



QUARTERLY OPERATION AND MAINTENANCE REPORT – THIRD QUARTER 2023

STANTON CLEANERS AREA SUPERFUND SITE

110 Cutter Mill Road
Great Neck, New York

NYDEC Site No. 130072

Prepared For:

New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233
Contract #D009808

Prepared By:

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HRP #: DEC1003.OM

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GENERAL INFORMATION

Project/Site Information:

Stanton Cleaners Area Superfund Site
110 Cutter Mill Road
Great Neck, NY 11021

Consultant Information:

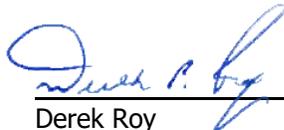
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Report Date: 11/16/2023

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1.0 **INTRODUCTION**

HRP Associates, Inc. (HRP) has been contracted by the New York State Department of Environmental Conservation (NYSDEC) for site management tasks under Standby Engineering Contract D009808. Under this contract, on-going site management was assigned to HRP for the former Stanton Cleaners Site, NYSDEC Site No. 130072, located at 110 Cutter Mill Road in Great Neck, New York (herein referred to as the "Site"). The Site location is depicted on **Figure 1**. The Site is currently listed on the New York State Registry of Inactive Hazardous Waste Sites as a Class 4 site. This designation is for properly closed sites but requires continued management until remedial objectives are achieved. The U.S. Environmental Protection Agency (EPA) oversaw the operations and maintenance (O&M) and site management from 2001 to 2012. NYSDEC assumed responsibility for site management in 2012. The on-going site management was assigned to HRP in April 2020. This work assignment (WA) includes the following tasks:

- Task 1 – Preliminary Activities.
- Task 2 – Site Management Plan.
- Task 3 – System O&M.
- Task 4 – Monitoring and Reporting.
- Task 5 – Periodic Review and Report.
- Task 6 – Site Remedial Systems Optimization.

This quarterly O&M Report summarizes the O&M and monitoring activities completed during the third quarter of 2023 (July through September 2023). This report provides a description of the work performed throughout the reporting period, a discussion of the data obtained, and documents the relevant performance monitoring.

2.0 **SITE BACKGROUND**

2.1 **Site Location and Current Use**

Stanton Cleaners is a former dry-cleaning facility located at 110 Cutter Mill Road in Great Neck, Nassau County, New York (The Site location is shown on **Figure 1**). A dry cleaner had operated at the Site since the 1950s. The property had several different owners in subsequent years and the business may have had several names, most recently Stanton Cleaners. Between about 1958 and 1983, waste liquids from the onsite dry-cleaning processes were discharged, spilled, or leaked onto the ground behind the facility (U.S. Department of Health, 2004). The Site is located approximately 1,000 feet north of an active public water supply well field owned and operated by the Water Authority of Great Neck North (WAGNN). The Site is approximately 0.25 acres and includes a two-story building in which the dry-cleaning business operated, an adjacent one-story boiler/storage building, and a building that houses the current remediation system. Site features are depicted on **Figure 2**. The Site is bordered to the west by Cutter Mill Road, to the north and east by a former indoor tennis court, and to the south by a gasoline station. Adjacent areas that have been affected by the contamination include, but are not limited to, the former neighboring Plaza Tennis Center, the Century Condominium Complex, the North Shore Sephardic Synagogue, and the Long Island Hebrew Academy (LIHA).

2.2 **Remedial History**

In June of 1983, the Nassau County Department of Health (NCDH) inspected the Stanton Cleaners facility. According to NCDH files, the inspection revealed a pipe protruding from the rear side of the building. It was noted that the pipe was connected to the dry-cleaning fluid/water separator that discharged onto the ground in the rear yard sloping away from the building. To determine the impacts of the separator discharge, soil samples were collected by NCDH in the rear of the building. The results of the analysis indicated the soil was contaminated with tetrachloroethene (PCE) at concentrations up to 8,000 parts per million (ppm). Groundwater sampling conducted in January 1998 by a contractor for the NYSDEC detected PCE; 1,2-dichloroethene (DCE); and trichloroethene (TCE) contamination at, and downgradient of Stanton Cleaners.

On June 8, 1998, the NYSDEC requested that the EPA perform a Comprehensive Environmental Response, Compensation, and Liabilities Act (CERCLA) authorized emergency response action at the Site to address contaminated groundwater impacting the nearby public water supply. The Stanton Cleaners Site was added to the National Priorities List (NPL) on May 17, 1999.

A remediation system was subsequently installed at the Site, which includes groundwater extraction and treatment (GWE&T), soil vapor extraction (SVE), and air sparging. Three extraction wells are associated with the GWE&T system and are equipped with submersible pumps. The extracted groundwater is treated through a 2,000-pound liquid phase granular activated carbon (GAC) vessel prior to discharge to the storm sewer. The SVE system consists of six extraction wells connected to a blower and knockout tank. The extracted vapor is treated through a 3,000-pound vapor phase GAC vessel prior to discharge to the atmosphere. An air sparge system was installed using a compressor to provide sparge air to the screened interval in two wells. Use of the air sparge system was discontinued in December 2014. Per NYSDEC approval, the GWE&T system was shut down in

February 2022, as the concentrations of volatile organic compounds (VOCs) in the influent samples were consistently below their Technical and Operational Guidance Series (TOGS) values.

2.3 Site Cleanup Objectives

On-going remedial actions are being implemented to restore the impacted media (soil, soil vapor, and groundwater) to pre-disposal conditions. The closure criterion will ultimately be determined by the NYSDEC based on the future monitoring data. The Standards, Criteria, and Guidance (SCGs) currently used for the various media being sampled at the Site are summarized below.

- Soil – NYSDEC Environmental Conservation Law (ECL) 6 New York Code of Rules and Regulations (NYCRR) Part 375-6: Remedial Program Soil Cleanup Objectives (SCOs).
- Groundwater – NYSDEC TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
- Soil Vapor – New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion (SVI) in the State of New York.

3.0 OPERATIONS AND MAINTENANCE PROGRAM

The O&M program for the Stanton Cleaners Area Superfund Site includes the following:

- Monthly inspections of the SVE system.
- Monthly inspections of the GWE&T system (operations discontinued in March 2022).
- Quarterly sampling of SVE system influent and effluent. Samples are analyzed for VOCs via EPA method TO-15.
- System discharge point to city sewer sampled and analyzed for compliance with state pollution discharge elimination system (SPDES) Equivalency Parameters (discontinued in December 2021; the GWE&T system has been shut down since March 2022).

HRP assumed O&M and sampling responsibilities for the Site in January 2021. Notes related to system issues are included in **Section 5.0** of this report. HRP performs the monthly, quarterly, and annual sampling activities at the Site as well as the day-to-day O&M of the active remediation systems. HRP prepares daily reports during each visit to the Site that summarize Site activities for that day. The daily reports are included in **Appendix A**.

3.1 Groundwater Extraction and Treatment System Operations and Maintenance

The GWE&T was shut down following the February 2022 O&M event, as approved by the NYSDEC, and is expected to remain off until further notice. The locations of the extraction wells are depicted on **Figure 2**.

3.1.1 GWE&T System Annual SPDES Sampling

Annual SPDES sampling of the GWE&T system was not completed during this quarter, and no further sampling of the effluent is planned since the GWE&T system has been shut down.

3.2 Soil Vapor Extraction System Operations and Maintenance

Air monitoring of the SVE system is performed on a monthly basis. Monitoring includes the field analysis of the following parameters: VOCs, carbon monoxide, oxygen, lower explosive limit, hydrogen sulfide, air velocity (cubic feet per minute (cfm)), temperature, relative humidity, dew point, and vacuum pressure. Originally, the following locations were monitored: SVE-Influent, Post-Blower-Pre-Carbon, EPA-SVE-1 (shallow), EPA-SVE-1 (medium), EPA-SVE-2 (shallow), EPA-SVE-2 (medium), SS-A, SVE-3A, SVE-3B, SVE-1 Combined, SVE-2 Combined, hSVE-1, hSVE-2, and background.

Following system optimization performed in May to June 2022 and the installation of a variable frequency drive (VFD) in November 2022, the monthly SVE operations and monitoring was reduced to the following locations:

- SVE-Influent (pre-treatment)
- Post-Blower (pre-treatment)
- SVE-2 Combined

- SS-3A
- hSVE-1
- hSVE-2
- Background

Monitoring of the SVE system occurred monthly during the third quarter of 2023 on July 20, August 29, and September 28, 2023. Monthly monitoring logs are included in **Appendix B**.

Samples SVE_INF and SVE_EFF were collected from the influent and effluent, respectively, via tedlar bags and analyzed for VOCs by TO-15 on August 29, 2023. Concentrations of PCE were detected in the influent sample (SVE_INF) at 18,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). PCE was detected in the effluent sample (SVE_EFF) at a concentration of 9.2 $\mu\text{g}/\text{m}^3$. Concentrations of TCE were detected in the influent sample at 370 $\mu\text{g}/\text{m}^3$ and were not detected in the effluent sample. Several non-chlorinated VOCs were detected in the effluent including 1,2-dichloropropane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1-ethyl-4-methylbenzene, acetone, benzene, cyclohexane, dichlorodifluoromethane, ethanol, ethylbenzene, heptane, isopropanol, m,p-xylene, o-xylene, styrene, and toluene. Laboratory sample results are included on **Table 1**. The laboratory analytical reports are included in **Appendix C**.

Photoionization detector (PID) readings are collected at each influent leg of the SVE system during each monthly visit. The PID readings at hSVE-1 ranged between 9 to 34 parts per million (ppm); hSVE-2 ranged between 2.5 to 18 ppm; PID readings at SVE-3A were not able to be collected due to moisture buildup in the piping. The readings are recorded on each of the monthly monitoring logs.

The PID readings at the SVE system effluent during each monthly visit were recorded at 0.0 ppm, as recorded on the monthly monitoring logs.

The VelociCalc® meter recorded a flow rate of approximately 17.92 cfm at the SVE influent in July, 21.01 cfm in August, and 23.63 cfm in September 2023. Based on the data available, approximately 2.33 pounds (lbs) of chlorinated VOCs (consisting primarily of PCE, TCE, and cis-1,2-DCE) were removed by the SVE system during the third quarter of 2023. The VOC mass removal for the third quarter of 2023 is summarized on **Table 2**.

4.0 **MONITORING PROGRAM**

The monitoring program for the Stanton Cleaners Area Superfund Site includes the following:

- Quarterly O&M reports.
- Monthly gauging of sixteen monitoring wells for water level (discontinued in April 2023, see **Section 4.1**).
- Semi-annual groundwater sampling of the well network for analysis of VOCs via EPA Method 624.1, per and polyfluoroalkyl substances (PFAS) via Method 1633, and 1,4-dioxane via method 8270.
- Annual SVI sampling at the LIHA.
- Monitoring of the WAGNN supply well (discontinued following shutdown of the GWE&T system).

Based on this monitoring program schedule, the annual SVI sampling at the LIHA was not performed during the third quarter of 2023.

4.1 **Plume Perimeter Monitoring**

Monitoring wells were gauged for water levels during the July 20, 2023, groundwater sampling event to evaluate groundwater flow directions. The locations and number of wells monitored were previously determined by the EPA based on the 2014 *Final Capture Zone Analysis Report*. **Appendix D** includes the groundwater level measurements. **Figure 3** depicts the network of monitoring wells. Monthly gauging was discontinued following the April 2023 O&M event since the gauging activities were conducted to monitor the GWE&T system.

4.2 **Groundwater Monitoring Well Repairs**

No well repairs were conducted during the third quarter of 2023.

4.3 **Groundwater Sampling**

Beginning in January 2023, and at the approval of the NYSDEC, low flow groundwater sampling methodology was replaced with passive diffusion bag (PDB) sampling. Following the January 2023 semi-annual sampling, PDBs were replaced in each well and allowed to equilibrate until the July 2023 sampling event. Routine semi-annual groundwater sampling event was conducted on July 20, 2023. **Table 3** summarizes the groundwater monitoring schedule. **Tables 4** and **5** summarizes the July 2023 groundwater analytical results. The laboratory analytical data reports are included in **Appendix C**, and the groundwater sampling logs are provided in **Appendix D**.

During the July 2023 semi-annual groundwater sampling event, the groundwater samples were analyzed for the presence of VOCs and PFAS. Sampling for 1,4-dioxane was not completed this event. Concentrations of PCE were detected above the Class GA Criteria in the groundwater samples collected from two monitoring wells, EPA-MW-21R and STA-MW-19, at concentrations of 11 micrograms per liter ($\mu\text{g/L}$) and 169 $\mu\text{g/L}$, respectively. EPA-MW-21R is located on the southwestern portion of the Site and ST-MW-19 is located south of the Site across Bayview Avenue. PCE was also

detected in EPA-MW-23, EPA-MW-26, STA-MW-11, STA-MW-12, STA-MW-13, STA-MW-14, STA-MW-16, STA-MW-18, and STA-MW-20 at concentrations below the regulatory standard.

Additional VOCs, including 1,1-dichloroethene, chloroform, methylene chloride, and trichloroethene, were detected below the regulatory standard in groundwater samples collected from the other monitoring wells (EPA-MW-11D, EPA-MW-21R, EPA-MW-23, EPA-MW-26, EPA-MW-9A, MW-100, STA-MW-11, STA-MW-12, STA-MW-13, STA-MW-14, STA-MW-15, STA-MW-16, STA-MW-17, STA-MW-18, STA-MW-19, STA-MW-20).

PFOS was detected in groundwater samples collected from all monitoring wells, except STA-MW-13 and STA-MW-15, at concentrations above the regulatory standard. Perfluorooctanoic acid (PFOA) was also detected in groundwater samples collected from all monitoring wells, except STA-MW-13. Detected concentrations of PFOA exceeded the regulatory standard in all samples, except STA-MW-19 and STA-MW-20.

4.4 Indoor Air Quality Sampling

Indoor air quality sampling was not conducted during this quarter. The next routine annual indoor air sampling event is scheduled for December 2023 at the LIHA.

4.5 WAGNN Public Supply Well Monitoring

Monitoring of the WAGNN public supply well was not conducted and has been discontinued until further notice.

4.6 Fire Safety Inspection Tasks

Monthly fire inspections were completed during the third quarter of 2023. Emergency lighting testing was performed monthly during the third quarter of 2023. All fire safety items are addressed, inspection forms are maintained at the site, and copies are included in **Appendix E**.

5.0 MAINTENANCE ISSUES AND RECOMMENDED SOLUTIONS

Several O&M issues were identified when HRP assumed O&M responsibilities in January 2021. The following lists items that HRP is working to address in 2023:

- Based on discussions with NYSDEC and NYSDOH, the GWE&T system was shut down in the first quarter of 2022; therefore, no repairs will be performed to address issues previously identified with the GWE&T system.
- Soil generated from the installation of two bollards to protect the exterior SVE piping was removed from the Site on August 29, 2023, by Environmental Services. A copy of the non-hazardous waste manifest is included in the August Inspection Report included in **Appendix A**.
- Fire safety inspections are performed monthly.

Maintenance issues and recommended solutions are part of ongoing O&M of the remediation systems in 2023.

6.0 FUTURE ACTIVITIES

Future maintenance and monitoring activities at the Site includes the following:

- Annual indoor air sampling at the LIHA is scheduled to be completed in December 2023.
- The next semi-annual groundwater sampling is scheduled to be completed in the first quarter of 2024.

