	-		-	-	ND		2	0.49
4-Bromophenyl phenyl ether	101-55-3			ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38	-		-	-	ND		2	0.38
Bis(2-chloroisopropyl)ether	108-60-1	5	5	ND		2	0.53	ND		2	0.53	ND		2	0.53	ND	R	2	0.53	ND		2	0.53	-		-	-	ND	R	2	0.53
Bis(2-chloroethoxy)methane	111-91-1	5	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
Hexachlorocyclopentadiene	77-47-4	5	5	ND		20	0.69	ND		20	0.69	ND		20	0.69	ND	UJ	20	0.69	ND		20	0.69	-		-	-	ND	UJ	20	0.69
Isophorone	78-59-1	50	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
Nitrobenzene	98-95-3	0.4	0.4	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77	-		-	-	ND		2	0.77
NDPA/DPA	86-30-6	50	50	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42	-		-	-	ND		2	0.42
n-Nitrosodi-n-propylamine	621-64-7			ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64	-		-	-	ND		5	0.64
Bis(2-ethylhexyl)phthalate	117-81-7	5	5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5	-		-	-	ND		3	1.5
Butyl benzyl phthalate	85-68-7	50	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	-		-	-	ND		5	1.2
Di-n-butylphthalate	84-74-2	50	50	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39	-		-	-	ND		5	0.39
Di-n-octylphthalate	117-84-0	50	50	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3	-		-	-	ND		5	1.3
Diethyl phthalate	84-66-2	50	50	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38	-		-	-	ND		5	0.38
Dimethyl phthalate	131-11-3	50	50	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	-		-	-	ND		5	1.8
Biphenyl	92-52-4			ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46	-		-	-	ND		2	0.46
4-Chloroaniline	106-47-8	5	5	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1	-		-	-	ND		5	1.1
2-Nitroaniline	88-74-4	5	5	ND	UJ	5	0.5	ND	UJ	5	0.5	ND	UJ	5	0.5	ND		5	0.5	ND		5	0.5	-		-	-	ND		5	0.5
3-Nitroaniline	99-09-2	5	5	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81	-		-	-	ND		5	0.81
4-Nitroaniline	100-01-6	5	5	ND		5	0.8	ND		5	0.8	ND		5	0.8	ND	R	5	0.8	ND		5	0.8	-		-	-	ND	R	5	0.8
Dibenzofuran	132-64-9			ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	-		-	-	ND		2	0.5
1,2,4,5-Tetrachlorobenzene	95-94-3	5	5	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44	-		-	-	ND		10	0.44
Acetophenone	98-86-2			ND		5	0.53	ND		5	0.53	ND		5	0.53	3.5	J-	5	0.53	ND		5	0.53	-		-	-	ND	R	5	0.53
2,4,6-Trichlorophenol	88-06-2			ND		5	0.61	ND		5	0.61	ND		5	0.61	ND	UJ	5	0.61	ND		5	0.61	-		-	-	ND	UJ	5	0.61
p-Chloro-m-cresol	59-50-7			ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35	-		-	-	ND		2	0.35
2-Chlorophenol	95-57-8			ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48	-		-	-	ND		2	0.48
2,4-Dichlorophenol	120-83-2	1	2	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41	-		-	-	ND		5	0.41
2,4-Dimethylphenol	105-67-9	50	2	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	-		-	-	ND		5	1.8
2-Nitrophenol	88-75-5			ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85	-		-	-	ND		10	0.85
4-Nitrophenol	100-02-7			ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67	-		-	-	ND		10	0.67
2,4-Dinitrophenol	51-28-5	10	2	ND		20	6.6	ND		20	6.6	ND		20	6.6	ND	UJ	20	6.6	ND		20	6.6	-		-	-	ND	UJ	20	6.6
4,6-Dinitro-o-cresol	534-52-1			ND		10	1.8	ND		10	1.8	ND		10	1.8	ND		10	1.8	ND	UJ	10	1.8	-		-	-	ND	UJ	10	1.8
Phenol	108-95-2	1	2	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57	-		-	-	ND		5	0.57
2-Methylphenol	95-48-7			ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49	-		-	-	ND		5	0.49
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5			ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48	-		-	-	ND		5	0.48
2,4,5-Trichlorophenol	95-95-4			ND		5	0.77	ND		5	0.77	ND		5	0.77	ND	UJ	5	0.77	ND		5	0.77	-		-	-	ND	UJ	5	0.77
Benzoic Acid	65-85-0			ND	R	50	2.6	ND	R	50	2.6	ND	R	50	2.6	ND	UJ	50	2.6	ND		50	2.6	-		-	-	ND	UJ	50	2.6
Benzyl Alcohol	100-51-6			ND		2	0.59	ND		2	0.59	ND		2	0.59	ND		2	0.59	ND		2	0.59	-		-	-	ND		2	0.59
Carbazole	86-74-8			ND		2	0.49	ND		2	0.49	ND		2	0.49	ND	R	2	0.49	ND		2	0.49	-		-	-	ND	R	2	0.49
Total SVOCs				-	-	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3
Groundwater Analytical Results
50 Commercial Street Redevelopment Site
Brooklyn, NY