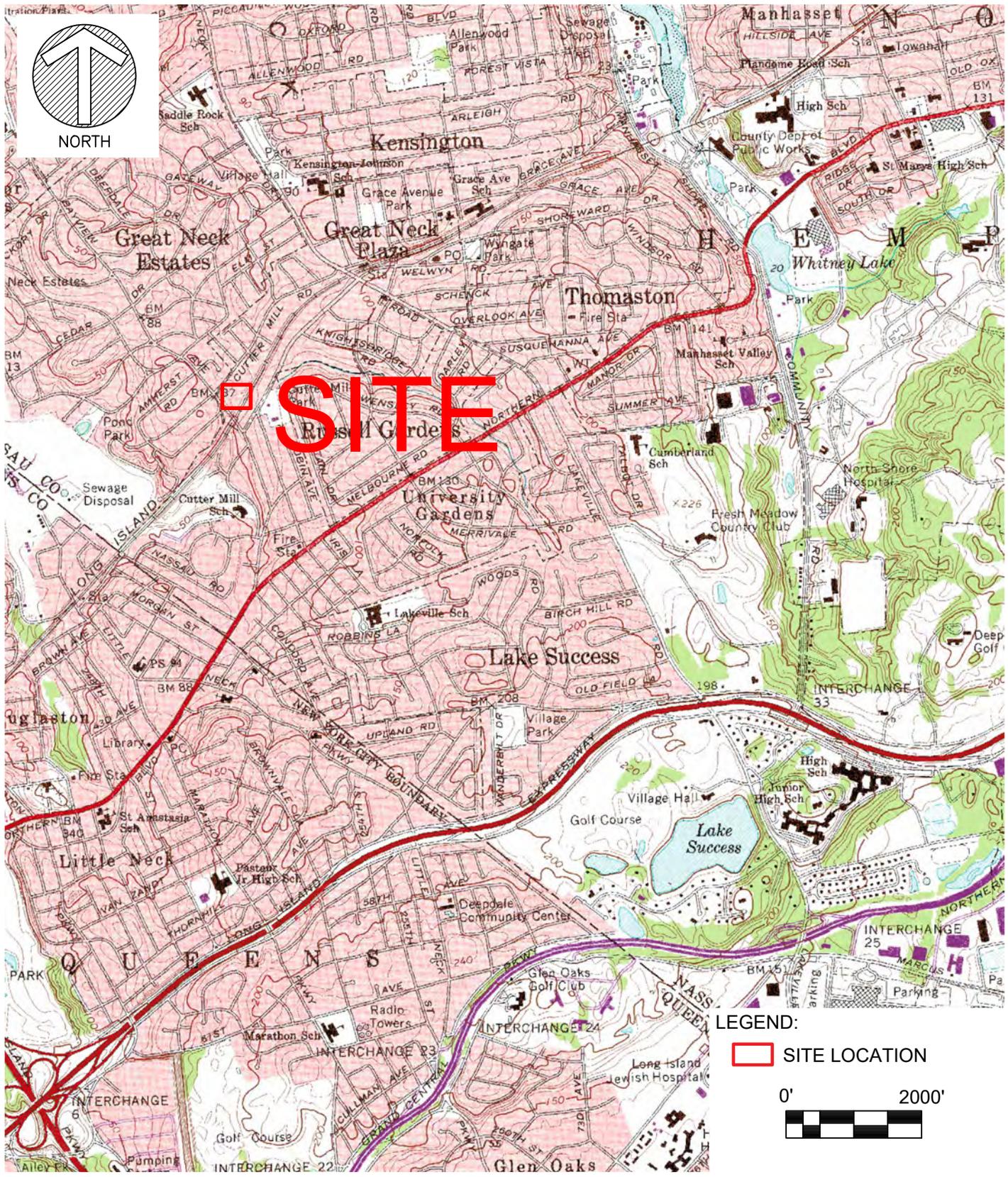
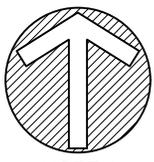
7.0 PROGRESS TOWARD CLEANUP OBJECTIVES

Based on review of O&M field notes and laboratory analysis of SVE-Influent samples analyzed by the laboratory, the SVE system removed approximately 2.33 lbs of VOCs consisting primarily of PCE. The total cost of system O&M during this quarter was \$14,564 (Tasks 3 through 5 of the WA). A cost per pound of vapor phase VOC removal is provided below.

Quarterly Cost Summary					
Period	Quarterly O&M Cost	VOC Mass Removed by SVE (lbs.)	VOC Mass Removed by GWE&T (lbs.)	Total VOC Mass Removed (lbs.)	Cost per Pound of VOC Removal
7/1/2023 through 9/30/2023	\$14,564	2.33	NA	2.33	\$6,251

Based on the laboratory data from SVE system influent and the PID readings at the SVE system during each monthly visit, the SVE system continues to recover VOC mass from the subsurface, and the system will be continued to be evaluated for optimization actions through the fourth quarter of 2023 to maximize mass recovery.

FIGURES



SITE LOCATION MAP

STANTON CLEANERS
110 CUTTER MILL ROAD
GREAT NECK, NEW YORK 11021

1" = 2000'

SCALE:

05/13/2020

ISSUE DATE:

DEC1003.OM

PROJECT NUMBER:

FIGURE

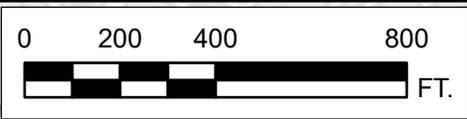
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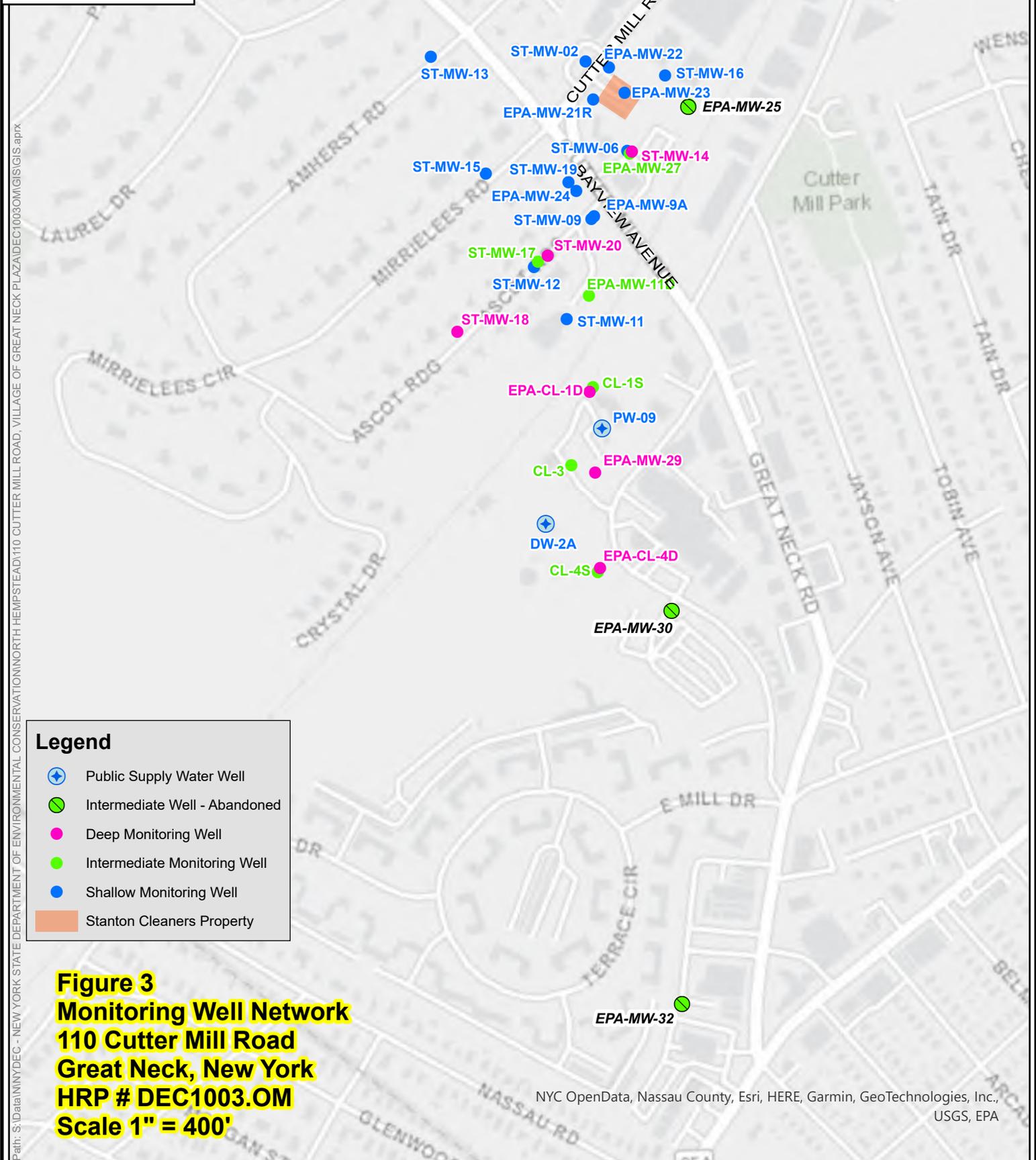


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Legend

- Public Supply Water Well
- Intermediate Well - Abandoned
- Deep Monitoring Well
- Intermediate Monitoring Well
- Shallow Monitoring Well
- Stanton Cleaners Property

Figure 3
Monitoring Well Network
110 Cutter Mill Road
Great Neck, New York
HRP # DEC1003.OM
Scale 1" = 400'

TABLES

Table 1: Soil Vapor Extraction System - Analytical Results
 Stanton Cleaners - NYSDEC Site # 130072
 110 Cutter Mill Road, Great Neck, NY

		ID:	SVE-EFF	SVE-INF
		Date Collected:	08/29/2023	08/29/2023
		Lab Report No:	23I0065	23I0065
Analyte	Unit			
1,1,1-Trichloroethane	µg/m ³	< 1.1	< 55	
1,1,2,2-Tetrachloroethane	µg/m ³	< 1.4	< 69	
1,1,2-Trichloroethane	µg/m ³	< 1.1	< 55	
1,1,2-Trichlorotrifluoroethane (Freon 113)	µg/m ³	< 6.1	< 310	
1,1-Dichloroethane	µg/m ³	< 0.81	< 40	
1,1-Dichloroethene	µg/m ³	< 0.79	< 40	
1,2,4-Trichlorobenzene	µg/m ³	< 1.5	< 74	
1,2,4-Trimethylbenzene	µg/m ³	7.1 D	< 49	
1,2-Dibromoethane (EDB) (ethylene dibromide)	µg/m ³	< 1.5	< 77	
1,2-Dichlorobenzene	µg/m ³	< 1.2	< 60	
1,2-Dichloroethane	µg/m ³	< 0.81	< 40	
1,2-Dichloropropane	µg/m ³	2.5 D	< 46	
1,2-Dichlorotetrafluoroethane (Freon 114)	µg/m ³	< 1.4	< 70	
1,3 Butadiene	µg/m ³	< 0.44	< 22	
1,3,5-trimethyl-benzene	µg/m ³	1.5 D	< 49	
1,3-Dichlorobenzene	µg/m ³	< 1.2	< 60	
1,4-Dichlorobenzene	µg/m ³	< 1.2	< 60	
1,4-Dioxane	µg/m ³	< 7.2	< 360	
1-Ethyl-4-methyl-benzene	µg/m ³	1.2 D	< 49	
2-Butanone (MEK)	µg/m ³	< 24	< 1200	
2-Hexanone (Methyl butyl ketone/MBK)	µg/m ³	< 3.3	< 160	
Acetone	µg/m ³	21 D	< 950	
Benzene	µg/m ³	0.91 D	< 32	
Benzyl chloride	µg/m ³	< 4.1	< 210	
Bromodichloromethane	µg/m ³	< 1.3	< 67	
Bromoform	µg/m ³	< 2.1	< 100	
Bromomethane	µg/m ³	< 0.78	< 39	
Carbon disulfide	µg/m ³	< 6.2	< 310	
Carbon tetrachloride	µg/m ³	< 1.3	< 63	
Chlorobenzene	µg/m ³	< 0.92	< 46	
Chloroethane	µg/m ³	< 0.53	< 26	
Chloroform	µg/m ³	< 0.98	< 49	
Chloromethane	µg/m ³	< 0.83	< 41	
cis-1,2-Dichloroethene	µg/m ³	< 0.79	220 D	
cis-1,3-Dichloropropene	µg/m ³	< 0.91	< 45	
Cyclohexane	µg/m ³	3.5 D	< 34	
Dibromochloromethane	µg/m ³	< 1.7	< 85	
Dichlorodifluoromethane	µg/m ³	2.8 D	< 49	

Table 1: Soil Vapor Extraction System - Analytical Results
 Stanton Cleaners - NYSDEC Site # 130072
 110 Cutter Mill Road, Great Neck, NY

		ID:	SVE-EFF	SVE-INF
		Date Collected:	08/29/2023	08/29/2023
		Lab Report No:	23I0065	23I0065
Analyte	Unit			
Ethanol	µg/m ³	160 D	< 750	
Ethyl Acetate	µg/m ³	< 7.2	< 360	
Ethylbenzene	µg/m ³	2.8 D	< 43	
Heptane	µg/m ³	0.92 D	< 41	
Hexachloro-1,3-butadiene	µg/m ³	< 2.1	< 110	
Hexane	µg/m ³	< 28	< 1400	
Isopropyl Alcohol	µg/m ³	23 D	< 980	
m,p-Xylene	µg/m ³	10 D	< 87	
Methyl isobutyl ketone (MIBK)	µg/m ³	< 0.82	< 41	
Methylene chloride	µg/m ³	< 6.9	< 350	
Methyltertbutyl ether	µg/m ³	< 0.72	< 36	
Naphthalene	µg/m ³	< 1	< 52	
o-Xylene	µg/m ³	4.8 D	< 43	
Propene	µg/m ³	< 14	< 690	
Styrene	µg/m ³	0.95 D	< 43	
Tetrachloroethene	µg/m ³	9.2 D	18000 D	
Tetrahydrofuran	µg/m ³	< 5.9	< 290	
Toluene	µg/m ³	8.2 D	< 38	
trans-1,2-Dichloroethene	µg/m ³	< 0.79	< 40	
trans-1,3-Dichloropropene	µg/m ³	< 0.91	< 45	
Trichloroethene	µg/m ³	< 1.1	370 D	
Trichlorofluoromethane	µg/m ³	< 4.5	< 220	
Vinyl acetate	µg/m ³	< 14	< 700	
Vinyl chloride	µg/m ³	< 0.51	< 26	

Notes

µg/m³ = micrograms per cubic meter

**Table 2: Soil Vapor Extraction System
Summary of VOC Mass Removal
Stanton Cleaners - NYSDEC Site # 130072
110 Cutter Mill Road, Great Neck, NY**