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
		NY-AWQS	NY-TOGS-GA																												
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS-SIM																															
Acenaphthene	83-32-9	20	20	0.06	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
2-Chloronaphthalene	91-58-7	10	10	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	-		-	-	ND		0.2	0.02
Fluoranthene	206-44-0	50	50	0.42		0.1	0.02	0.03	J	0.1	0.02	0.03	J	0.1	0.02	0.04	J	0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Hexachlorobutadiene	87-68-3	0.5	0.5	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	-		-	-	ND		0.5	0.05
Naphthalene	91-20-3	10	10	ND		0.1	0.05	ND		0.1	0.05	ND		0.1	0.05	14		0.1	0.05	0.05	J	0.1	0.05	-		-	-	ND		0.1	0.05
Benzo(a)anthracene	56-55-3	0.002	0.002	0.05	J	0.1	0.02	0.02	J	0.1	0.02	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Benzo(a)pyrene	50-32-8	0	0	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	-		-	-	ND		0.1	0.02
Benzo(b)fluoranthene	205-99-2	0.002	0.002	0.02	J	0.1	0.01	0.01	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Benzo(k)fluoranthene	207-08-9	0.002	0.002	0.01	J	0.1	0.01	0.01	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Chrysene	218-01-9	0.002	0.002	0.05	J	0.1	0.01	0.02	J	0.1	0.01	0.02	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Acenaphthylene	208-96-8			0.07	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Anthracene	120-12-7	50	50	0.15		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	-		-	-	0.04	J	0.1	0.01
Benzo(ghi)perylene	191-24-2			ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Fluorene	86-73-7	50	50	0.17		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.03	J	0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Phenanthrene	85-01-8	50	50	0.14		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.12		0.1	0.02	ND		0.1	0.02	-		-	-	0.28		0.1	0.02
Dibenzo(a,h)anthracene	53-70-3			ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	-		-	-	ND		0.1	0.01
Pyrene	129-00-0	50	50	0.51		0.1	0.02	0.18		0.1	0.02	0.2		0.1	0.02	0.05	J	0.1	0.02	ND		0.1	0.02	-		-	-	0.03	J	0.1	0.02
2-Methylnaphthalene	91-57-6			ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.57		0.1	0.02	0.03	J	0.1	0.02	-		-	-	ND		0.1	0.02
Pentachlorophenol	87-86-5	1	2	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	0.07	J+	0.8	0.01	ND		0.8	0.01	-		-	-	0.05	J+	0.8	0.01
Hexachlorobenzene	118-74-1	0.04	0.04	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	-		-	-	ND		0.8	0.01
Hexachloroethane	67-72-1	5	5	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	-		-	-	ND		0.8	0.06
Total SVOCs				1.67	-	-	-	0.27	-	-	-	0.29	-	-	-	14.91	-	-	-	0.08	-	-	-	-	-	-	-	0.4	-	-	-
DISSOLVED METALS																															
Aluminum, Dissolved	7429-90-5		2000	15.4		10	3.27	4.62	J	10	3.27	20.3	J	10	3.27	4.24	J	10	3.27	ND		10	3.27	-		-	-	41.9		10	3.27
Antimony, Dissolved	7440-36-0	3	6	ND	U	4	0.42	ND	U	4	0.42	ND	U	4	0.42	ND		4	0.42	0.71	J	4	0.42	-		-	-	ND		4	0.42
Arsenic, Dissolved	7440-38-2	25	50	ND	U	0.5	0.16	0.73		0.5	0.16	0.73		0.5	0.16	ND	U	0.5	0.16	ND		0.5	0.16	-		-	-	ND	U	0.5	0.16
Barium, Dissolved	7440-39-3	1000	2000	40.76		0.5	0.17	82.86		0.5	0.17	89.31		0.5	0.17	99.52		0.5	0.17	ND		0.5	0.17	-		-	-	78.83		0.5	0.17
Beryllium, Dissolved	7440-41-7	3	3	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	-		-	-	ND		0.5	0.1
Cadmium, Dissolved	7440-43-9	5	10	0.06	J	0.2	0.05	0.06	J	0.2	0.05	ND		0.2	0.05	0.56		0.2	0.05	ND		0.2	0.05	-		-	-	1.73		0.2	0.05
Calcium, Dissolved	7440-70-2			155000		100	39.4	161000		100	39.4	162000		100	39.4	167000		100	39.4	45.4	J	100	39.4	-		-	-	136000		100	39.4
Chromium, Dissolved	7440-47-3	50	100	ND		1	0.17	ND		1	0.17	ND		1	0.17	ND		1	0.17	ND		1	0.17	-		-	-	ND		1	0.17
Cobalt, Dissolved	7440-48-4			1.08		0.5	0.16	0.83		0.5	0.16	0.91		0.5	0.16	5.01		0.5	0.16	ND		0.5	0.16	-		-	-	2.05		0.5	0.16
Copper, Dissolved	7440-50-8	200	1000	1.13		1	0.38	1.37		1	0.38	1.63		1	0.38	ND	U	1	0.38	0.67	J	1	0.38	-		-	-	ND	U	1	0.38
Iron, Dissolved	7439-89-6	300	600	30.3	J	50	19.1	ND		50	19.1	23.8	J	50	19.1	ND		50	19.1	ND		50	19.1	-		-	-	45.5	J	50	19.1
Lead, Dissolved	7439-92-1	25	50	ND		1	0.34	ND		1	0.34	ND		1	0.34	ND		1	0.34	ND		1	0.34	-		-	-	ND		1	0.34
Magnesium, Dissolved	7439-95-4	35000	35000	59300		70	24.2	54800		70	24.2	56900		70	24.2	85500		70	24.2	ND		70	24.2	-		-	-	44100		70	24.2
Manganese, Dissolved	7439-96-5	300	600	363.1		1	0.44	1115		1	0.44	1202		1	0.44	4170		1	0.44	ND		1	0.44	-		-	-	7454		1	0.44
Mercury, Dissolved	7439-97-6	0.7	1.4	0.42		0.2	0.09	0.41		0.2	0.09	0.37		0.2	0.09	0.36		0.2	0.09	ND		0.2	0.09	-		-	-	0.28		0.2	0.09
Nickel, Dissolved	7440-02-0	100	200	26.83		2	0.55	3.36		2	0.55	3.36		2	0.55	4.33		2	0.55	ND		2	0.55	-		-	-	5.39		2	0.55
Potassium, Dissolved	7440-09-7			6070		100	30.9	7140		100	30.9	7520		100	30.9	9040		100	30.9	ND		100	30.9	-		-	-	5450		100	30.9
Selenium, Dissolved	7782-49-2	10	20	ND		5	1.73	ND		5	1.73	ND		5	1.73	ND		5	1.73	ND		5	1.73	-		-	-	ND		5	1.73
Silver, Dissolved	7440-22-4	50	100	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	-		-	-	ND		0.4	0.16
Sodium, Dissolved	7440-23-5	20000		81300		100	29.3	79200		100	29.3	85000		100	29.3	274000		100	29.3	236		100	29.3	-		-	-	174000		100	29.3
Thallium, Dissolved	7440-28-0	0.5	0.5	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	-		-	-	ND		1	0.14
Vanadium, Dissolved	7440-62-2			3.61	J	5	1.57	2.22	J	5	1.57	2.35	J	5	1.57	ND		5	1.57	ND		5	1.57	-		-	-	ND		5	1.57
Zinc, Dissolved	7440-66-6	2000	5000	ND		10	3.41	ND		10	3.41	ND		10	3.41	9.62	J	10	3.41	ND		10	3.41	-		-	-	12.66		10	3.41
TOTAL METALS																															
Aluminum, Total	7429-90-5		2000	281		10	3.27	151		10	3.27	186		10	3.27	1570		10	3.27	ND		10	3.27	-		-	-	3960		10	3.27
Antimony, Total	7440-36-0	3	6	0.47	J	4	0.42	ND	U	4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	-		-	-	ND		4	0.42
Arsenic, Total	7440-38-2	25	50	ND	U	0.5	0.16	1.03		0.5	0.16	0.93		0.5	0.16	1.04		0.5	0.16	ND		0.5	0.16	-		-	-	1.38		0.5	0.16
Barium, Total	7440-39-3	1000	2000	45.84		0.5	0.17	87.87		0.5	0.17	93.1		0.5	0.17	113.9		0.5	0.17	0.35	J	0.5	0.17	-		-	-	117.6		0.5	0.17
Beryllium, Total	7440-41-7	3	3	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	ND		0.5	0.1	-		-	-	0.28	J	0.5	0.1
Cadmium, Total	7440-43-9	5	10	0.07	J	0.2	0.05	ND		0.2	0.05	ND		0.2	0.05	0.52		0.2	0.05	ND		0.2	0.05	-		-	-	1.86		0.2	0.05
Calcium, Total	7440-70-2			156000		100	39.4	193000		100	39.4	175000		100	39.4	163000		100	39.4	66.2	J	100	39.4	-		-	-	148000		100	39.4
Chromium, Total	7440-47-3	50	100	1.16		1	0.17	ND	U	1	0.17	ND	U	1	0.17	3.96		1	0.17	0.22	J	1	0.17	-		-	-	9.15		1	0.17
Cobalt, Total	7440-48-4			1.7		0.5	0.16	1.11		0.5	0.16	1.18		0.5	0.16	7.23		0.5	0.16	ND		0.5	0.16	-		-	-	6.74		0.5	0.16
Copper, Total	7440-50-8	200	1000	3.27		1	0.38	2.59		1	0.38	2.81		1	0.38	6.83		1	0.38	0.48	J	1	0.38	-		-	-	12.46		1	0.38
Iron, Total	7439-89-6	300	600	681		50	19.1	488		50	19.1	428		50	19.1	3360		50	19.1	ND		50	19.1	-		-	-	7760		50	19.1
Lead, Total	7439-92-1	25	50	0.62	J	1	0.34	0.57	J	1	0.34	0.81	J	1	0.34	3.08		1	0.34	ND		1	0.34	-		-	-	6.16		1	0.34
Magnesium, Total	7439-95-4	35000	35000	63800		70	24.2	56600		70	24.2	52600		70	24.2	77600		70	24.2	ND		70	24.2	-		-	-	44500		70	24.2
Manganese, Total	7439-96-5	300	600	414.8		1	0.44	1190		1	0.44	1174		1	0.44	3491		1	0.44	ND		1	0.44	-		-	-	6551		1	0.44
Mercury, Total	7439-97-6	0.7	1.4	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	ND		0.2	0.09	-		-	-	ND		0.2	0.09
Nickel, Total	7440-02-0	100	200	32.64		2	0.55	4.08		2	0.55	4.03		2	0.55	8.14		2	0.55	ND		2	0.55	-		-	-	12.78		2	0.55
Potassium, Total	7440-09-7			6400		100	30.9	8660		100	30.9	7960		100	30.9	9500		100	30.9	ND		100	30.9	-		-	-	7180		100	30.9
Selenium, Total	7782-49-2	10	20	ND		5	1.73	ND		5	1.73	ND		5	1.73	3.12	J	5	1.73	ND		5	1.73	-		-	-	6.13		5	1.73
Silver, Total	7440-22-4	50	100	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	ND		0.4	0.16	-		-	-	ND		0.4	0.16
Sodium, Total	7440-23-5	20000		87400		100	29.3	83100		100	29.3	81300		100	29.3	243000		100	29.3	378		100	29.3	-		-	-	163000		100	29.3
Thallium, Total	7440-28-0	0.5	0.5	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	-		-	-	0.15	J	1	0.14
Vanadium, Total	7440-62-2			7.2		5	1.57	3.94	J	5	1.57	3.89	J	5	1.57	5.94		5	1.57	ND		5	1.57	-		-	-	14.89		5	1.57
Zinc, Total	7440-66-6	2000	5000	ND		10	3.41	ND		10	3.41	ND		10	3.41	20.75		10	3.41	ND		10	3.41	-		-	-	39.91		10	3.41

TABLE 3
Groundwater Analytical Results
50 Commercial Street Redevelopment Site
Brooklyn, NY

			SAMPLE ID:	MW-6				MW-7				MW-701				MW-8				EQUIP/FIELD BLANK				TRIP BLANK				MW-4D			
			LAB ID:	L2346742-01				L2346742-02				L2346742-03				L2346742-04				L2346742-05				L2346742-06				L2346742-07			
			COLLECTION DATE:	8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023				8/10/2023			
			SAMPLE DEPTH:																												
			SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER				WATER				WATER			
		NY-AWQS	NY-TOGS-GA																												
ANALYTE	CAS	(ug/l)	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
GENERAL CHEMISTRY																															
Nitrogen, Ammonia	7664-41-7			82		75	24	101		75	24	108		75	24	55	J	75	24	ND		75	24	-		-	-	98	J	150	48
Nitrogen, Nitrite	NONE	1000	2000	133		50	13	35	J	50	13	37	J	50	13	16	J	50	13	ND		50	13	-		-	-	139		50	13
Nitrogen, Nitrate	14797-55-8	10000	20000	417		100	22	218		100	22	216		100	22	35	J	100	22	ND		100	22	-		-	-	2260		100	22
Phosphorus, Total	7723-14-0			69		10	4	35		10	4	38		10	4	250		10	4	ND		10	4	-		-	-	431		50	20
Sulfate	14808-79-8	250000	500000	430000		120000	17000	320000		100000	14000	300000		100000	14000	100000		25000	3400	1500	J	10000	1400	-		-	-	95000		50000	6800
Total Organic Carbon	7440-44-0			2100		500	100	3500		1000	190	3500		1000	190	5400		2000	390	120	J	500	100	-		-	-	2800		1000	190

* Comparison is not performed on parameters with non-numeric criteria.

Detected result above NY-AWQS or NY-TOGS-GA.
RL/MDL above NY-AWQS or NY-TOGS-GA.
NY-AWQS: NY - New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
NY-TOGS-GA: NY - New York TOGS 111 Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.

RL = laboratory reporting limit; MDL = method detection limit.

Qualifiers in red are the qualifiers as a result of the data validation.