Sample Date	Period (Days)	PCE Concentration (mg/m ³)	TCE Concentration (mg/m ³)	cis-1,2-DCE Concentration (mg/m ³)	Flowrate (cfm)	Ave. PCE Concentration (mg/m ³)	PCE Discharge (lbs)	Ave. TCE Concentration (mg/m ³)	TCE Discharge (lbs)	cis-1,2-DCE Concentration (mg/m ³)	cis-1,2-DCE Discharge (lbs)	Cumulative VOC Mass Removed (lbs)
3/20/2020	1	34.00	0.410	0.40	189	17.00	0.29	0.21	0.00	0.20	0.00	0
6/3/2020	75	10.00	0.280	0.40	189	22.00	28.03	0.35	0.44	0.40	0.00	28.47
9/1/2020	90	12.00	0.390	0.32	189	11.00	16.82	0.34	0.51	0.36	0.00	45.81
12/7/2020	97	5.30	0.160	0.15	186	8.65	14.03	0.28	0.45	0.235	0.00	60.28
12/24/2020	17	5.30	0.160	0.15	186	5.30	1.51	0.16	0.05	0.150	0.00	61.84
SVE Temporarily Shut Down												
3/18/2021	1	0.00	0.022	0.000	186	0.00	0.00	0.01	0.00	0.000	0.00	61.84
3/31/2021	13	0.00	0.022	0.000	186	0.00	0.00	0.02	0.00	0.00	0.00	61.84
6/30/2021	91	0.20	0.006	0.007	21.8	0.10	0.02	0.01	0.00	0.00	0.00	61.86
9/28/2021	90	1.00	0.047	0.044	20.07	0.60	0.10	0.03	0.00	0.03	0.00	61.96
12/20/2021	83	0.00	0.000	0.000	7.20	0.50	0.03	0.02	0.00	0.02	0.00	61.99
3/31/2022	101	5.80	0.170	0.170	23.36	2.90	0.62	0.09	0.02	0.09	0.00	62.62
4/26/2022	26	3.10	0.140	0.150	23.77	4.45	0.25	0.16	0.01	0.16	0.00	62.88
5/26/2022	30	3.50	0.120	0.120	20.78	3.30	0.18	0.13	0.01	0.14	0.00	63.07
6/22/2022	27	2.20	0.097	0.089	27.30	2.85	0.19	0.11	0.01	0.10	0.00	63.27
7/28/2022	36	12.00	0.360	0.260	21.48	7.10	0.49	0.23	0.02	0.17	0.00	63.78
10/25/2022	89	0.099	0.029	0.083	20.74	6.05	1.00	0.19	0.03	0.17	0.00	64.81
11/29/2022	35	0.56	0.070	0.095	21.19	0.33	0.02	0.05	0.00	0.09	0.00	64.84
12/19/2022	20	0.16	0.038	0.100	17.85	0.36	0.01	0.05	0.00	0.09	0.00	64.85
1/5/2023	17	0.44	0.037	0.074	22.04	0.30	0.01	0.04	0.00	0.17	0.00	64.86
2/15/2023	41	5.90	0.170	0.250	18.34	3.17	0.21	0.10	0.01	0.16	0.00	65.08
5/25/2023	99	7.10	0.200	0.150	15.60	6.50	0.90	0.19	0.03	0.20	0.00	66.01
8/29/2023	96	18.00	0.370	0.220	21.01	12.55	2.28	0.29	0.05	0.19	0.00	68.34

Notes:

PCE = Tetrachloroethylene

TCE = Trichloroethylene

Cis-1,2-DCE = cis-1,2-dichloroethylene

cfm = cubic feet per minute

ave. = average

lbs = pounds

mg/m³ = milligrams per cubic meter

SVE system was shut down between 12/24/2020 and 3/18/2021

SVE system was shut down between 11/04/22 and 11/29/2022 for carbon replacement

Table 3: Well Monitoring Schedule
 Stanton Cleaners Area Superfund Site
 110 Cutter Mill Road, Great Neck, NY

Well ID	Monthly Gauging	Semi-Annual Sampling
EPA-MW-9A	x	x
EPA-MW-11D	x	x
EPA-MW-21R	x	x
EPA-MW-22		
EPA-MW-23	x	x
EPA-MW-26	x	x
EPA-MW-27	x	x
ST-MW-02		
ST-MW-11	x	x
ST-MW-12	x	x
ST-MW-13	x	x
ST-MW-14	x	x
ST-MW-15	x	x
ST-MW-16	x	x
ST-MW-17	x	x
ST-MW-18	x	x
ST-MW-19	x	x
ST-MW-20	x	x
EPA-CL-4D		
CL-4S		

Note: Semi-annual sampling conducted in January and July

**Table 4. Semi-Annual Groundwater Sampling Analytical Results - VOCs
110 Cutter Mill Road, Village of Great Neck Plaza, NY
HRP# DEC1003.OM**

	Sample ID:	EPA-MW-11D	EPA-MW-21R	EPA-MW-23	EPA-MW-26	EPA-MW-27	EPA-MW-9A	MW-100	STA-MW-11	STA-MW-12
	Date Collected:	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23
	Lab Report Number:	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145
Parameter	NYDEC Class GA Criteria									
Volatile Organic Compounds (VOCs)	µg/L									
1,1,1-Trichloroethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,1,2,2-Tetrachloroethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,1,2-Trichloroethane	1	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,1-Dichloroethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,1-Dichloroethene	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,2-Dichlorobenzene	3	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,2-Dichloroethane	0.6	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,2-Dichloropropane	1	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,3-Dichlorobenzene	3	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
1,4-Dichlorobenzene	3	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Benzene	1	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U
Bromodichloromethane	50	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Bromoform	50	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Bromomethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Carbon tetrachloride	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Chlorobenzene	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Chloroethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Chloroform	7	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Chloromethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
cis-1,3-Dichloropropene	0.4	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Dibromochloromethane	50	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Ethylbenzene	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
m,p-Xylene	ND	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Methylene chloride	5	0.230 J	0.260 J	0.260 J	0.270 J	< 5.00 U	0.250 J	0.250 J	0.220 J	0.210 J
Methyltertbutyl ether	10	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
o-Xylene	5	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U
Tetrachloroethene	5	< 2.00 U	11	0.550 J	0.400 J	< 2.00 U	< 2.00 U	< 2.00 U	0.170 J	1.50 J
Toluene	5	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U	< 1.00 U
trans-1,2-Dichloroethene	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
trans-1,3-Dichloropropene	0.4	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Trichloroethene	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Trichlorofluoromethane	5	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U
Vinyl chloride	2	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U

Legend

- <1 Parameter not detected above the laboratory reporting limit
- 1** Parameter reported at a concentrations greater than NYSDEC Class GA Criteria
- 1** Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

Notes

µg/L = micrograms per liter
 ND = not determined
 NYSDEC = New York State Department of Environmental Conservation



Table 4. Semi-Annual Groundwater Sampling Analytical Results - VOCs
110 Cutter Mill Road, Village of Great Neck Plaza, NY
HRP# DEC1003.OM

Sample ID:	STA-MW-13	STA-MW-14	STA-MW-15	STA-MW-16	STA-MW-17	STA-MW-18	STA-MW-19	STA-MW-20
Date Collected:	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23
Lab Report Number:	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145
Parameter	NYDEC Class GA Criteria							
Volatile Organic Compounds (VOCs)	µg/L							
1,1,1-Trichloroethane	5	< 2.00 U						
1,1,2,2-Tetrachloroethane	5	< 2.00 U						
1,1,2-Trichloroethane	1	< 2.00 U						
1,1-Dichloroethane	5	< 2.00 U						
1,1-Dichloroethene	5	< 2.00 U	0.960 J	< 2.00 U	< 2.00 U	< 2.00 U	0.390 J	< 2.00 U
1,2-Dichlorobenzene	3	< 2.00 U						
1,2-Dichloroethane	0.6	< 2.00 U						
1,2-Dichloropropane	1	< 2.00 U						
1,3-Dichlorobenzene	3	< 2.00 U						
1,4-Dichlorobenzene	3	< 2.00 U						
Benzene	1	< 1.00 U						
Bromodichloromethane	50	< 2.00 U						
Bromoform	50	< 2.00 U						
Bromomethane	5	< 2.00 U						
Carbon tetrachloride	5	< 2.00 U						
Chlorobenzene	5	< 2.00 U						
Chloroethane	5	< 2.00 U						
Chloroform	7	1.32 J	< 2.00 U	< 2.00 U	< 2.00 U	< 2.00 U	0.160 J	< 2.00 U
Chloromethane	5	< 2.00 U						
cis-1,3-Dichloropropene	0.4	< 2.00 U						
Dibromochloromethane	50	< 2.00 U						
Ethylbenzene	5	< 2.00 U						
m,p-Xylene	ND	< 2.00 U						
Methylene chloride	5	0.250 J	0.240 J	0.240 J	0.220 J	0.220 J	0.260 J	0.230 J
Methyltertbutyl ether	10	< 2.00 U						
o-Xylene	5	< 1.00 U						
Tetrachloroethene	5	0.300 J	0.460 J	< 2.00 U	0.610 J	< 2.00 U	4.17	169
Toluene	5	< 1.00 U						
trans-1,2-Dichloroethene	5	< 2.00 U						
trans-1,3-Dichloropropene	0.4	< 2.00 U						
Trichloroethene	5	< 2.00 U	0.220 J	< 2.00 U	< 2.00 U	< 2.00 U	0.540 J	0.890 J
Trichlorofluoromethane	5	< 2.00 U						
Vinyl chloride	2	< 2.00 U						

Legend

- <1 Parameter not detected above the laboratory reporting limit
- 1** Parameter reported at a concentrations greater than NYSDEC Class GA Criteria
- 1** Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

Notes

µg/L = micrograms per liter
 ND = not determined
 NYSDEC = New York State Department of Environmental Conservation



Table 5. Semi-Annual Groundwater Sampling Analytical Results - PFAS
110 Cutter Mill Road, Village of Great Neck Plaza, NY
HRP# DEC1003.OM

Sample ID:	EPA-MW-11D	EPA-MW-21R	EPA-MW-23	EPA-MW-26	EPA-MW-27	EPA-MW-9A	MW-100	STA-MW-11	STA-MW-12	STA-MW-13	STA-MW-14	STA-MW-15	STA-MW-16	STA-MW-17	STA-MW-18	STA-MW-19	STA-MW-20	
Date Collected:	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	
Lab Report Number:	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	23G3145	
Parameter	NYDEC Class GA Criteria																	
PFAS																		
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (F53B Minor)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	< 3.6	< 20	< 42	< 4.1	< 42	< 4.2	< 3.8
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	1.8 J	< 20	< 42	0.80 J	< 42	< 4.2	< 3.8
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	39	< 43	< 80	840 D	< 20	< 42	240	< 42	< 4.2	< 3.8
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	< 3.6	< 20	< 42	< 4.1	< 42	< 4.2	< 3.8
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)		< 9.1	< 9.6	< 200	< 51	< 110	< 51	< 9.3	< 51	< 110	< 200	< 9	< 51	< 100	< 10	< 110	< 10	< 9.6
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)		< 9.1	< 9.6	< 200	< 51	< 110	< 51	< 9.3	< 51	< 110	< 200	< 9	< 51	< 100	< 10	< 110	< 10	< 9.6
3:3FTCA		< 9.1	< 9.6	< 200	< 51	< 110	< 51	< 9.3	< 51	< 110	< 200	< 9	< 51	< 100	< 10	< 110	< 10	< 9.6
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	< 3.6	< 20	< 42	< 4.1	< 42	< 4.2	< 3.8
5:3FTCA		< 46	< 48	< 1000	< 260	< 530	< 260	< 46	< 260	< 530	< 1000	< 45	< 260	< 520	< 51	< 530	< 52	< 48
7:3FTCA		< 46	< 48	< 1000	< 260	< 530	< 260	< 46	< 260	< 530	< 1000	< 45	< 260	< 520	< 51	< 530	< 52	< 48
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F53B Major)		< 3.6	< 3.8	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	< 3.6	< 20	< 42	< 4.1	< 42	< 4.2	< 3.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)		< 3.6	1.1 J	< 80	< 20	< 42	< 21	< 3.7	< 21	< 43	< 80	< 3.6	< 20	< 42	< 4.1	< 42	< 4.2	< 3.8
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		< 1.8	< 1.9	< 40	< 10	< 21	< 10	< 1.9	< 10	< 21	< 40	< 1.8	< 10	< 21	< 2	< 21	< 2.1	< 1.9
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)		< 1.8	< 1.9	< 40	< 10	< 21	< 10	< 1.9	< 10	< 21	< 40	< 1.8	< 10	< 21	< 2	< 21	< 2.1	< 1.9
Perfluoro-1-octanesulfonamide (FOSA)		< 0.91	0.51 J	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	3.7 J	< 10	< 1	< 11	0.67 J	< 0.96
Perfluoro-3-methoxypropanoic acid (PFMPA)		< 1.8	< 1.9	< 40	< 10	< 21	< 10	< 1.9	< 10	< 21	< 40	< 1.8	< 10	< 21	< 2	< 21	< 2.1	< 1.9
Perfluoro-4-methoxybutanoic acid (PFMBA)		< 1.8	< 1.9	< 40	< 10	< 21	< 10	< 1.9	< 10	< 21	< 40	< 1.8	< 10	< 21	< 2	< 21	< 2.1	< 1.9
Perfluorobutanesulfonic acid (PFBS)		5.6	1.9	< 20	6.3	4.0 J	5.6	5.3	4.4 J	5.4 J	< 20	2.9	1.8 J	4.0 J	3.6	< 11	1.2	1.8
Perfluorobutanoic acid (PFBA)		6.4	5.3	< 80	27	< 42	14 J	6.3	14 J	17 J	< 80	16	11 J	< 42	11	< 42	5.6	3.7 J
Perfluorodecanesulfonic acid (PFDS)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluorodecanoic acid (PFDA)		< 0.91	0.49 J	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	3.8	< 5.1	< 10	0.32 J	< 11	0.76 J	< 0.96
Perfluorododecane sulfonate (PFDoDS)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluorododecanoic acid (PFDoA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluoroheptanesulfonic acid (PFHpS)		< 0.91	0.52 J	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluoroheptanoic acid (PFHpA)		4.5	4.6	6.7 J	29	5.3 J	9.4	4.5	8.3	11 J	< 20	8.3	12	4.8 J	13	4.7 J	8.3	3.1
Perfluorohexanesulfonic acid (PFHxS)		4	7.8	8.2 J	14	4.5 J	6.8	3.7	2.7 J	6.0 J	< 20	2.1	2.9 J	4.6 J	3.4	4.2 J	0.38 J	3
Perfluorohexanoic acid (PFHxA)		9.7	7	13 J	52	12	19	9.6	18	11	< 20	18	11	7.3 J	18	5.0 J	6.8	4
Perfluorononane sulfonic acid (PFNS)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluorononanoic acid (PFNA)		0.30 J	1.5	6.7 J	8.8	< 11	4.6 J	0.31 J	< 5.1	< 11	< 20	3.9	1.4 J	2.2 J	0.94 J	< 11	1.1	0.29 J
Perfluorooctanesulfonic acid (PFOS)	2.7	5.4	7.2	38	72	6.5 J	23	5.4	11	12	< 20	3.4	< 5.1	2.1	17	5.8 J	4.5	3.2
Perfluorooctanoic acid (PFOA)	6.7	15	10	19 J	30	18	31	16	10	31	< 20	19	8.2	14	16	10 J	3.2	6.6
Perfluoropentane sulfonate (PFPeS)		0.65 J	< 0.96	< 20	< 5.1	< 11	< 5.1	0.60 J	< 5.1	< 11	< 20	0.48 J	2.8 J	< 10	0.62 J	< 11	< 1	0.74 J
Perfluoropentanoic acid (PFPeA)		11	14	22 J	84	13 J	23	11	28	11 J	7.8 J	26	19	11 J	38	9.7 J	14	4.8
Perfluorotetradecanoic acid (PFTA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluorotridecanoic acid (PFTTrDA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	< 0.9	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Perfluoroundecanoic acid (PFUnA)		< 0.91	< 0.96	< 20	< 5.1	< 11	< 5.1	< 0.93	< 5.1	< 11	< 20	0.58 J	< 5.1	< 10	< 1	< 11	< 1	< 0.96
Other																		
Total Suspended Solids	mg/l	14	26	1100	320	680	120	< 10	380	500	2000	< 10	470	650	< 10	780	40	< 10

Legend

<1 Parameter not detected above the laboratory reporting limit

1 Parameter reported at a concentrations greater than NYSDEC Class GA Criteria

1 Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

Notes

ug/l = micrograms per liter

ng/l = nanograms per liter

NP = not promulgated/ no applicable cleanup criteria

NYSDEC = New York State Department of Environmental Conservation

PFAS = per- polyfluoroalkyl substances



APPENDIX A

Daily Operation and Maintenance Reports

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 07/20/23

Include (insert) figures with markups showing location of work and job progress

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 07/20/23

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 07/20/23

Site Photographs (Descriptions Below)



View of the space to the southwest of the treatment building; facing east



View of the parking lot to the west of the treatment building; facing north-northwest

Site Inspector(s): David Adam

Date: 7/20/23

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 07/20/23

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If Yes to <u>any</u> of 1-4 above: <ul style="list-style-type: none"> If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry. 	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		