J	Estimated; compound was positively identified, and the associated value is the approximate concentration in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	Compound was detected at a concentration below the reported sample quantitation limit; therefore, the reported concentration has been estimated.
R	Rejected; serious deficiencies existed in the ability to analyze the sample and meet quality control (QC) criteria. The presence or absence of the compound cannot be verified.

Attachment I

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Lab: Alpha
MEDIA: Water
Fraction: VOCs

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). The samples were analyzed within 14-day holding time specified by the QAPP.	No	NA
Surrogate Recovery	Yes	---	NA	All VOC surrogate recoveries met the required criteria of 70-130%.	No	NA
Laboratory Control Spike/Laboratory Control Spike Duplicates	No	Chloroethane and ethyl ether LCS/LCSD recoveries below 70% and vinyl acetate LCS/LCSD above 130% for Batch WG1817073.	Chloroethane, ethyl ether, and vinyl acetate results for MW-6, MW-7, MW-701, MW-4D, and MW-8.	All LCS/LCSD recoveries were within the project limits of 70-130% except that LCS/LCSD recoveries for chloroethane (64%/62%) and ethyl ether (62%/60%) were below 70% and LCS/LCSD recoveries for vinyl acetate (150%/140%) were above 130% for Batch WG1817073. Vinyl acetate was not detected in any of the associated sample; no action based on the LCS/LCSD results for vinyl acetate. All LCS/LCSD %RPD were within the project limit of 30%.	Yes	Non-detected chloroethane and ethyl ether results for MW-6, MW-7, MW-701, MW-4D, and MW-8 were qualified UJ.
Matrix Spike/Matrix Spike Duplicates	NA	---	NA	MS/MSD analysis was not performed for any sample in this SDG.	No	NA
Method Blank	Yes	---	NA	The method blank results show no detections of target VOC analytes.	No	NA
Field/Trip Blank	Yes	---	NA	An equipment blank and a trip blank were collected for this SDG. No target analytes were detected in either the equipment blank or the trip blank.	No	NA
Field Duplicate Analysis	Yes	---	NA	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes.	No	NA
Initial Calibration	No	RRF for 1,4-dioxane <0.01 for VOA101.	The 1,4-dioxane results for MW-6, MW-7, MW-701, MW-4D, and MW-8.	Initial calibration was conducted on 07/27/23 17:16 (instrument ID VOA101) through 21:43, and the results for all target analytes met the limits of %RSD below 20% and RRFs>0.01 or with correlation coefficient >0.995 except 1,4-dioxane. RRF for 1,4-dioxane <0.01. 1,4-dioxane was not detected in any associated sample. Initial calibration information was available for VOA108; which was associated with equipment blank, trip blank, and method blank results. The initial calibration results were not reviewed.	Yes	The 1,4-dioxane non-detected results for MW-6, MW-7, MW-701, MW-4D, and MW-8 via VOA method were rejected.
Initial Calibration Verification (ICV)/ Continuing Calibration/Calibration Verification (CCV)	No	%Ds above project limit for dichlorodifluoromethane, chloromethane, vinyl acetate, 2-hexanone, 1,1,2,2-tetrachloroethane. RRF for 1,4-dioxane<0.01 for ICV for VOA101. %Ds above project limit for chloroethane, ethyl ether, acetone, trans-1,2-dichloroethene, vinyl acetate, 2,2-dichloropropane, 2-hexanone, and 1,2,3-trichlorobenzene. RRF for 1,4-dioxane<0.01 for CCV for VOA101.	Dichlorodifluoromethane, chloromethane, vinyl acetate, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,4-dioxane, chloroethane, ethyl ether, acetone, trans-1,2-dichloroethene, 2,2-dichloropropane, 2-hexanone, and 1,2,3-trichlorobenzene results for MW-6, MW-7, MW-701, MW-4D, and MW-8.	ICV was performed on 7/27/23 11:56pm (VOA101). %Ds were within the 20% limit except dichlorodifluoromethane (49%), chloromethane (29%), vinyl acetate (35%), 2-hexanone (20.4%), 1,1,2,2-tetrachloroethane (22%). RRFs>0.01 except 1,4-dioxane. CCV was performed on 8/14/23 07:54 (VOA101). %Ds were within the 20% limit except chloroethane (36%), ethyl ether (38%), acetone (21%), trans-1,2-dichloroethene (20.3%), vinyl acetate (52%), 2,2-dichloropropane (20.2%), 2-hexanone (26%), and 1,2,3-trichlorobenzene (20.2%). RRFs>0.01 for all analytes but 1,4-dioxane. ICV and CCV for VOA108 were not evaluated.	Yes	Dichlorodifluoromethane, chloromethane, vinyl acetate, 2-hexanone, 1,1,2,2-tetrachloroethane, chloroethane, ethyl ether, acetone, trans-1,2-dichloroethene, 2,2-dichloropropane, 2-hexanone, and 1,2,3-trichlorobenzene results for MW-6, MW-7, MW-701, MW-4D, and MW-8 were qualified (detects were qualified J and non-detects were qualified UJ). 1,4-Dioxane non-detected results for MW-6, MW-7, MW-701, MW-4D, and MW-8 were rejected.
Target Analyte Identification	No	Trichloroethene and 1,1-dichloroethene in listed samples.	MW-6/MW-7/MW-701/MW-8/MW-4D: trichloroethene. MW-701: 1,1-dichloroethene.	The difference between the sample spectrum and the reference spectrum was generally within 20% with exception of the following: MW-6/MW-7/MW-701/MW-8/MW-4D: trichloroethene. MW-701: 1,1-dichloroethene.	No	NA
Instrument Performance Check	Yes	---	NA	All instrument performance checks met the EPA 8260B requirements, the project specified limits, and the laboratory established criteria.	No	NA
Internal Standard Responses & Retention Time	Yes	---	NA	The internal standard (ISTD) responses and retention times (RT) for all internal standards in all samples in this SDG were within the project limit (i.e., 50-200% of standard, and RT within 10 seconds of standard).	No	NA

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Lab: Alpha
MEDIA: Water
Fraction: SVOCs

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). All samples were extracted within 7 days and analyzed within 40 days from extraction, which met the requirement specified in the QAPP.	No	NA
Surrogate Recovery	No	2-Fluorophenol and phenol-d6 surrogate recoveries for the method blank for Batch WG1815494 were below the laboratory established limits (5% and 7% vs. 21-120% and 10-120%).	The phenolic results for the method blank for Batch WG1815494.	All SVOC surrogate recoveries met the laboratory established criteria except that the 2-fluorophenol and phenol-d6 surrogate recoveries for the method blank for Batch WG1815494 were below the laboratory established limits (5% and 7% vs. 21-120% and 10-120%). No action was taken based on the surrogate recovery results.	No	NA
Laboratory Control Spike/Laboratory Control Spike Duplicates	No	For Batch WG1815494, the LCS and/or LCSD recoveries for 1,2-dichlorobenene, 1,3-dichlorobenzene, bis(2-chloroisopropyl)ether, hexachloroethane, 4-nitroaniline, acetophenone, carbazole, 3,3'-dichlorobenzidine were below the laboratory established limits. For Batch WG1816307, the LCS recovery for benzoic acid was below the laboratory established limit. The LCS/LCSD %RPDs for benzoic acid and 2,4-dinitrophenol were above the project limit.	1,2-Dichlorobenene, 1,3-dichlorobenzene, bis(2-chloroisopropyl)ether, 4-nitroaniline, acetophenone, carbazole, 3,3'-dichlorobenzidine results for MW-8, MW-4D, and the equipment blank sample. Benzoic acid and 2,4-dinitrophenol results for MW-6, MW-7, and MW-701.	All LCS/LCSD recoveries were within the laboratory established limits and the LCS/LCSD %RPDs were with the project limit of 30% following exceptions: For Batch WG1815494, the LCS/LCSD recoveries for 1,2-dichlorobenene (37%/38%), 1,3-dichlorobenzene (36%/37%), bis(2-chloroisopropyl)ether (37%/37%), hexachloroethane (35%/38%), 4-nitroaniline (48%/50%), acetophenone (33%/34%), carbazole (50%/54%) and the LCS recovery for 3,3'-dichlorobenzidine (38%) were below the laboratory established limits. Hexachloroethane is not a target analyte. For Batch WG1816307, the LCS recovery for benzoic acid (9%) was below the laboratory established limit (10-164%). LCS/LCSD %RPDs for benzoic acid (107%) and 2,4-dinitrophenol (60%) were above the project limit of 30%. Benzoic acid or 2,4-dinitrophenol was not detected in the associated samples; no action taken based on the LCS/LCSD %RPD results.	Yes	The 1,2-Dichlorobenene, 1,3-dichlorobenzene, bis(2-chloroisopropyl)ether, 4-nitroaniline, acetophenone, carbazole, 3,3'-dichlorobenzidine results for MW-8 and MW-4D were qualified (detects were qualified J- and non-detects were rejected). The benzoic acid non-detected results for MW-6, MW-7, and MW-701 were rejected.
Matrix Spike/Matrix Spike Duplicates	NA	---	NA	MS/MSD analysis was not performed for any sample in this SDG.	No	NA
Method Blank	Yes	---	NA	The method blank results show no detections of target SVOC analytes.	No	NA
Field Blank	Yes	---	NA	An equipment blank was collected for this SDG. No target analytes were detected in the equipment blank.	No	NA
Field Duplicate Analysis	Yes	---	NA	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes.	No	NA
Initial Calibration	Yes	---	NA	Initial calibration was conducted on 04/13/23 01:37 (instrument ID DAKOTA) through 14:37, and the results for all target analytes met the limits of %RSD below 30% and RRFs>0.05, or with correlation coefficients>0.995. Initial calibration was conducted on 07/11/23 19:41 (instrument ID SV106) through 07/12/23 22:50, and the results for all target analytes met the limits of %RSD below 30% and RRFs>0.05, or with correlation coefficients>0.995.	No	NA
Initial Calibration Verification (ICV)/ Continuing Calibration/Calibration Verification (CCV)	No	%Ds for benzoic acid, hexachlorocyclopentadiene, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol for CCV for DAKOTA. %Ds for 2-nitroaniline, 2,4-dinitrotoluene for CCV for SV106.	Benzoic acid, hexachlorocyclopentadiene, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4,6-dinitro-o-cresol results for MW-8 and MW-4D. 2-Nitroanilie and 2,4-dinitrotoluene results for MW-6, MW-7, and MW-701.	ICV was performed on 4/13/23 9:12 through 15:00 (DAKOTA). %Ds were within the 20% limit and RRFs>0.05. ICV was performed on 7/12/23 3:31am through 11:14pm (SV106). %Ds were within the 20% limit and RRFs>0.05. CCV was performed on 8/14/23 22:30 through 23:16 (DAKOTA). %Ds were within the 20% limit for all target analytes but benzoic acid (33%), hexachlorocyclopentadiene (29%), 2,4,6-trichlorophenol (21%), 2,4,5-trichlorophenol (33%), 2,4-dinitrophenol (22%), 4,6-dinitro-o-cresol (26%), and RRFs>0.05. CCV was performed on 8/16/23 20:18 through 21:05 (SV106). %Ds were within the 20% limit for all target analytes but 2-nitroaniline (22%), 2,4-dinitrotoluene (35%), and RRFs>0.05.	Yes	Benzoic acid, hexachlorocyclopentadiene, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, and 4,6-dinitro-o-cresol results for MW-8 and MW-4D were qualified (detects were qualified J and non-detects were qualified UJ). 2-Nitroanilie and 2,4-dinitrotoluene results for MW-6, MW-7, and MW-701 were qualified (detects were qualified J and non-detects were qualified UJ).
Target Analyte Identification	No	For acetophenone in MW-8, significant difference noted between sample spectrum and reference spectrum.	For MW-8: acetophenone.	The difference between the sample spectrum and the reference spectrum was generally within 20% with the following exception: For MW-8: acetophenone.	No	NA
Instrument Performance Check	Yes	---	NA	All instrument performance checks met the EPA 8270D requirement and the laboratory established criteria.	No	NA
Internal Standard Responses & Retention Time	Yes	---	NA	The internal standard (ISTD) responses and retention times (RT) for all internal standards in all samples in this SDG were within the project limit (i.e., 50-200% of standard, and RT within 10 seconds of standard).	No	NA

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Lab: Alpha
MEDIA: Water
Fraction: SVOCs-SIM