DAILY INSPECTION REPORT

Report No. _____ (Site Name) - NYSDEC Site No. 130072

Date: 07/20/23

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were there any odors detected on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Was noise outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Were vibration readings outside specification and/or above background on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible dust observed beyond the work perimeter on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was turbidity checked at the Montauk Highway outfall?	AM <input type="checkbox"/>	PM <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Was the temporary fabric structure closed at the end of the day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If yes, has Contractor been notified?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<u>Comments:</u> 			

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 08/29/23

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

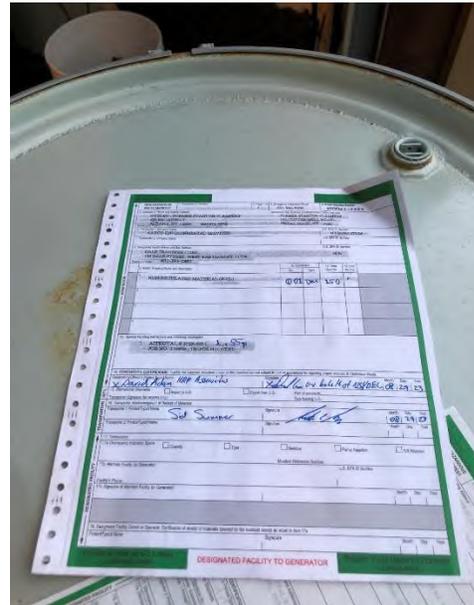
Date: 08/29/23

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

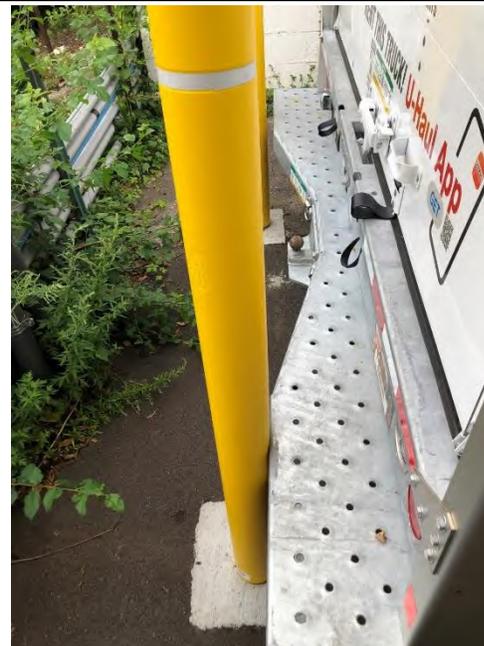
Date: 08/29/23

Site Photographs (Descriptions Below)



A 55-gallon drum with soil generated during the installation of bollards. The drum was picked up on 8/29/2023 by AARCO Environmental Services.

Non-hazardous waste manifest for drum removal



A U-Haul truck parked next to the treatment building

A U-Haul truck parked in contact with a bollard

Site Inspector(s): David Adam

Date: 8/29/2023

DAILY INSPECTION REPORT

Report No. _____ (Site Name) - NYSDEC Site No. 130072

Date: 08/29/23

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If Yes to <u>any</u> of 1-4 above:		
<ul style="list-style-type: none"> If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry. 	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 09/28/23

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 09/28/23

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 09/28/23

Site Photographs (Descriptions Below)



Interior carbon vessel from the former groundwater treatment system

The floor beneath the carbon vessel has staining from condensation water that used to run off the exterior of the tank when the system was operational



SVE controls



Interior piping

Site Inspector(s): David Adam

Date: 9/28/2023

DAILY INSPECTION REPORT

Report No. (Site Name) - NYSDEC Site No. 130072

Date: 09/28/23

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Is the tail gate safety meeting held outdoors?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Were personal protective gloves, masks, and eye protection being used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Are sanitizing wipes, wash stations or spray available?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Comments:</u>		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>If Yes to <u>any</u> of 1-4 above:</p> <ul style="list-style-type: none"> If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry. 	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Comments:</u>		

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-396-3500	4. Waste Tracking Number HHWM219888		
5. Generator's Name and Mailing Address HYPERION ROCKET STATION, BAINBRIDGE ROAD, WADSWORTH, NY 12253			Generator's Site Address (if different than mailing address) ROCKET STATION, BAINBRIDGE ROAD, WADSWORTH, NY 12253				
Generator's Phone: 631-493-2800							
6. Transporter 1 Company Name ADCO ENVIRONMENTAL SERVICES			U.S. EPA ID Number 11740010326				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WASTE TREATMENT PLANT 120 CALLE STREET, WADSWORTH, NY 12253			U.S. EPA ID Number 1075				
Facility's Phone: 631-493-2800							
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. HAZARDOUS WASTE		001	DRUM	150		
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information 1 APPROVAL #2001095, 1 x 55 gal F.L.H. 12/28/00, 11/06/01 PERI							
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Generator's/Officer's Printed/Typed Name X <i>[Signature]</i>			Signature X <i>[Signature]</i>		Month 08	Day 29	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month 08	Day 29
	Transporter 2 Printed/Typed Name			Signature		Month	Day
DESIGNATED FACILITY	17. Discrepancy						
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:						
	17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)							
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name			Signature		Month	Day	

APPENDIX B

SVE System Operation and Maintenance Reports

Stanton Cleaners Area Superfund Site
Soil Vapor Extraction System
Monthly Air Monitoring Log

Date: 7-20-23
HRP #: DEC 1003.0m

	Pipe ID	FID	MultiRae					VelociCalc				
		VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.	Flow
SVE-Influent	5.709		9.8	0	20.9	0	0.0	89.3	11.0	48.1	72.0	17.92
Post-Blower Pre-Carbon*	5.706		19.5	0	20.9	0	0.0	90.4	0.536	52.1	67.3	90.35
EPA-SVE-1 (shallow)	1.913											
EPA-SVE-1 (medium)	1.913											
EPA-SVE-2 (shallow)	1.913											
EPA-SVE-2 (medium)	1.913											
SS-A	1.913											
SVE-3A	1.913		moisture						10.0			
SVE-3B	1.913											
SVE-1 Combined	1.913											
SVE-2 Combined	1.913		8.0	0	20.9	0	0.0	93.8	6.0	79.7	49.0	65.92
hSVE-1			34.2	0	20.9	0	0.0	96.2	8.0	78.7	78.2	47.28
hSVE-2			18.0	0	20.9	0	0.0	97.1	10.0	78.7	78.6	18.22
Background	N/A		0.0	0	20.9	0	0.0	82		72	68.0	

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 Combined	open	open
SVE-3	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)		
SS-A		
SS-B(B)		
SS-B(C)		
L1		
L2		
hSVE-1	open	open
hSVE-2	open	open

0.0 ppm PID Effluent
23.0" Vac at blowers
bleed slightly open
44 Hz VFD
system running upon arrival

Equipment Calibrated by: DJA Air Readings Collected by: DJA

FID - Flame Ionization Detector
CO - Carbon Monoxide
LEL - Lower Explosive Limit
VOC - Volatile Organic Compounds
H2S - Hydrogen Sulfide

Temperature - degrees F
Vacuum Pressure - inches/H2O
%RH - Relative Humidity
Dew Point - degrees F
Flow - cubic feet per minute (CFM)

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

Stanton Cleaners Area Superfund Site
Soil Vapor Extraction System
Monthly Air Monitoring Log

Date: 8-29-23
HRP #: DEC 1003 02

Pipe ID	FID VOC	MultiRae					VelociCalc				
		VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.	Flow
SVE-Influent	5.709	3.2	0	20.9	0	0.0	76.3	12.0	72.6	64.4	21.01
Post-Blower Pre-Carbon*	5.706	18.7	0	20.9	0	0.0	78.3	0.490"	76.6	63.4	104.26
EPA-SVE-1 (shallow)	1.913										
EPA-SVE-1 (medium)	1.913										
EPA-SVE-2 (shallow)	1.913										
EPA-SVE-2 (medium)	1.913										
SS-A	1.913										
SVE-3A	1.913		moisture					10.0			
SVE-3B	1.913										
SVE-1 Combined	1.913										
SVE-2 Combined	1.913	0.0	0	20.9	0	0.0	73.6	5.0	77.8	64.9	65.20
hSVE-1		21.3	0	20.9	0	0.0	75.8	6.0	77.2	64.0	47.9
hSVE-2		2.5	0	20.9	0	0.0	75.7	8.0	75.3	63.8	24.6
Background	N/A	0.0	0	20.9	0	0.0	67	~	82	76	—

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 Combined	open	open
SVE-3	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)		
SS-A		
SS-B(B)		
SS-B(C)		
L1		
L2		
hSVE-1	open	open
hSVE-2	open	open

0.0 ppm PID Effluent
23" SVE blower
bleed slightly open
44 Hz VFD
system running upon arrival

Equipment Calibrated by: DJH Air Readings Collected by: DJH

FID - Flame Ionization Detector
CO - Carbon Monoxide
LEL - Lower Explosive Limit
VOC - Volatile Organic Compounds
H2S - Hydrogen Sulfide

Temperature - degrees F
Vacuum Pressure - inches/H2O
%RH - Relative Humidity
Dew Point - degrees F
Flow - cubic feet per minute (CFM)

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

Stanton Cleaners Area Superfund Site
Soil Vapor Extraction System
Monthly Air Monitoring Log

Date: 9-28-23
HRP #: DEC 1003 OM

Pipe ID	FID	MultiRae					VelociCalc					
		VOC	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pres.	%RH	Dew Pt.	Flow
SVE-Influent	5.709		0.6	0	20.9	0	0.0	68.4	12.0	68.0	55.3	23.67
Post-Blower Pre-Carbon*	5.706		3.6	0	20.9	0	0.0	64.4	0.533	64.3	44.5	90.26
EPA-SVE-1 (shallow)	1.913											
EPA-SVE-1 (medium)	1.913											
EPA-SVE-2 (shallow)	1.913											
EPA-SVE-2 (medium)	1.913											
SS-A	1.913											
SVE-3A	1.913		moisture						11.5	moisture		
SVE-3B	1.913											
SVE-1 Combined	1.913											
SVE-2 Combined	1.913		0.0	0	20.9	0	0.0	62.5	6.8	69.4	48.8	72.24
hSVE-1			9.0	0	20.9	0	0.0	61.3	8.6	63.4	48.3	45.61
hSVE-2			3.2	0	20.9	0	0.0	61.9	10.2	67.4	48.7	27.04
Background	N/A											

	On/Off Prior to Monitoring Date	On/Off After Monitoring Date
SVE-1	closed	closed
SVE-2 Combined	open	open
SVE-3	open	open
SVE-4	closed	closed
EPA-SVE-04R/SSB(A)	↓	↓
SS-A	↓	↓
SS-B(B)	↓	↓
SS-B(C)	↓	↓
L1	↓	↓
L2	↓	↓
hSVE-1	open	open
hSVE-2	open	open

0.0 ppm PID Effluent
24" SVE blower
44 Hz
bleed slightly open
System running upon arrival

Equipment Calibrated by: OJA Air Readings Collected by: OJA

FID - Flame Ionization Detector
CO - Carbon Monoxide
LEL - Lower Explosive Limit
VOC - Volatile Organic Compounds
H2S - Hydrogen Sulfide

Temperature - degrees F
Vacuum Pressure - inches/H2O
%RH - Relative Humidity
Dew Point - degrees F
Flow - cubic feet per minute (CFM)

*SVE-Effluent relabeled as "Post-Blower Pre-Carbon"

APPENDIX C

Laboratory Analytical Reports

August 14, 2023

Payson Long
NYDEC_HRP Associates, Inc. - Farmington, CT
197 Scott Swamp Road
Farmington, CT 06032

Project Location: 110 Cutter Mill Rd., Great Neck, NY
Client Job Number:
Project Number: 130072
Laboratory Work Order Number: 23G3145

Enclosed are results of analyses for samples as received by the laboratory on July 21, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_HRP Associates, Inc. - Farmington, CT
 197 Scott Swamp Road
 Farmington, CT 06032
 ATTN: Payson Long

REPORT DATE: 8/14/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G3145

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cutter Mill Rd., Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EPA-MW-9A	23G3145-01	Ground Water		Draft Method 1633	
EPA-MW-11D	23G3145-02	Ground Water		Draft Method 1633	
EPA-MW-21R	23G3145-03	Ground Water		Draft Method 1633	
EPA-MW-23	23G3145-04	Ground Water		Draft Method 1633	
EPA-MW-26	23G3145-05	Ground Water		Draft Method 1633	
EPA-MW-27	23G3145-06	Ground Water		Draft Method 1633	
STA-MW-11	23G3145-07	Ground Water		Draft Method 1633	
STA-MW-12	23G3145-08	Ground Water		Draft Method 1633	
STA-MW-13	23G3145-09	Ground Water		Draft Method 1633	
STA-MW-14	23G3145-10	Ground Water		Draft Method 1633	
STA-MW-15	23G3145-11	Ground Water		Draft Method 1633	
STA-MW-16	23G3145-12	Ground Water		Draft Method 1633	
STA-MW-17	23G3145-13	Ground Water		Draft Method 1633	
STA-MW-18	23G3145-14	Ground Water		Draft Method 1633	
STA-MW-19	23G3145-15	Ground Water		Draft Method 1633	
STA-MW-20	23G3145-16	Ground Water		Draft Method 1633	
MW-100	23G3145-17	Ground Water		Draft Method 1633	
EB-1	23G3145-18	Equipment Blank Water		Draft Method 1633	
FB-1	23G3145-19	Field Blank		Draft Method 1633	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Draft Method 1633

Qualifications:

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

Total Suspended Solids

23G3145-01[EPA-MW-9A], 23G3145-02[EPA-MW-11D], 23G3145-03[EPA-MW-21R], 23G3145-04[EPA-MW-23], 23G3145-05[EPA-MW-26], 23G3145-06[EPA-MW-27], 23G3145-07[STA-MW-11], 23G3145-08[STA-MW-12], 23G3145-09[STA-MW-13], 23G3145-10[STA-MW-14], 23G3145-11[STA-MW-15], 23G3145-12[STA-MW-16], 23G3145-13[STA-MW-17], 23G3145-14[STA-MW-18], 23G3145-15[STA-MW-19], 23G3145-16[STA-MW-20], 23G3145-17[MW-100]

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C4-PFBA

23G3145-10RE1[STA-MW-14]

Perfluorobutanoic acid (PFBA)

23G3145-10RE1[STA-MW-14]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-9A

Sampled: 7/20/2023 07:44

Sample ID: 23G3145-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	21	7.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoropentanoic acid (PFPeA)	23	10	1.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorohexanoic acid (PFHxA)	19	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoroheptanoic acid (PFHpA)	9.4	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorooctanoic acid (PFOA)	31	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorononanoic acid (PFNA)	4.6	5.1	0.98	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorodecanoic acid (PFDA)	ND	5.1	0.95	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoroundecanoic acid (PFUnA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorododecanoic acid (PFDoA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorobutanesulfonic acid (PFBS)	5.6	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorohexanesulfonic acid (PFHxS)	6.8	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorooctanesulfonic acid (PFOS)	23	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorononanesulfonic acid (PFNS)	ND	5.1	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	21	3.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	21	5.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	21	5.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	5.1	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-MeFOSAA (NMeFOSAA)	ND	5.1	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-EtFOSAA (NEtFOSAA)	ND	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	21	5.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	21	3.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
9Cl-PF3ONS (F53B Minor)	ND	21	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
11Cl-PF3OUdS (F53B Major)	ND	21	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	51	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	260	52	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	260	45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	10	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-9A

Sampled: 7/20/2023 07:44

Sample ID: 23G3145-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	10	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	10	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:03	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	77.9		10-130						8/4/23 0:03	
13C5-PFPeA	75.3		35-150						8/4/23 0:03	
13C5-PFHxA	78.2		55-150						8/4/23 0:03	
13C4-PFHpA	78.6		55-150						8/4/23 0:03	
13C8-PFOA	77.6		60-140						8/4/23 0:03	
13C9-PFNA	76.8		55-140						8/4/23 0:03	
13C6-PFDA	78.6		50-140						8/4/23 0:03	
13C7-PFUnA	80.4		30-140						8/4/23 0:03	
13C2-PFDoA	74.1		10-150						8/4/23 0:03	
13C2-PFTeDA	74.2		10-130						8/4/23 0:03	
13C3-PFBS	75.7		55-150						8/4/23 0:03	
13C3-PFHxS	76.7		55-150						8/4/23 0:03	
13C8-PFOS	79.4		45-140						8/4/23 0:03	
13C2-4:2FTS	67.6		60-200						8/4/23 0:03	
13C2-6:2FTS	78.4		60-200						8/4/23 0:03	
13C2-8:2FTS	80.1		50-200						8/4/23 0:03	
13C8-PFOSA	74.0		30-130						8/4/23 0:03	
D3-NMeFOSA	55.0		15-130						8/4/23 0:03	
D5-NEtFOSA	56.0		10-130						8/4/23 0:03	
D3-NMeFOSAA	80.7		45-200						8/4/23 0:03	
D5-NEtFOSAA	78.2		10-200						8/4/23 0:03	
D7-NMeFOSE	68.4		10-150						8/4/23 0:03	
D9-NEtFOSE	67.6		10-150						8/4/23 0:03	
13C3-HFPO-DA	76.3		25-160						8/4/23 0:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-9A

Sampled: 7/20/2023 07:44

Sample ID: 23G3145-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	120	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-11D

Sampled: 7/20/2023 07:18

Sample ID: 23G3145-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.4	3.6	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoropentanoic acid (PFPeA)	11	1.8	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorohexanoic acid (PFHxA)	9.7	0.91	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoroheptanoic acid (PFHpA)	4.5	0.91	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorooctanoic acid (PFOA)	15	0.91	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorononanoic acid (PFNA)	0.30	0.91	0.17	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorobutanesulfonic acid (PFBS)	5.6	0.91	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.65	0.91	0.22	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorohexanesulfonic acid (PFHxS)	4.0	0.91	0.19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorooctanesulfonic acid (PFOS)	5.4	0.91	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.64	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.63	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.78	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-11D

Sampled: 7/20/2023 07:18

Sample ID: 23G3145-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:19	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.4		10-130				8/4/23 0:19			
13C5-PFPeA	72.8		35-150				8/4/23 0:19			
13C5-PFHxA	75.4		55-150				8/4/23 0:19			
13C4-PFHpA	74.6		55-150				8/4/23 0:19			
13C8-PFOA	75.9		60-140				8/4/23 0:19			
13C9-PFNA	68.8		55-140				8/4/23 0:19			
13C6-PFDA	72.5		50-140				8/4/23 0:19			
13C7-PFUnA	74.6		30-140				8/4/23 0:19			
13C2-PFDoA	70.8		10-150				8/4/23 0:19			
13C2-PFTeDA	69.7		10-130				8/4/23 0:19			
13C3-PFBS	72.0		55-150				8/4/23 0:19			
13C3-PFHxS	74.3		55-150				8/4/23 0:19			
13C8-PFOS	73.3		45-140				8/4/23 0:19			
13C2-4:2FTS	70.7		60-200				8/4/23 0:19			
13C2-6:2FTS	75.6		60-200				8/4/23 0:19			
13C2-8:2FTS	78.8		50-200				8/4/23 0:19			
13C8-PFOSA	70.1		30-130				8/4/23 0:19			
D3-NMeFOSA	53.6		15-130				8/4/23 0:19			
D5-NEtFOSA	55.7		10-130				8/4/23 0:19			
D3-NMeFOSAA	76.7		45-200				8/4/23 0:19			
D5-NEtFOSAA	78.8		10-200				8/4/23 0:19			
D7-NMeFOSE	67.1		10-150				8/4/23 0:19			
D9-NEtFOSE	65.7		10-150				8/4/23 0:19			
13C3-HFPO-DA	72.8		25-160				8/4/23 0:19			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-11D

Sampled: 7/20/2023 07:18

Sample ID: 23G3145-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	14	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-21R

Sampled: 7/20/2023 11:24

Sample ID: 23G3145-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.3	3.8	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoropentanoic acid (PFPeA)	14	1.9	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorohexanoic acid (PFHxA)	7.0	0.96	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoroheptanoic acid (PFHpA)	4.6	0.96	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorooctanoic acid (PFOA)	10	0.96	0.22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorononanoic acid (PFNA)	1.5	0.96	0.18	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorodecanoic acid (PFDA)	0.49	0.96	0.18	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorobutanesulfonic acid (PFBS)	1.9	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.8	0.96	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.52	0.96	0.29	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorooctanesulfonic acid (PFOS)	7.2	0.96	0.30	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.30	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.67	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.94	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluorooctanesulfonamide (PFOSA)	0.51	0.96	0.29	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.40	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.42	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.1	3.8	1.0	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:35	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.66	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.6	1.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	9.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-21R

Sampled: 7/20/2023 11:24

Sample ID: 23G3145-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.83	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:35	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.6		10-130				8/4/23 0:35			
13C5-PFPeA	68.5		35-150				8/4/23 0:35			
13C5-PFHxA	71.1		55-150				8/4/23 0:35			
13C4-PFHpA	71.5		55-150				8/4/23 0:35			
13C8-PFOA	67.1		60-140				8/4/23 0:35			
13C9-PFNA	66.2		55-140				8/4/23 0:35			
13C6-PFDA	69.5		50-140				8/4/23 0:35			
13C7-PFUnA	69.7		30-140				8/4/23 0:35			
13C2-PFDoA	66.0		10-150				8/4/23 0:35			
13C2-PFTeDA	52.9		10-130				8/4/23 0:35			
13C3-PFBS	67.7		55-150				8/4/23 0:35			
13C3-PFHxS	69.9		55-150				8/4/23 0:35			
13C8-PFOS	69.7		45-140				8/4/23 0:35			
13C2-4:2FTS	99.9		60-200				8/4/23 0:35			
13C2-6:2FTS	95.0		60-200				8/4/23 0:35			
13C2-8:2FTS	80.1		50-200				8/4/23 0:35			
13C8-PFOA	64.3		30-130				8/4/23 0:35			
D3-NMeFOSA	43.4		15-130				8/4/23 0:35			
D5-NEtFOSA	41.2		10-130				8/4/23 0:35			
D3-NMeFOSAA	67.9		45-200				8/4/23 0:35			
D5-NEtFOSAA	67.4		10-200				8/4/23 0:35			
D7-NMeFOSE	36.8		10-150				8/4/23 0:35			
D9-NEtFOSE	29.9		10-150				8/4/23 0:35			
13C3-HFPO-DA	66.8		25-160				8/4/23 0:35			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-21R

Sampled: 7/20/2023 11:24

Sample ID: 23G3145-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	26	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-23

Sampled: 7/20/2023 11:12

Sample ID: 23G3145-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	80	29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoropentanoic acid (PFPeA)	22	40	6.9	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorohexanoic acid (PFHxA)	13	20	4.3	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoroheptanoic acid (PFHpA)	6.7	20	5.1	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorooctanoic acid (PFOA)	19	20	4.5	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorononanoic acid (PFNA)	6.7	20	3.8	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorodecanoic acid (PFDA)	ND	20	3.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoroundecanoic acid (PFUnA)	ND	20	5.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorododecanoic acid (PFDoA)	ND	20	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	20	5.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	20	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	20	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	20	4.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.2	20	4.1	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	20	6.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorooctanesulfonic acid (PFOS)	38	20	6.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorononanesulfonic acid (PFNS)	ND	20	5.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	20	6.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	20	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	80	14	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	80	20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	80	22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	20	6.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	20	8.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	20	6.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-MeFOSAA (NMeFOSAA)	ND	20	8.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-EtFOSAA (NEtFOSAA)	ND	20	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	200	53	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	200	49	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	80	21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	80	14	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
9Cl-PF3ONS (F53B Minor)	ND	80	17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
11Cl-PF3OUdS (F53B Major)	ND	80	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	200	36	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	1000	200	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	1000	180	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	40	9.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	40	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-23

Sampled: 7/20/2023 11:12

Sample ID: 23G3145-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	40	8.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	40	17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 0:50	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.2		10-130						8/4/23 0:50	
13C5-PFPeA	75.3		35-150						8/4/23 0:50	
13C5-PFHxA	78.3		55-150						8/4/23 0:50	
13C4-PFHpA	78.0		55-150						8/4/23 0:50	
13C8-PFOA	76.1		60-140						8/4/23 0:50	
13C9-PFNA	76.9		55-140						8/4/23 0:50	
13C6-PFDA	80.8		50-140						8/4/23 0:50	
13C7-PFUnA	80.0		30-140						8/4/23 0:50	
13C2-PFDoA	77.5		10-150						8/4/23 0:50	
13C2-PFTeDA	80.0		10-130						8/4/23 0:50	
13C3-PFBS	78.2		55-150						8/4/23 0:50	
13C3-PFHxS	79.0		55-150						8/4/23 0:50	
13C8-PFOS	80.7		45-140						8/4/23 0:50	
13C2-4:2FTS	69.5		60-200						8/4/23 0:50	
13C2-6:2FTS	81.9		60-200						8/4/23 0:50	
13C2-8:2FTS	81.3		50-200						8/4/23 0:50	
13C8-PFOSA	77.3		30-130						8/4/23 0:50	
D3-NMeFOSA	56.6		15-130						8/4/23 0:50	
D5-NEtFOSA	59.0		10-130						8/4/23 0:50	
D3-NMeFOSAA	86.2		45-200						8/4/23 0:50	
D5-NEtFOSAA	84.2		10-200						8/4/23 0:50	
D7-NMeFOSE	75.4		10-150						8/4/23 0:50	
D9-NEtFOSE	72.5		10-150						8/4/23 0:50	
13C3-HFPO-DA	76.6		25-160						8/4/23 0:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-23

Sampled: 7/20/2023 11:12

Sample ID: 23G3145-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	1100	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-26

Sampled: 7/20/2023 10:39

Sample ID: 23G3145-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	27	20	7.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoropentanoic acid (PFPeA)	84	10	1.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorohexanoic acid (PFHxA)	52	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoroheptanoic acid (PFHpA)	29	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorooctanoic acid (PFOA)	30	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorononanoic acid (PFNA)	8.8	5.1	0.98	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorodecanoic acid (PFDA)	ND	5.1	0.95	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoroundecanoic acid (PFUnA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorododecanoic acid (PFDoA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorobutanesulfonic acid (PFBS)	6.3	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorohexanesulfonic acid (PFHxS)	14	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorooctanesulfonic acid (PFOS)	72	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorononanesulfonic acid (PFNS)	ND	5.1	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	20	3.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	20	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	20	5.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	5.1	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-MeFOSAA (NMeFOSAA)	ND	5.1	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-EtFOSAA (NEtFOSAA)	ND	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	20	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	20	3.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
9Cl-PF3ONS (F53B Minor)	ND	20	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
11Cl-PF3OUdS (F53B Major)	ND	20	4.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	51	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	260	52	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	260	45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-26

Sampled: 7/20/2023 10:39

Sample ID: 23G3145-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	10	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	10	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:06	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	79.8		10-130						8/4/23 1:06	
13C5-PFPeA	75.7		35-150						8/4/23 1:06	
13C5-PFHxA	79.3		55-150						8/4/23 1:06	
13C4-PFHpA	77.5		55-150						8/4/23 1:06	
13C8-PFOA	78.7		60-140						8/4/23 1:06	
13C9-PFNA	75.3		55-140						8/4/23 1:06	
13C6-PFDA	76.2		50-140						8/4/23 1:06	
13C7-PFUnA	77.3		30-140						8/4/23 1:06	
13C2-PFDoA	72.8		10-150						8/4/23 1:06	
13C2-PFTeDA	72.2		10-130						8/4/23 1:06	
13C3-PFBS	75.0		55-150						8/4/23 1:06	
13C3-PFHxS	77.8		55-150						8/4/23 1:06	
13C8-PFOS	76.5		45-140						8/4/23 1:06	
13C2-4:2FTS	68.1		60-200						8/4/23 1:06	
13C2-6:2FTS	79.7		60-200						8/4/23 1:06	
13C2-8:2FTS	81.7		50-200						8/4/23 1:06	
13C8-PFOSA	74.5		30-130						8/4/23 1:06	
D3-NMeFOSA	57.2		15-130						8/4/23 1:06	
D5-NEtFOSA	57.9		10-130						8/4/23 1:06	
D3-NMeFOSAA	80.9		45-200						8/4/23 1:06	
D5-NEtFOSAA	79.2		10-200						8/4/23 1:06	
D7-NMeFOSE	70.7		10-150						8/4/23 1:06	
D9-NEtFOSE	68.0		10-150						8/4/23 1:06	
13C3-HFPO-DA	74.8		25-160						8/4/23 1:06	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-26

Sampled: 7/20/2023 10:39

Sample ID: 23G3145-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	320	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-27

Sampled: 7/20/2023 09:55

Sample ID: 23G3145-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	42	15	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoropentanoic acid (PFPeA)	13	21	3.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorohexanoic acid (PFHxA)	12	11	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoroheptanoic acid (PFHpA)	5.3	11	2.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorooctanoic acid (PFOA)	18	11	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorononanoic acid (PFNA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorodecanoic acid (PFDA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoroundecanoic acid (PFUnA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorododecanoic acid (PFDoA)	ND	11	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	11	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorobutanesulfonic acid (PFBS)	4.0	11	2.8	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	11	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorohexanesulfonic acid (PFHxS)	4.5	11	2.2	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	11	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorooctanesulfonic acid (PFOS)	6.5	11	3.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorononanesulfonic acid (PFNS)	ND	11	3.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	42	7.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	42	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	11	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	11	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-MeFOSAA (NMeFOSAA)	ND	11	4.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-EtFOSAA (NEtFOSAA)	ND	11	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	110	28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	110	26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	42	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	42	7.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
9Cl-PF3ONS (F53B Minor)	ND	42	9.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
11Cl-PF3OUdS (F53B Major)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	110	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	530	110	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	530	93	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	21	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	21	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-27

Sampled: 7/20/2023 09:55

Sample ID: 23G3145-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	21	4.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	21	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:22	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	79.1		10-130				8/4/23 1:22			
13C5-PFPeA	76.4		35-150				8/4/23 1:22			
13C5-PFHxA	79.9		55-150				8/4/23 1:22			
13C4-PFHpA	79.1		55-150				8/4/23 1:22			
13C8-PFOA	76.9		60-140				8/4/23 1:22			
13C9-PFNA	76.6		55-140				8/4/23 1:22			
13C6-PFDA	78.0		50-140				8/4/23 1:22			
13C7-PFUnA	76.8		30-140				8/4/23 1:22			
13C2-PFDoA	75.2		10-150				8/4/23 1:22			
13C2-PFTeDA	68.5		10-130				8/4/23 1:22			
13C3-PFBS	77.4		55-150				8/4/23 1:22			
13C3-PFHxS	80.2		55-150				8/4/23 1:22			
13C8-PFOS	77.1		45-140				8/4/23 1:22			
13C2-4:2FTS	69.9		60-200				8/4/23 1:22			
13C2-6:2FTS	80.4		60-200				8/4/23 1:22			
13C2-8:2FTS	83.3		50-200				8/4/23 1:22			
13C8-PFOSA	74.0		30-130				8/4/23 1:22			
D3-NMeFOSA	51.5		15-130				8/4/23 1:22			
D5-NEtFOSA	50.8		10-130				8/4/23 1:22			
D3-NMeFOSAA	79.5		45-200				8/4/23 1:22			
D5-NEtFOSAA	76.9		10-200				8/4/23 1:22			
D7-NMeFOSE	67.5		10-150				8/4/23 1:22			
D9-NEtFOSE	65.2		10-150				8/4/23 1:22			
13C3-HFPO-DA	77.1		25-160				8/4/23 1:22			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EPA-MW-27