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). All samples were extracted within 7 days and analyzed within 40 days from extraction, which met the requirement specified in the QAPP.	No	NA
Surrogate Recovery	No	2,4,6-Tribromophenol recoveries for all samples in this SDG were above the laboratory established limits.	Pentachlorophenol results for all samples in this SDG.	All surrogate recoveries met the laboratory established criteria except that 2,4,6-Tribromophenol recoveries for all samples in this SDG were above the laboratory established limits (10-120%).	Yes	The pentachlorophenol detects for all samples in this SDG via the SVOC-SIM method were qualified J+ while no action for non-detects.
Laboratory Control Spike/Laboratory Control Spike Duplicates	Yes	---	NA	All LCS/LCSD recoveries were within the laboratory established limits. All LCS/LCSD %RPD were within the project limit of 30%.	No	NA
Matrix Spike/Matrix Spike Duplicates	NA	---	NA	MS/MSD analysis was not performed for any sample in this SDG.	No	NA
Method Blank	Yes	---	NA	The method blank results show no detections of target SVOC analytes.	No	NA
Field Blank	No	Naphthalene and 2-methylnaphthalene detected in the equipment blank below RLs.	Naphthalene and 2-methylnaphthalene results in all samples in this SDG via the SVOC-SIM method.	An equipment blank was collected for this SDG. No target analytes were detected in the equipment blank except that (1) naphthalene was detected at 0.05 ug/L, at the MDL of 0.05 ug/L and below the RL of 0.10 ug/L; (2) 2-methylnaphthalene was detected at 0.03 ug/L, above the MDL of 0.02 ug/L and below the RL of 0.10 ug/L. Naphthalene was detected in MW-8 at 14 ug/L, above the RL of 0.10 ug/L. 2-Methylnaphthalene was detected in MW-8 at 0.57 ug/L, above the RL of 0.10 ug/L. Naphthalene or 2-methylnaphthalene was not detected in any other project samples. No action was taken based on the equipment blank results.	No	NA
Field Duplicate Analysis	Yes	---	NA	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes.	No	NA
Initial Calibration	Yes	---	NA	Initial calibration was conducted on 03/06/23 11:49 (instrument ID SV119) through 15:26, and the results for all target analytes met the limits of %RSD below 30% and RRFs>0.05, or with correlation coefficients>0.995.	No	NA
Initial Calibration Verification (ICV)/ Continuing Calibration/Calibration Verification (CCV)	Yes	---	NA	ICV was performed on 3/6/23 03:42pm (SV119). %Ds were within the 20% limit and RRFs>0.05. CCV was performed on 8/16/23 07:25, 8/17/23 07:43, and 8/18/23 09:34 (SV119). %Ds were within the 20% limit for all reported target analytes except that %D for benzo(a)pyrene in 8/18/23 CCV was above the limit (23% vs. 20%). The 8/18/23 CCV was not associated with any project samples; therefore no action was taken based on the CCV results. The RRFs>0.05 for all target analytes.	No	NA
Target Analyte Identification	No	For the referenced SVOCs in the associated sample, significant difference noted between sample spectrums and reference spectrums.	For MW-6: acenaphthene, phenanthrene, benzo(a)anthracene, chrysene. For MW-7: benzo(a)anthracene, chrysene. For MW-701: benzo(a)anthracene, chrysene. For MW-8: fluorene, pentachlorophenol, phenanthrene, anthracene, chrysene. For EQUIP/FIELD BLANK: naphthalene. For MW-4D: pentachlorophenol, phenanthrene, anthracene, pyrene.	The difference between the sample spectrum and the reference spectrum was generally within 20% with the following exceptions: For MW-6: acenaphthene, phenanthrene, benzo(a)anthracene, chrysene. For MW-7: benzo(a)anthracene, chrysene. For MW-701: benzo(a)anthracene, chrysene. For MW-8: fluorene, pentachlorophenol, phenanthrene, anthracene, chrysene. For EQUIP/FIELD BLANK: naphthalene. For MW-4D: pentachlorophenol, phenanthrene, anthracene, pyrene.	No	NA
Instrument Performance Check	Yes	---	NA	All instrument performance checks met the EPA 8270D requirements, the project specified limits, and the laboratory established criteria.	No	NA
Internal Standard Responses & Retention Time	Yes	---	NA	The internal standard (ISTD) responses and retention times (RT) for all internal standards in all samples in this SDG were within the project limit (i.e., 50-200% of standard, and RT within 10 seconds of standard).	No	NA

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Lab: Alpha
MEDIA: Water
Fraction: SVOCs-SIM for 1,4-Dioxane

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). All samples were extracted within 7 days and analyzed within 40 days from extraction, which met the requirement specified in the QAPP.	No	NA
Surrogate Recovery	Yes	---	NA	The 1,4-dioxane-d8 surrogate recoveries met the laboratory established criteria for all samples in this SDG.	No	NA
Laboratory Control Spike/Laboratory Control Spike Duplicates	Yes	---	NA	All LCS/LCSD recoveries were within the laboratory established limits. All LCS/LCSD %RPD were within the project limit of 30%.	No	NA
Matrix Spike/Matrix Spike Duplicates	NA	---	NA	MS/MSD analysis was not performed for any sample in this SDG.	No	NA
Method Blank	Yes	---	NA	The method blank results show no detections of 1,4-dioxane.	No	NA
Field Blank	Yes	---	NA	An equipment blank was collected for this SDG. 1,4-Dioxane was not detected in the equipment blank.	No	NA
Field Duplicate Analysis	Yes	---	NA	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes.	No	NA
Initial Calibration	Yes	---	NA	Initial calibration was conducted on 08/03/23 07:05 through 10:42 (instrument ID BNA11), and the results for all target analytes met the limits of %RSD below 30% and RRFs>0.05, or with correlation coefficients>0.995.	No	NA
Initial Calibration Verification (ICV)/ Continuing Calibration/Calibration Verification (CCV)	Yes	---	NA	ICV was performed on 8/3/23 11:59am (BNA11). %Ds were within the 20% limit and RRFs>0.05. CCV was performed on 8/17/23 07:00 (BNA11). %Ds were within the 20% limit for all reported target analytes. The RRFs>0.05 for all target analytes.	No	NA
Target Analyte Identification	No	Significant difference noted between sample spectrums and reference spectrums for 1,4-dioxane identified in MW-7, MW-701, and MW-4D.	1,4-dioxane identified in MW-7, MW-701, and MW-4D.	The difference between the sample spectrum and the reference spectrum was generally within 20% with the exception of 1,4-dioxane identified in MW-7, MW-701, and MW-4D.	No	NA
Instrument Performance Check	Yes	---	NA	All instrument performance checks met the EPA 8270D requirements, the project specified limits, and the laboratory established criteria.	No	NA
Internal Standard Responses & Retention Time	Yes	---	NA	The internal standard (ISTD) responses and retention times (RT) for all internal standards in all samples in this SDG were within the project limit (i.e., 50-200% of standard, and RT within 10 seconds of standard).	No	NA

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Lab: Alpha
MEDIA: Water
Fraction: PFAS

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). All samples were extracted within 28 days from collection, which met the requirement specified in the NYSDEC PFAS Guidance.	No	NA
Surrogate Recovery	Yes	---	NA	All surrogate recoveries met the laboratory established limits (20-150%).	No	NA
Laboratory Control Spike/Laboratory Control Spike Duplicates	No	LCS recoveries for NMeFOSAA, PFUnA, NEtFOSAA in WG1816359-2 above 130%.	All NMeFOSAA, PFUnA, NEtFOSAA results in this SDG.	All LCS recoveries were within the 70-130% limits with the following exceptions. LCS recoveries for NMeFOSAA (131%), PFUnA (132%), NEtFOSAA (131%) were above the project limit of 130% for WG1816359-2.	Yes	All NMeFOSAA, PFUnA, NEtFOSAA results in this SDG were qualified (detects were qualified J and non-detects were qualified UJ).
Matrix Spike/Matrix Spike Duplicates	NA	---	NA	MS/MSD analysis was not performed for any sample in this SDG.	No	NA
Method Blank	Yes	---	NA	The method blank results show no detections of target PFAS analytes.	No	NA
Field Blank	Yes	---	NA	An equipment blank was collected for this SDG. No target PFAS analytes were detected in the equipment blank.	No	NA
Field Duplicate Analysis	Yes	---	NA	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes.	No	NA
Initial Calibration	Yes	---	NA	Initial calibration was conducted on 08/04/23 15:34 (instrument ID LCMS08) through 17:17, and the results for all target analytes met the limits of %RSD below 20% and signal to noise ratios>3. Initial calibration was conducted on 08/17/23 13:20 (instrument ID LCMS07) through 15:03, and the results for all target analytes met the limits of %RSD below 20% and signal to noise ratios>3.	No	NA
Continuing Calibration/Calibration Verification (CCV)	No	Recoveries for 13C2-4:2FTS, 13C2-6:2FTS, 13C2-8:2FTS were below 70% for CCV performed on LCMS08 on 8/29/23 at 21:05 and/or 23:00. Recoveries for NFDHA, 13C4-PFHpA, D7-NMeFOSE, D9-NEtFOSE, and 13C5-PFNA were above 130% for CCV performed on LCMS08 on 8/29/23 at 21:05 and/or 23:00.	NA	CCV was performed on 8/21/23 11:32 through 16:05 (LCMS07). All recoveries were within 70-130% limits except that the recoveries of multiple PFAS analytes were above 130%. LCMS07 was associated with method blank only; no PFAS analyte was detected in the method blank. No action was taken based on the CCV results for LCMS07. CCV was performed on 8/29/23 13:20 (LCMS08). All recoveries were within 70-130% limits except that the recoveries for PFOA (68%), 8:2FTS (63%), NMeFOSAA (55%), PFOSA (68%), PFTrDA (60%), 9CI-PF3ONS (60%), 3:3FTCA (69.8%), 13C2-4:2FTS (69%), were below 70% and the recoveries for 13C4-PFHpA (161%), 13C3-HFPO-DA (141%), D7-NMeFOSE (179%), D9-NEtFOSE (159%), 13C4-PFOS (132%), 13C5-PFNA (150%), and 18O2-PFHxS (139%) were above 130%. This CCV was not directly before the project sample analysis; so no action based on the 13:20 CCV results. CCV was performed on 8/29/23 21:05 (LCMS08). All recoveries were within 70-130% limits except that the recoveries for 13C2-4:2FTS (66%), 13C2-6:2FTS (68%), 13C2-8:2FTS (63%) were below 70% and the recoveries for 13C4-PFHpA (136%), D7-NMeFOSE (164%), D9-NEtFOSE (135%), and 13C5-PFNA (131%) were above 130%. CCV was performed on 8/29/23 23:00 (LCMS08). All recoveries were within 70-130% limits except that the recoveries for 13C2-4:2FTS (67%), 13C2-6:2FTS (68%), 13C2-8:2FTS (68%) were below 70% and the recoveries for NFDHA (130.3%), 13C4-PFHpA (137%), D7-NMeFOSE (162%), D9-NEtFOSE (139%), and 13C5-PFNA (138%) were above 130%. None of the above referenced analytes was target analyte.	No	NA

Project Name/No. 50 Commercial Street, Brooklyn, NY
SDG: L2346742
Laboratory: Alpha
MEDIA: Water
Fraction: Metals