Sampled: 7/20/2023 09:55

Sample ID: 23G3145-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	680	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-11

Sampled: 7/20/2023 07:02

Sample ID: 23G3145-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	21	7.5	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoropentanoic acid (PFPeA)	28	10	1.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorohexanoic acid (PFHxA)	18	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoroheptanoic acid (PFHpA)	8.3	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorooctanoic acid (PFOA)	10	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorononanoic acid (PFNA)	ND	5.1	0.98	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorodecanoic acid (PFDA)	ND	5.1	0.95	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoroundecanoic acid (PFUnA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorododecanoic acid (PFDoA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorobutanesulfonic acid (PFBS)	4.4	5.1	1.3	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.7	5.1	1.1	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorooctanesulfonic acid (PFOS)	11	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorononanesulfonic acid (PFNS)	ND	5.1	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	21	3.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	39	21	5.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	21	5.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	5.1	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-MeFOSAA (NMeFOSAA)	ND	5.1	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-EtFOSAA (NEtFOSAA)	ND	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	51	14	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	21	5.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	21	3.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
9Cl-PF3ONS (F53B Minor)	ND	21	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
11Cl-PF3OUdS (F53B Major)	ND	21	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	51	9.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	260	53	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	260	45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	10	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-11

Sampled: 7/20/2023 07:02

Sample ID: 23G3145-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	10	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	10	4.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:38	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.5		10-130						8/4/23 1:38	
13C5-PFPeA	72.7		35-150						8/4/23 1:38	
13C5-PFHxA	76.2		55-150						8/4/23 1:38	
13C4-PFHpA	75.8		55-150						8/4/23 1:38	
13C8-PFOA	74.1		60-140						8/4/23 1:38	
13C9-PFNA	72.3		55-140						8/4/23 1:38	
13C6-PFDA	71.6		50-140						8/4/23 1:38	
13C7-PFUnA	71.0		30-140						8/4/23 1:38	
13C2-PFDoA	72.7		10-150						8/4/23 1:38	
13C2-PFTeDA	70.5		10-130						8/4/23 1:38	
13C3-PFBS	71.8		55-150						8/4/23 1:38	
13C3-PFHxS	73.4		55-150						8/4/23 1:38	
13C8-PFOS	72.0		45-140						8/4/23 1:38	
13C2-4:2FTS	65.2		60-200						8/4/23 1:38	
13C2-6:2FTS	76.8		60-200						8/4/23 1:38	
13C2-8:2FTS	76.0		50-200						8/4/23 1:38	
13C8-PFOSA	70.3		30-130						8/4/23 1:38	
D3-NMeFOSA	54.4		15-130						8/4/23 1:38	
D5-NEtFOSA	56.4		10-130						8/4/23 1:38	
D3-NMeFOSAA	78.5		45-200						8/4/23 1:38	
D5-NEtFOSAA	77.4		10-200						8/4/23 1:38	
D7-NMeFOSE	66.5		10-150						8/4/23 1:38	
D9-NEtFOSE	65.9		10-150						8/4/23 1:38	
13C3-HFPO-DA	72.2		25-160						8/4/23 1:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-11

Sampled: 7/20/2023 07:02

Sample ID: 23G3145-07

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	380	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-12

Sampled: 7/20/2023 08:44

Sample ID: 23G3145-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	17	43	15	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoropentanoic acid (PFPeA)	11	21	3.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorohexanoic acid (PFHxA)	11	11	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoroheptanoic acid (PFHpA)	11	11	2.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorooctanoic acid (PFOA)	31	11	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorononanoic acid (PFNA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorodecanoic acid (PFDA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoroundecanoic acid (PFUnA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorododecanoic acid (PFDoA)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	11	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorobutanesulfonic acid (PFBS)	5.4	11	2.8	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	11	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorohexanesulfonic acid (PFHxS)	6.0	11	2.2	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorooctanesulfonic acid (PFOS)	12	11	3.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorononanesulfonic acid (PFNS)	ND	11	3.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	43	7.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	43	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	43	12	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	11	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-MeFOSAA (NMeFOSAA)	ND	11	4.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-EtFOSAA (NEtFOSAA)	ND	11	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	110	28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	110	26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	43	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	43	7.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
9Cl-PF3ONS (F53B Minor)	ND	43	9.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
11Cl-PF3OUdS (F53B Major)	ND	43	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	110	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	530	110	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	530	94	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	21	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	21	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-12

Sampled: 7/20/2023 08:44

Sample ID: 23G3145-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	21	4.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	21	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 1:53	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.5		10-130						8/4/23 1:53	
13C5-PFPeA	71.1		35-150						8/4/23 1:53	
13C5-PFHxA	73.8		55-150						8/4/23 1:53	
13C4-PFHpA	71.8		55-150						8/4/23 1:53	
13C8-PFOA	73.6		60-140						8/4/23 1:53	
13C9-PFNA	69.9		55-140						8/4/23 1:53	
13C6-PFDA	71.9		50-140						8/4/23 1:53	
13C7-PFUnA	66.8		30-140						8/4/23 1:53	
13C2-PFDoA	61.9		10-150						8/4/23 1:53	
13C2-PFTeDA	59.8		10-130						8/4/23 1:53	
13C3-PFBS	72.0		55-150						8/4/23 1:53	
13C3-PFHxS	73.6		55-150						8/4/23 1:53	
13C8-PFOS	73.0		45-140						8/4/23 1:53	
13C2-4:2FTS	67.5		60-200						8/4/23 1:53	
13C2-6:2FTS	76.4		60-200						8/4/23 1:53	
13C2-8:2FTS	77.9		50-200						8/4/23 1:53	
13C8-PFOSA	68.1		30-130						8/4/23 1:53	
D3-NMeFOSA	44.5		15-130						8/4/23 1:53	
D5-NEtFOSA	47.3		10-130						8/4/23 1:53	
D3-NMeFOSAA	73.9		45-200						8/4/23 1:53	
D5-NEtFOSAA	70.2		10-200						8/4/23 1:53	
D7-NMeFOSE	58.7		10-150						8/4/23 1:53	
D9-NEtFOSE	55.4		10-150						8/4/23 1:53	
13C3-HFPO-DA	71.1		25-160						8/4/23 1:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-12

Sampled: 7/20/2023 08:44

Sample ID: 23G3145-08

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	500	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-13

Sampled: 7/20/2023 09:26

Sample ID: 23G3145-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	80	29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoropentanoic acid (PFPeA)	7.8	40	6.9	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorohexanoic acid (PFHxA)	ND	20	4.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoroheptanoic acid (PFHpA)	ND	20	5.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorooctanoic acid (PFOA)	ND	20	4.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorononanoic acid (PFNA)	ND	20	3.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorodecanoic acid (PFDA)	ND	20	3.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoroundecanoic acid (PFUnA)	ND	20	5.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorododecanoic acid (PFDoA)	ND	20	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	20	5.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	20	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	20	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	20	4.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	20	4.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	20	6.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	20	6.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorononanesulfonic acid (PFNS)	ND	20	5.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	20	6.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	20	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	80	14	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	80	20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	80	22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	20	6.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	20	8.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	20	6.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-MeFOSAA (NMeFOSAA)	ND	20	8.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-EtFOSAA (NEtFOSAA)	ND	20	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	200	53	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	200	49	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	80	21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	80	14	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
9Cl-PF3ONS (F53B Minor)	ND	80	17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
11Cl-PF3OUdS (F53B Major)	ND	80	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	200	36	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	1000	200	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	1000	180	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	40	9.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	40	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-13

Sampled: 7/20/2023 09:26

Sample ID: 23G3145-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	40	8.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	40	17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 2:09	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	82.1		10-130				8/4/23 2:09			
13C5-PFPeA	77.3		35-150				8/4/23 2:09			
13C5-PFHxA	79.8		55-150				8/4/23 2:09			
13C4-PFHpA	80.5		55-150				8/4/23 2:09			
13C8-PFOA	78.5		60-140				8/4/23 2:09			
13C9-PFNA	78.3		55-140				8/4/23 2:09			
13C6-PFDA	79.5		50-140				8/4/23 2:09			
13C7-PFUnA	81.2		30-140				8/4/23 2:09			
13C2-PFDoA	78.2		10-150				8/4/23 2:09			
13C2-PFTeDA	76.9		10-130				8/4/23 2:09			
13C3-PFBS	78.8		55-150				8/4/23 2:09			
13C3-PFHxS	83.2		55-150				8/4/23 2:09			
13C8-PFOS	84.1		45-140				8/4/23 2:09			
13C2-4:2FTS	72.7		60-200				8/4/23 2:09			
13C2-6:2FTS	86.7		60-200				8/4/23 2:09			
13C2-8:2FTS	88.0		50-200				8/4/23 2:09			
13C8-PFOSA	77.8		30-130				8/4/23 2:09			
D3-NMeFOSA	55.9		15-130				8/4/23 2:09			
D5-NEtFOSA	55.7		10-130				8/4/23 2:09			
D3-NMeFOSAA	85.7		45-200				8/4/23 2:09			
D5-NEtFOSAA	86.1		10-200				8/4/23 2:09			
D7-NMeFOSE	72.7		10-150				8/4/23 2:09			
D9-NEtFOSE	72.1		10-150				8/4/23 2:09			
13C3-HFPO-DA	77.8		25-160				8/4/23 2:09			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-13

Sampled: 7/20/2023 09:26

Sample ID: 23G3145-09

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	2000	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-14

Sampled: 7/20/2023 10:20

Sample ID: 23G3145-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	16	3.6	1.3	ng/L	1	PF-18	Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoropentanoic acid (PFPeA)	26	1.8	0.31	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorohexanoic acid (PFHxA)	18	0.90	0.19	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoroheptanoic acid (PFHpA)	8.3	0.90	0.23	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorooctanoic acid (PFOA)	19	0.90	0.20	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorononanoic acid (PFNA)	3.9	0.90	0.17	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorodecanoic acid (PFDA)	3.8	0.90	0.17	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoroundecanoic acid (PFUnA)	0.58	0.90	0.24	ng/L	1	J	Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorobutanesulfonic acid (PFBS)	2.9	0.90	0.23	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.48	0.90	0.21	ng/L	1	J	Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.1	0.90	0.18	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.27	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorooctanesulfonic acid (PFOS)	3.4	0.90	0.28	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.8	3.6	0.62	ng/L	1	J	Draft Method 1633	8/8/23	8/10/23 0:10	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	840	36	8.8	ng/L	10	D	Draft Method 1633	8/8/23	8/10/23 10:19	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.27	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.39	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.76	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.1	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-14

Sampled: 7/20/2023 10:20

Sample ID: 23G3145-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	8/8/23	8/10/23 0:10	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	7.19	*	10-130		PF-18			8/10/23	0:10	
13C5-PFPeA	61.2		35-150					8/10/23	0:10	
13C5-PFHxA	83.9		55-150					8/10/23	0:10	
13C4-PFHpA	82.1		55-150					8/10/23	0:10	
13C8-PFOA	84.3		60-140					8/10/23	0:10	
13C9-PFNA	83.6		55-140					8/10/23	0:10	
13C6-PFDA	85.7		50-140					8/10/23	0:10	
13C7-PFUnA	90.1		30-140					8/10/23	0:10	
13C2-PFDoA	83.6		10-150					8/10/23	0:10	
13C2-PFTeDA	75.7		10-130					8/10/23	0:10	
13C3-PFBS	82.3		55-150					8/10/23	0:10	
13C3-PFHxS	84.6		55-150					8/10/23	0:10	
13C8-PFOS	85.7		45-140					8/10/23	0:10	
13C2-4:2FTS	119		60-200					8/10/23	0:10	
13C2-6:2FTS	154		60-200					8/10/23	10:19	
13C2-8:2FTS	112		50-200					8/10/23	0:10	
13C8-PFOSA	77.3		30-130					8/10/23	0:10	
D3-NMeFOSA	71.8		15-130					8/10/23	0:10	
D5-NEtFOSA	73.5		10-130					8/10/23	0:10	
D3-NMeFOSAA	92.1		45-200					8/10/23	0:10	
D5-NEtFOSAA	92.9		10-200					8/10/23	0:10	
D7-NMeFOSE	86.1		10-150					8/10/23	0:10	
D9-NEtFOSE	69.9		10-150					8/10/23	0:10	
13C3-HFPO-DA	82.2		25-160					8/10/23	0:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-14

Sampled: 7/20/2023 10:20

Sample ID: 23G3145-10

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-15

Sampled: 7/20/2023 09:39

Sample ID: 23G3145-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	20	7.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoropentanoic acid (PFPeA)	19	10	1.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorohexanoic acid (PFHxA)	11	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoroheptanoic acid (PFHpA)	12	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorooctanoic acid (PFOA)	8.2	5.1	1.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorononanoic acid (PFNA)	1.4	5.1	0.98	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorodecanoic acid (PFDA)	ND	5.1	0.95	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoroundecanoic acid (PFUnA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorododecanoic acid (PFDoA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	5.1	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorobutanesulfonic acid (PFBS)	1.8	5.1	1.3	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.8	5.1	1.2	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.9	5.1	1.1	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorononanesulfonic acid (PFNS)	ND	5.1	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	5.1	1.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	20	3.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	20	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	20	5.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluorooctanesulfonamide (PFOSA)	3.7	5.1	1.6	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	5.1	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	5.1	1.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-MeFOSAA (NMeFOSAA)	ND	5.1	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-EtFOSAA (NEtFOSAA)	ND	5.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	51	13	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	20	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	20	3.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
9Cl-PF3ONS (F53B Minor)	ND	20	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
11Cl-PF3OUdS (F53B Major)	ND	20	5.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	51	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	260	52	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	260	45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-15

Sampled: 7/20/2023 09:39

Sample ID: 23G3145-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	10	2.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	10	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:12	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.0		10-130				8/4/23 3:12			
13C5-PFPeA	75.7		35-150				8/4/23 3:12			
13C5-PFHxA	78.9		55-150				8/4/23 3:12			
13C4-PFHpA	79.3		55-150				8/4/23 3:12			
13C8-PFOA	76.9		60-140				8/4/23 3:12			
13C9-PFNA	75.0		55-140				8/4/23 3:12			
13C6-PFDA	76.3		50-140				8/4/23 3:12			
13C7-PFUnA	77.2		30-140				8/4/23 3:12			
13C2-PFDoA	74.2		10-150				8/4/23 3:12			
13C2-PFTeDA	73.3		10-130				8/4/23 3:12			
13C3-PFBS	74.4		55-150				8/4/23 3:12			
13C3-PFHxS	76.7		55-150				8/4/23 3:12			
13C8-PFOS	72.2		45-140				8/4/23 3:12			
13C2-4:2FTS	70.3		60-200				8/4/23 3:12			
13C2-6:2FTS	81.0		60-200				8/4/23 3:12			
13C2-8:2FTS	73.3		50-200				8/4/23 3:12			
13C8-PFOSA	69.1		30-130				8/4/23 3:12			
D3-NMeFOSA	48.4		15-130				8/4/23 3:12			
D5-NEtFOSA	50.7		10-130				8/4/23 3:12			
D3-NMeFOSAA	76.3		45-200				8/4/23 3:12			
D5-NEtFOSAA	74.2		10-200				8/4/23 3:12			
D7-NMeFOSE	59.7		10-150				8/4/23 3:12			
D9-NEtFOSE	59.8		10-150				8/4/23 3:12			
13C3-HFPO-DA	78.1		25-160				8/4/23 3:12			

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-15

Sampled: 7/20/2023 09:39

Sample ID: 23G3145-11

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	470	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-16