CRITERIA	Did analyses meet all criteria as specified in the SOPS?	If no, specify analytical deficiency	Associated Samples Impacted by Analytical Deficiency	Comments/Qualifying Actions	Qualifiers Added?	Qualification Action
Data Completeness, Holding Times, & Preservation	Yes	---	NA	The samples were collected on 08/10/2023 and received by laboratory on 08/11/2023 on ice at 2.9°C, 3.3°C, and 3.5°C (for three coolers, respectively). All samples were processed and analyzed within the 6-month holding time limit specified in the QAPP.	No	NA
Laboratory Control Spike/Laboratory Control Spike Duplicates	Yes	---	NA	The LCS recoveries were within the project limits of 70%-130% for total and dissolved metal analyses and for total and dissolved mercury analyses.	No	NA
Matrix Spike/Matrix Spike Duplicates	Yes	---	NA	MS analysis was performed on MW-6 for total metal and dissolved metal analyses and the MS recoveries were within the project limits of 75%-125% with the following exceptions: MS recoveries for total calcium (0%), total magnesium (44%), and total sodium (0%) were below the limit; the original sample concentrations were >4xspike concentrations. So no action based on the total calcium, magnesium, or sodium MS result. MS recovery for dissolved calcium (130%) was above the project limit. The original sample concentration was >4xspike concentration; therefore no action based on dissolved calcium MS result. MS analysis was performed on MW-7 for total and dissolved mercury analyses and the MS recoveries were within the project limits of 75%-125%.	No	NA
Method Blank	No	Dissolved mercury	All dissolved mercury results.	No metal was detected in any method blank(s) associated with the project samples for both the total metal and dissolved metal analyses except that dissolved mercury was detected below the RL in the method blank. Dissolved mercury was detected above the RLs in all samples; no action was taken based on the method blank result for dissolved mercury.	No	NA
Field Blank (Total Metals)	No	Barium, calcium, chromium, and copper detected in equipment blank below RLs. Sodium detected in equipment blank above RL for total metal analysis.	Total metal barium, calcium, chromium, copper, and sodium results in all samples in this SDG.	An equipment blank was collected for this SDG. No target analytes were detected in the equipment blank for total metals except that (1) barium was detected at 0.00035 mg/L, above the MDL of 0.00017 mg/L and below the RL of 0.00050 mg/L; (2) calcium was detected at 0.0662 mg/L, above the MDL of 0.0394 mg/L and below the RL of 0.10 mg/L; (3) chromium was detected at 0.00022 mg/L, above the MDL of 0.00017 mg/L and below the RL of 0.001 mg/L; (4) copper was detected at 0.00048 mg/L, above the MDL of 0.00038 mg/L and below the RL of 0.001 mg/L; (5) sodium was detected at 0.378 mg/L, above the RL of 0.1 mg/L. Barium, calcium, and copper were detected above RLs in all samples. Sodium was detected in all samples above RLs and above 10xblank level; no action based on the equipment blank results for barium, calcium, copper, or sodium. Chromium was detected in MW-7 and MW-701 at concentrations below the RLs; while chromium was detected above RLs in the other samples.	Yes	Total chromium results in MW-7 and MW-701 were qualified as U at RLs.
Field Blank (Dissolved Metals)	No	Antimony, calcium, and copper detected in equipment blank below RLs. Sodium detected in equipment blank above RL for dissolved metal analysis.	Dissolved antimony, calcium, copper, and sodium results in all samples in this SDG.	An equipment blank was collected for this SDG. No target analytes were detected in the equipment blank for dissolved metals except that (1) antimony was detected at 0.00071 mg/L, above the MDL of 0.00042 mg/L and below the RL of 0.0040 mg/L; (2) calcium was detected at 0.0454 mg/L, above the MDL of 0.0394 mg/L and below the RL of 0.10 mg/L; (3) copper was detected at 0.00067 mg/L, above the MDL of 0.00038 mg/L and below the RL of 0.001 mg/L; (4) sodium was detected at 0.236 mg/L, above the RL of 0.1 mg/L. Calcium was detected above RLs in all samples. Sodium was detected in all samples above RLs and above 10xblank level; no action based on the equipment blank results for calcium or sodium. Antimony was detected in MW-6, MW-7, and MW-701 at concentrations below the RLs; while antimony was detected above RLs in the other samples. Copper was detected in MW-8 and MW-4D at concentrations below the RLs; while copper was detected above RLs in the other samples.	Yes	Dissolved antimony results in MW-6, MW-7, and MW-701 were qualified as U at RLs. Dissolved copper results in MW-8 and MW-4D were qualified as U at RLs.
ICB/CCB	No	Arsenic, antimony, and thallium detected below RLs in ICB and/or CCB.	Total arsenic for MW-7, MW-701, MW-8, MW-6, and MW-4D. Total antimony for MW-7, MW-701, and MW-8. Dissolved arsenic and thallium for all samples in this SDG. Dissolved antimony for MW-7, MW-701, MW-8, and MW-4D.	Arsenic was detected at 0.167 ug/L in R1729988-19CCB; total arsenic was detected in MW-6 at 0.35 ug/L below the RL of 0.5 ug/L. Antimony was detected at 0.585 ug/L in R1730917-12CCB; total antimony was detected in MW-7 at 0.54 ug/L (below RL of 4 ug/L), not detected in MW-701 or MW-8. Arsenic was detected at 0.173 ug/L in R1730917-15CCB; total arsenic was detected in MW-7 at 1.03 ug/L (above RL of 0.5 ug/L), in MW-701 at 0.93 ug/L (above RL of 0.5 ug/L), in MW-8 at 1.04 ug/L (above RL of 0.5 ug/L), and in MW-4D at 1.38 ug/L (above RL of 0.5 ug/L). Arsenic and thallium were detected at 0.172 ug/L and 0.151 ug/L, below the RLs in R1730940-10CCB. Dissolved thallium was not detected in MW-6; while dissolved arsenic was detected in MW-6 at 0.32 ug/L (below the RL of 0.5 ug/L). Arsenic, thallium, antimony were detected in one or more of the CCBs associated with the dissolved metal analysis for MW-7, MW-701, MW-8, and MW-4D (i.e., 1730940-19ICB, 1730940-20CCB, 1730940-25CCB) at concentrations below the RLs. Dissolved arsenic was detected above RL in MW-7, MW-701 while detected below RL in MW-8 and MW-4D; dissolved antimony was detected below RL in MW-7, MW-701 but not detected in MW-8 or MW-4D; dissolved thallium was not detected in MW-7, MW-701, MW-8, or MW-4D.	No	Total arsenic in MW-6 was qualified as 0.5 ug/L U. Total antimony in MW-7 was qualified as 4 ug/L U. Dissolved arsenic in MW-6, MW-8, and MW-4D was qualified as 0.5 ug/L U. Dissolved antimony in MW-7 and MW-701 was qualified as 4 ug/L U.
Field Duplicate Analysis	No	Absolute difference between dissolved aluminum for MW-7 and MW-701 above RL.	Dissolved aluminum for MW-7 and MW-701.	A field duplicate pair (MW-7 and MW-701) was collected for this SDG. The field duplicate results met the project QC limits for all analytes but dissolved aluminum. Dissolved aluminum was detected in both MW-7 and MW-701 at concentrations lower than 5xRLs. The absolute difference between MW-7 and MW-701 was above RL.	Yes	Dissolved aluminum results for MW-7 and MW-701 were qualified J.
Initial Calibration	Yes	---	NA	Initial calibration linear correlation coefficient >0.995.	No	NA
Initial Calibration Verification (ICV)/ Continuing Calibration/Calibration Verification (CCV)	Yes	---	NA	Opening and closing CCV recoveries for the CCVs associated with the project samples were within the project limits (90-110%).	No	NA
Laboratory Duplicate Analysis	Yes	---	NA	Laboratory duplicate analysis was performed for MW-6 for total metals and dissolved metals. %RPDs were v	No	NA
Interference Check	Yes	---	NA	Interference check results met the project limits.	No	NA
Internal Standard	Yes	---	NA	%R within 60-125% limits.	No	NA
ICP-MS Tune	Yes	---	NA	%RSD<5%.	No	NA
Serial Dilution	Yes	---	NA	Serial dilution analysis was performed on MW-6 for both the total metal and the dissolved metal analyses an	No	NA
Solids Percentage	Yes	---	NA	The solids percentage for all soil samples in this SDG was above 30%.	No	NA