Sampled: 7/20/2023 10:57

Sample ID: 23G3145-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	42	15	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoropentanoic acid (PFPeA)	11	21	3.6	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorohexanoic acid (PFHxA)	7.3	10	2.2	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoroheptanoic acid (PFHpA)	4.8	10	2.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorooctanoic acid (PFOA)	14	10	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorononanoic acid (PFNA)	2.2	10	2.0	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorodecanoic acid (PFDA)	ND	10	1.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoroundecanoic acid (PFUnA)	ND	10	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorododecanoic acid (PFDoA)	ND	10	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	10	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	10	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorobutanesulfonic acid (PFBS)	4.0	10	2.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorohexanesulfonic acid (PFHxS)	4.6	10	2.1	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	10	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorooctanesulfonic acid (PFOS)	21	10	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorononanesulfonic acid (PFNS)	ND	10	3.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	10	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	10	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	42	7.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	42	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	10	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	10	4.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	10	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-MeFOSAA (NMeFOSAA)	ND	10	4.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-EtFOSAA (NEtFOSAA)	ND	10	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	100	27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	100	26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	42	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	42	7.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
9Cl-PF3ONS (F53B Minor)	ND	42	8.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
11Cl-PF3OUdS (F53B Major)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	100	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	520	110	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	520	92	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	21	5.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	21	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-16

Sampled: 7/20/2023 10:57

Sample ID: 23G3145-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	21	4.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	21	9.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:27	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.3		10-130				8/4/23 3:27			
13C5-PFPeA	75.0		35-150				8/4/23 3:27			
13C5-PFHxA	78.6		55-150				8/4/23 3:27			
13C4-PFHpA	77.3		55-150				8/4/23 3:27			
13C8-PFOA	77.5		60-140				8/4/23 3:27			
13C9-PFNA	76.3		55-140				8/4/23 3:27			
13C6-PFDA	77.7		50-140				8/4/23 3:27			
13C7-PFUnA	79.7		30-140				8/4/23 3:27			
13C2-PFDoA	78.3		10-150				8/4/23 3:27			
13C2-PFTeDA	74.8		10-130				8/4/23 3:27			
13C3-PFBS	76.8		55-150				8/4/23 3:27			
13C3-PFHxS	75.3		55-150				8/4/23 3:27			
13C8-PFOS	77.3		45-140				8/4/23 3:27			
13C2-4:2FTS	67.5		60-200				8/4/23 3:27			
13C2-6:2FTS	80.8		60-200				8/4/23 3:27			
13C2-8:2FTS	82.9		50-200				8/4/23 3:27			
13C8-PFOSA	76.7		30-130				8/4/23 3:27			
D3-NMeFOSA	57.8		15-130				8/4/23 3:27			
D5-NEtFOSA	59.4		10-130				8/4/23 3:27			
D3-NMeFOSAA	81.7		45-200				8/4/23 3:27			
D5-NEtFOSAA	81.6		10-200				8/4/23 3:27			
D7-NMeFOSE	70.6		10-150				8/4/23 3:27			
D9-NEtFOSE	67.7		10-150				8/4/23 3:27			
13C3-HFPO-DA	75.9		25-160				8/4/23 3:27			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-16

Sampled: 7/20/2023 10:57

Sample ID: 23G3145-12

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	650	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-17

Sampled: 7/20/2023 08:32

Sample ID: 23G3145-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	4.1	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoropentanoic acid (PFPeA)	38	2.0	0.35	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorohexanoic acid (PFHxA)	18	1.0	0.22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.0	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorooctanoic acid (PFOA)	16	1.0	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorononanoic acid (PFNA)	0.94	1.0	0.19	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorodecanoic acid (PFDA)	0.32	1.0	0.19	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorobutanesulfonic acid (PFBS)	3.6	1.0	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.62	1.0	0.24	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.4	1.0	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.31	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorooctanesulfonic acid (PFOS)	17	1.0	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.80	4.1	0.71	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:43	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	240	4.1	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	0.31	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.0	0.42	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.31	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.70	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.1	0.87	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.1	0.99	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	10	1.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	51	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	51	9.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.50	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.51	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-17

Sampled: 7/20/2023 08:32

Sample ID: 23G3145-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.41	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.88	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:43	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.4		10-130						8/4/23 3:43	
13C5-PFPeA	71.4		35-150						8/4/23 3:43	
13C5-PFHxA	74.3		55-150						8/4/23 3:43	
13C4-PFHpA	73.3		55-150						8/4/23 3:43	
13C8-PFOA	69.9		60-140						8/4/23 3:43	
13C9-PFNA	71.2		55-140						8/4/23 3:43	
13C6-PFDA	71.3		50-140						8/4/23 3:43	
13C7-PFUnA	65.7		30-140						8/4/23 3:43	
13C2-PFDoA	59.2		10-150						8/4/23 3:43	
13C2-PFTeDA	49.8		10-130						8/4/23 3:43	
13C3-PFBS	73.9		55-150						8/4/23 3:43	
13C3-PFHxS	72.3		55-150						8/4/23 3:43	
13C8-PFOS	71.4		45-140						8/4/23 3:43	
13C2-4:2FTS	72.3		60-200						8/4/23 3:43	
13C2-6:2FTS	88.1		60-200						8/4/23 3:43	
13C2-8:2FTS	77.5		50-200						8/4/23 3:43	
13C8-PFOSA	64.3		30-130						8/4/23 3:43	
D3-NMeFOSA	46.6		15-130						8/4/23 3:43	
D5-NEtFOSA	43.7		10-130						8/4/23 3:43	
D3-NMeFOSAA	71.9		45-200						8/4/23 3:43	
D5-NEtFOSAA	66.6		10-200						8/4/23 3:43	
D7-NMeFOSE	40.7		10-150						8/4/23 3:43	
D9-NEtFOSE	32.9		10-150						8/4/23 3:43	
13C3-HFPO-DA	71.4		25-160						8/4/23 3:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-17

Sampled: 7/20/2023 08:32

Sample ID: 23G3145-13

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-18

Sampled: 7/20/2023 09:09

Sample ID: 23G3145-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	42	15	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoropentanoic acid (PFPeA)	9.7	21	3.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorohexanoic acid (PFHxA)	5.0	11	2.3	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoroheptanoic acid (PFHpA)	4.7	11	2.7	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorooctanoic acid (PFOA)	10	11	2.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorononanoic acid (PFNA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorodecanoic acid (PFDA)	ND	11	2.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoroundecanoic acid (PFUnA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorododecanoic acid (PFDoA)	ND	11	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	11	2.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	11	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	11	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorohexanesulfonic acid (PFHxS)	4.2	11	2.2	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	11	3.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorooctanesulfonic acid (PFOS)	5.8	11	3.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorononanesulfonic acid (PFNS)	ND	11	3.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	42	7.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	42	12	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	11	4.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	11	3.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-MeFOSAA (NMeFOSAA)	ND	11	4.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-EtFOSAA (NEtFOSAA)	ND	11	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	110	28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	110	26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	42	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	42	7.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
9Cl-PF3ONS (F53B Minor)	ND	42	9.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
11Cl-PF3OUdS (F53B Major)	ND	42	10	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	110	19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	530	110	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	530	94	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	21	5.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	21	5.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-18

Sampled: 7/20/2023 09:09

Sample ID: 23G3145-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	21	4.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	21	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 3:59	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	80.4		10-130						8/4/23 3:59	
13C5-PFPeA	78.5		35-150						8/4/23 3:59	
13C5-PFHxA	80.9		55-150						8/4/23 3:59	
13C4-PFHpA	79.4		55-150						8/4/23 3:59	
13C8-PFOA	79.8		60-140						8/4/23 3:59	
13C9-PFNA	77.0		55-140						8/4/23 3:59	
13C6-PFDA	78.5		50-140						8/4/23 3:59	
13C7-PFUnA	76.8		30-140						8/4/23 3:59	
13C2-PFDoA	75.3		10-150						8/4/23 3:59	
13C2-PFTeDA	73.0		10-130						8/4/23 3:59	
13C3-PFBS	78.5		55-150						8/4/23 3:59	
13C3-PFHxS	82.0		55-150						8/4/23 3:59	
13C8-PFOS	81.1		45-140						8/4/23 3:59	
13C2-4:2FTS	71.8		60-200						8/4/23 3:59	
13C2-6:2FTS	84.6		60-200						8/4/23 3:59	
13C2-8:2FTS	85.7		50-200						8/4/23 3:59	
13C8-PFOSA	79.2		30-130						8/4/23 3:59	
D3-NMeFOSA	52.2		15-130						8/4/23 3:59	
D5-NEtFOSA	53.2		10-130						8/4/23 3:59	
D3-NMeFOSAA	86.2		45-200						8/4/23 3:59	
D5-NEtFOSAA	83.9		10-200						8/4/23 3:59	
D7-NMeFOSE	72.4		10-150						8/4/23 3:59	
D9-NEtFOSE	70.6		10-150						8/4/23 3:59	
13C3-HFPO-DA	77.9		25-160						8/4/23 3:59	

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-18

Sampled: 7/20/2023 09:09

Sample ID: 23G3145-14

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	780	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-19

Sampled: 7/20/2023 07:58

Sample ID: 23G3145-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.6	4.2	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoropentanoic acid (PFPeA)	14	2.1	0.36	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorohexanoic acid (PFHxA)	6.8	1.0	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoroheptanoic acid (PFHpA)	8.3	1.0	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorooctanoic acid (PFOA)	3.2	1.0	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorononanoic acid (PFNA)	1.1	1.0	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorodecanoic acid (PFDA)	0.76	1.0	0.19	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorobutanesulfonic acid (PFBS)	1.2	1.0	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.0	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.38	1.0	0.21	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorooctanesulfonic acid (PFOS)	4.5	1.0	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.31	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.2	0.73	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.2	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.2	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluorooctanesulfonamide (PFOSA)	0.67	1.0	0.32	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.0	0.43	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.46	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.2	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.2	0.72	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.2	0.89	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
11Cl-PF3OUDS (F53B Major)	ND	4.2	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	10	1.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	52	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	52	9.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.51	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.52	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-19

Sampled: 7/20/2023 07:58

Sample ID: 23G3145-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.42	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.90	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:14	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.1		10-130				8/4/23 4:14			
13C5-PFPeA	70.2		35-150				8/4/23 4:14			
13C5-PFHxA	73.3		55-150				8/4/23 4:14			
13C4-PFHpA	73.0		55-150				8/4/23 4:14			
13C8-PFOA	69.8		60-140				8/4/23 4:14			
13C9-PFNA	66.6		55-140				8/4/23 4:14			
13C6-PFDA	65.7		50-140				8/4/23 4:14			
13C7-PFUnA	64.1		30-140				8/4/23 4:14			
13C2-PFDoA	59.0		10-150				8/4/23 4:14			
13C2-PFTeDA	40.5		10-130				8/4/23 4:14			
13C3-PFBS	71.2		55-150				8/4/23 4:14			
13C3-PFHxS	70.6		55-150				8/4/23 4:14			
13C8-PFOS	66.5		45-140				8/4/23 4:14			
13C2-4:2FTS	84.4		60-200				8/4/23 4:14			
13C2-6:2FTS	76.4		60-200				8/4/23 4:14			
13C2-8:2FTS	69.4		50-200				8/4/23 4:14			
13C8-PFOSA	62.2		30-130				8/4/23 4:14			
D3-NMeFOSA	43.5		15-130				8/4/23 4:14			
D5-NEtFOSA	37.8		10-130				8/4/23 4:14			
D3-NMeFOSAA	63.5		45-200				8/4/23 4:14			
D5-NEtFOSAA	60.1		10-200				8/4/23 4:14			
D7-NMeFOSE	16.3		10-150				8/4/23 4:14			
D9-NEtFOSE	11.0		10-150				8/4/23 4:14			
13C3-HFPO-DA	70.7		25-160				8/4/23 4:14			

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-19

Sampled: 7/20/2023 07:58

Sample ID: 23G3145-15

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	40	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-20

Sampled: 7/20/2023 08:16

Sample ID: 23G3145-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	3.8	1.4	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoropentanoic acid (PFPeA)	4.8	1.9	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorohexanoic acid (PFHxA)	4.0	0.96	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoroheptanoic acid (PFHpA)	3.1	0.96	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorooctanoic acid (PFOA)	6.6	0.96	0.22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorononanoic acid (PFNA)	0.29	0.96	0.18	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorodecanoic acid (PFDA)	ND	0.96	0.18	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorobutanesulfonic acid (PFBS)	1.8	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.74	0.96	0.23	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.0	0.96	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorooctanesulfonic acid (PFOS)	3.2	0.96	0.30	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.30	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.67	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.94	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.40	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.42	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.66	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.6	1.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	9.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-20

Sampled: 7/20/2023 08:16

Sample ID: 23G3145-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.83	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:30	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.1		10-130						8/4/23 4:30	
13C5-PFPeA	75.6		35-150						8/4/23 4:30	
13C5-PFHxA	78.4		55-150						8/4/23 4:30	
13C4-PFHpA	76.9		55-150						8/4/23 4:30	
13C8-PFOA	73.4		60-140						8/4/23 4:30	
13C9-PFNA	74.6		55-140						8/4/23 4:30	
13C6-PFDA	77.7		50-140						8/4/23 4:30	
13C7-PFUnA	76.4		30-140						8/4/23 4:30	
13C2-PFDoA	76.5		10-150						8/4/23 4:30	
13C2-PFTeDA	74.7		10-130						8/4/23 4:30	
13C3-PFBS	74.8		55-150						8/4/23 4:30	
13C3-PFHxS	77.3		55-150						8/4/23 4:30	
13C8-PFOS	75.1		45-140						8/4/23 4:30	
13C2-4:2FTS	73.9		60-200						8/4/23 4:30	
13C2-6:2FTS	77.8		60-200						8/4/23 4:30	
13C2-8:2FTS	75.3		50-200						8/4/23 4:30	
13C8-PFOSA	72.1		30-130						8/4/23 4:30	
D3-NMeFOSA	57.3		15-130						8/4/23 4:30	
D5-NEtFOSA	60.7		10-130						8/4/23 4:30	
D3-NMeFOSAA	78.7		45-200						8/4/23 4:30	
D5-NEtFOSAA	78.9		10-200						8/4/23 4:30	
D7-NMeFOSE	70.1		10-150						8/4/23 4:30	
D9-NEtFOSE	67.5		10-150						8/4/23 4:30	
13C3-HFPO-DA	75.2		25-160						8/4/23 4:30	

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: STA-MW-20

Sampled: 7/20/2023 08:16

Sample ID: 23G3145-16

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: MW-100

Sampled: 7/20/2023 07:30

Sample ID: 23G3145-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.3	3.7	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoropentanoic acid (PFPeA)	11	1.9	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorohexanoic acid (PFHxA)	9.6	0.93	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoroheptanoic acid (PFHpA)	4.5	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorooctanoic acid (PFOA)	16	0.93	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorononanoic acid (PFNA)	0.31	0.93	0.18	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	0.17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorobutanesulfonic acid (PFBS)	5.3	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.60	0.93	0.22	ng/L	1	J	Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.7	0.93	0.19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorooctanesulfonic acid (PFOS)	5.4	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.65	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.91	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.38	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.41	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.64	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.79	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.7	0.90	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.3	1.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: MW-100

Sampled: 7/20/2023 07:30

Sample ID: 23G3145-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.37	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.80	ng/L	1		Draft Method 1633	8/1/23	8/4/23 4:46	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.8		10-130						8/4/23 4:46	
13C5-PFPeA	75.1		35-150						8/4/23 4:46	
13C5-PFHxA	77.8		55-150						8/4/23 4:46	
13C4-PFHpA	76.9		55-150						8/4/23 4:46	
13C8-PFOA	76.3		60-140						8/4/23 4:46	
13C9-PFNA	76.2		55-140						8/4/23 4:46	
13C6-PFDA	78.4		50-140						8/4/23 4:46	
13C7-PFUnA	80.3		30-140						8/4/23 4:46	
13C2-PFDoA	76.1		10-150						8/4/23 4:46	
13C2-PFTeDA	75.6		10-130						8/4/23 4:46	
13C3-PFBS	76.5		55-150						8/4/23 4:46	
13C3-PFHxS	79.8		55-150						8/4/23 4:46	
13C8-PFOS	76.8		45-140						8/4/23 4:46	
13C2-4:2FTS	73.3		60-200						8/4/23 4:46	
13C2-6:2FTS	80.6		60-200						8/4/23 4:46	
13C2-8:2FTS	80.6		50-200						8/4/23 4:46	
13C8-PFOSA	71.8		30-130						8/4/23 4:46	
D3-NMeFOSA	58.3		15-130						8/4/23 4:46	
D5-NEtFOSA	60.1		10-130						8/4/23 4:46	
D3-NMeFOSAA	77.5		45-200						8/4/23 4:46	
D5-NEtFOSAA	77.6		10-200						8/4/23 4:46	
D7-NMeFOSE	69.2		10-150						8/4/23 4:46	
D9-NEtFOSE	67.8		10-150						8/4/23 4:46	
13C3-HFPO-DA	77.3		25-160						8/4/23 4:46	

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: MW-100

Sampled: 7/20/2023 07:30

Sample ID: 23G3145-17

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	7/28/23	7/28/23 15:00	0

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EB-1

Sampled: 7/20/2023 08:18

Sample ID: 23G3145-18

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	4.2	1.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoropentanoic acid (PFPeA)	ND	2.1	0.37	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorohexanoic acid (PFHxA)	ND	1.1	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoroheptanoic acid (PFHpA)	ND	1.1	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorooctanoic acid (PFOA)	ND	1.1	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorononanoic acid (PFNA)	ND	1.1	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorodecanoic acid (PFDA)	ND	1.1	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.1	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.1	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.1	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.1	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.1	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.1	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.1	0.22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.1	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.1	0.34	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.1	0.31	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.1	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.1	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.2	0.74	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.2	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.2	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.1	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.1	0.44	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.1	0.33	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.1	0.47	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.1	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	11	2.8	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	11	2.6	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.2	1.1	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.2	0.73	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.2	0.90	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.2	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	11	1.9	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	53	11	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	53	9.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.52	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.53	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EB-1

Sampled: 7/20/2023 08:18

Sample ID: 23G3145-18

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.43	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.92	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:02	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	79.1		10-130				8/4/23 5:02			
13C5-PFPeA	76.1		35-150				8/4/23 5:02			
13C5-PFHxA	79.2		55-150				8/4/23 5:02			
13C4-PFHpA	79.1		55-150				8/4/23 5:02			
13C8-PFOA	79.0		60-140				8/4/23 5:02			
13C9-PFNA	77.2		55-140				8/4/23 5:02			
13C6-PFDA	78.9		50-140				8/4/23 5:02			
13C7-PFUnA	79.1		30-140				8/4/23 5:02			
13C2-PFDoA	75.0		10-150				8/4/23 5:02			
13C2-PFTeDA	75.0		10-130				8/4/23 5:02			
13C3-PFBS	76.6		55-150				8/4/23 5:02			
13C3-PFHxS	77.5		55-150				8/4/23 5:02			
13C8-PFOS	80.0		45-140				8/4/23 5:02			
13C2-4:2FTS	68.5		60-200				8/4/23 5:02			
13C2-6:2FTS	81.0		60-200				8/4/23 5:02			
13C2-8:2FTS	83.0		50-200				8/4/23 5:02			
13C8-PFOSA	71.2		30-130				8/4/23 5:02			
D3-NMeFOSA	51.6		15-130				8/4/23 5:02			
D5-NEtFOSA	52.6		10-130				8/4/23 5:02			
D3-NMeFOSAA	79.3		45-200				8/4/23 5:02			
D5-NEtFOSAA	77.5		10-200				8/4/23 5:02			
D7-NMeFOSE	68.0		10-150				8/4/23 5:02			
D9-NEtFOSE	66.0		10-150				8/4/23 5:02			
13C3-HFPO-DA	76.4		25-160				8/4/23 5:02			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: EB-1

Sampled: 7/20/2023 08:18

Sample ID: 23G3145-18

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	7/25/23	7/25/23 10:06	RRB

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: FB-1

Sampled: 7/20/2023 08:21

Sample ID: 23G3145-19

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.7	1.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.32	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.93	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorooctanoic acid (PFOA)	ND	0.93	0.21	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorononanoic acid (PFNA)	ND	0.93	0.18	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	0.17	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.23	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.93	0.24	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.93	0.22	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.93	0.19	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.25	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.65	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.91	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.28	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.38	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.41	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.20	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.4	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.3	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.64	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.79	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	0.90	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	9.3	1.7	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.5	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.2	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.45	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: FB-1

Sampled: 7/20/2023 08:21

Sample ID: 23G3145-19

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.37	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.80	ng/L	1		Draft Method 1633	8/1/23	8/4/23 5:17	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	77.2		10-130				8/4/23 5:17			
13C5-PFPeA	75.1		35-150				8/4/23 5:17			
13C5-PFHxA	78.3		55-150				8/4/23 5:17			
13C4-PFHpA	77.1		55-150				8/4/23 5:17			
13C8-PFOA	77.6		60-140				8/4/23 5:17			
13C9-PFNA	75.9		55-140				8/4/23 5:17			
13C6-PFDA	75.6		50-140				8/4/23 5:17			
13C7-PFUnA	75.6		30-140				8/4/23 5:17			
13C2-PFDoA	76.0		10-150				8/4/23 5:17			
13C2-PFTeDA	74.6		10-130				8/4/23 5:17			
13C3-PFBS	74.1		55-150				8/4/23 5:17			
13C3-PFHxS	77.6		55-150				8/4/23 5:17			
13C8-PFOS	73.2		45-140				8/4/23 5:17			
13C2-4:2FTS	65.6		60-200				8/4/23 5:17			
13C2-6:2FTS	81.5		60-200				8/4/23 5:17			
13C2-8:2FTS	79.6		50-200				8/4/23 5:17			
13C8-PFOSA	71.3		30-130				8/4/23 5:17			
D3-NMeFOSA	56.1		15-130				8/4/23 5:17			
D5-NEtFOSA	57.2		10-130				8/4/23 5:17			
D3-NMeFOSAA	79.4		45-200				8/4/23 5:17			
D5-NEtFOSAA	78.3		10-200				8/4/23 5:17			
D7-NMeFOSE	67.7		10-150				8/4/23 5:17			
D9-NEtFOSE	66.0		10-150				8/4/23 5:17			
13C3-HFPO-DA	78.6		25-160				8/4/23 5:17			

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Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3145

Date Received: 7/21/2023

Field Sample #: FB-1

Sampled: 7/20/2023 08:21

Sample ID: 23G3145-19

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	7/25/23	7/25/23 10:06	RRB

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23G3145-18 [EB-1]	B346962	50.0	07/25/23
23G3145-19 [FB-1]	B346962	50.0	07/25/23

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 7/28/2023 per NO PREP in Batch B347402

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G3145-01 [EPA-MW-9A]	B347287	97.4	5.00	08/01/23
23G3145-02 [EPA-MW-11D]	B347287	549	5.00	08/01/23
23G3145-03 [EPA-MW-21R]	B347287	524	5.00	08/01/23
23G3145-04 [EPA-MW-23]	B347287	25.0	5.00	08/01/23
23G3145-05 [EPA-MW-26]	B347287	97.8	5.00	08/01/23
23G3145-06 [EPA-MW-27]	B347287	47.3	5.00	08/01/23
23G3145-07 [STA-MW-11]	B347287	97.1	5.00	08/01/23
23G3145-08 [STA-MW-12]	B347287	46.8	5.00	08/01/23
23G3145-09 [STA-MW-13]	B347287	25.0	5.00	08/01/23
23G3145-11 [STA-MW-15]	B347287	97.8	5.00	08/01/23
23G3145-12 [STA-MW-16]	B347287	48.0	5.00	08/01/23
23G3145-13 [STA-MW-17]	B347287	490	5.00	08/01/23
23G3145-14 [STA-MW-18]	B347287	47.1	5.00	08/01/23
23G3145-15 [STA-MW-19]	B347287	479	5.00	08/01/23
23G3145-16 [STA-MW-20]	B347287	523	5.00	08/01/23
23G3145-17 [MW-100]	B347287	539	5.00	08/01/23
23G3145-18 [EB-1]	B347287	472	5.00	08/01/23
23G3145-19 [FB-1]	B347287	540	5.00	08/01/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23G3145-01 [EPA-MW-9A]	B347402	50.0	07/28/23
23G3145-02 [EPA-MW-11D]	B347402	50.0	07/28/23
23G3145-03 [EPA-MW-21R]	B347402	50.0	07/28/23
23G3145-04 [EPA-MW-23]	B347402	50.0	07/28/23
23G3145-05 [EPA-MW-26]	B347402	50.0	07/28/23
23G3145-06 [EPA-MW-27]	B347402	50.0	07/28/23
23G3145-07 [STA-MW-11]	B347402	50.0	07/28/23
23G3145-08 [STA-MW-12]	B347402	50.0	07/28/23
23G3145-09 [STA-MW-13]	B347402	50.0	07/28/23
23G3145-10 [STA-MW-14]	B347402	50.0	07/28/23
23G3145-11 [STA-MW-15]	B347402	50.0	07/28/23
23G3145-12 [STA-MW-16]	B347402	50.0	07/28/23
23G3145-13 [STA-MW-17]	B347402	50.0	07/28/23
23G3145-14 [STA-MW-18]	B347402	50.0	07/28/23
23G3145-15 [STA-MW-19]	B347402	50.0	07/28/23
23G3145-16 [STA-MW-20]	B347402	50.0	07/28/23
23G3145-17 [MW-100]	B347402	50.0	07/28/23

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 7/28/2023 per NO PREP in Batch B347402

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G3145-10RE1 [STA-MW-14]	B348285	558	5.00	08/08/23
23G3145-10RE2 [STA-MW-14]	B348285	558	5.00	08/08/23

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Sample Extraction Data

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347287 - Draft Method 1633										
Blank (B347287-BLK1)										
					Prepared: 08/01/23 Analyzed: 08/03/23					
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	83.1		ng/L	97.6		85.2	10-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B347287 - Draft Method 1633
Blank (B347287-BLK1)

Prepared: 08/01/23 Analyzed: 08/03/23

Surrogate: 13C5-PFPeA	40.0		ng/L	48.8		82.0	35-150			
Surrogate: 13C5-PFHxA	20.9		ng/L	24.4		85.5	55-150			
Surrogate: 13C4-PFHpA	20.7		ng/L	24.4		85.0	55-150			
Surrogate: 13C8-PFOA	20.5		ng/L	24.4		83.9	60-140			
Surrogate: 13C9-PFNA	9.77		ng/L	12.2		80.1	55-140			
Surrogate: 13C6-PFDA	9.93		ng/L	12.2		81.4	50-140			
Surrogate: 13C7-PFUnA	10.1		ng/L	12.2		82.6	30-140			
Surrogate: 13C2-PFDoA	9.77		ng/L	12.2		80.1	10-150			
Surrogate: 13C2-PFTeDA	9.59		ng/L	12.2		78.6	10-130			
Surrogate: 13C3-PFBS	19.6		ng/L	24.4		80.4	55-150			
Surrogate: 13C3-PFHxS	20.4		ng/L	24.4		83.8	55-150			
Surrogate: 13C8-PFOS	19.9		ng/L	24.4		81.6	45-140			
Surrogate: 13C2-4:2FTS	34.6		ng/L	48.8		70.9	60-200			
Surrogate: 13C2-6:2FTS	42.6		ng/L	48.8		87.4	60-200			
Surrogate: 13C2-8:2FTS	41.5		ng/L	48.8		85.1	50-200			
Surrogate: 13C8-PFOA	19.4		ng/L	24.4		79.6	30-130			
Surrogate: D3-NMeFOA	15.1		ng/L	24.4		61.8	15-130			
Surrogate: D5-NEtFOA	16.2		ng/L	24.4		66.3	10-130			
Surrogate: D3-NMeFOA	42.2		ng/L	48.8		86.4	45-200			
Surrogate: D5-NEtFOA	42.7		ng/L	48.8		87.6	10-200			
Surrogate: D7-NMeFOA	187		ng/L	244		76.6	10-150			
Surrogate: D9-NEtFOA	182		ng/L	244		74.5	10-150			
Surrogate: 13C3-HFPO-DA	80.7		ng/L	97.6		82.7	25-160			

LCS (B347287-BS1)

Prepared: 08/01/23 Analyzed: 08/03/23

Perfluorobutanoic acid (PFBA)	91.9	3.9	ng/L	93.6		98.2	58-148			
Perfluoropentanoic acid (PFPeA)	45.1	1.9	ng/L	46.8		96.3	54-152			
Perfluorohexanoic acid (PFHxA)	21.7	0.97	ng/L	23.4		92.8	55-152			
Perfluoroheptanoic acid (PFHpA)	21.6	0.97	ng/L	23.4		92.3	54-154			
Perfluorooctanoic acid (PFOA)	22.3	0.97	ng/L	23.4		95.3	52-161			
Perfluorononanoic acid (PFNA)	22.4	0.97	ng/L	23.4		95.8	59-149			
Perfluorodecanoic acid (PFDA)	22.9	0.97	ng/L	23.4		97.9	52-147			
Perfluoroundecanoic acid (PFUnA)	23.2	0.97	ng/L	23.4		99.2	48-159			
Perfluorododecanoic acid (PFDoA)	22.8	0.97	ng/L	23.4		97.6	64-142			
Perfluorotridecanoic acid (PFTTrDA)	21.5	0.97	ng/L	23.4		91.9	49-148			
Perfluorotetradecanoic acid (PFTeDA)	22.3	0.97	ng/L	23.4		95.1	47-161			
Perfluorobutanesulfonic acid (PFBS)	19.1	0.97	ng/L	20.8		92.0	62-144			
Perfluoropentanesulfonic acid (PFPeS)	20.3	0.97	ng/L	22.0		92.3	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.3	0.97	ng/L	21.4		89.9	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	21.1	0.97	ng/L	22.3		94.7	55-152			
Perfluorooctanesulfonic acid (PFOS)	21.0	0.97	ng/L	21.7		96.7	58-149			
Perfluorononanesulfonic acid (PFNS)	20.4	0.97	ng/L	22.5		90.7	52-148			
Perfluorodecanesulfonic acid (PFDS)	20.8	0.97	ng/L	22.6		91.9	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.6	0.97	ng/L	22.7		90.9	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	85.5	3.9	ng/L	87.7		97.4	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	81.7	3.9	ng/L	88.9		91.9	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8	3.9	ng/L	90.1		98.6	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.0	0.97	ng/L	23.4		94.0	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOA)	21.9	0.97	ng/L	23.4		93.5	63-145			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347287 - Draft Method 1633										
LCS (B347287-BS1)										
Prepared: 08/01/23 Analyzed: 08/03/23										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.2	0.97	ng/L	23.4		94.9	65-139			
N-MeFOSAA (NMeFOSAA)	22.2	0.97	ng/L	23.4		95.1	58-144			
N-EtFOSAA (NEtFOSAA)	20.6	0.97	ng/L	23.4		88.0	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	225	9.7	ng/L	234		96.1	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	225	9.7	ng/L	234		96.0	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	96.5	3.9	ng/L	93.6		103	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	85.2	3.9	ng/L	88.3		96.4	68-146			
9Cl-PF3ONS (F53B Minor)	85.1	3.9	ng/L	87.7		97.0	56-156			
11Cl-PF3OUdS (F53B Major)	82.6	3.9	ng/L	88.3		93.5	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	221	9.7	ng/L	234		94.3	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	1120	49	ng/L	1170		95.4	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1060	49	ng/L	1170		90.9	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	40.4	1.9	ng/L	41.7		96.9	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	45.3	1.9	ng/L	46.8		96.9	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.1	1.9	ng/L	46.8		103	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	45.9	1.9	ng/L	46.8		98.1	48-161			
Surrogate: 13C4-PFBA	76.6		ng/L	97.5		78.6	10-130			
Surrogate: 13C5-PFPeA	36.9		ng/L	48.7		75.6	35-150			
Surrogate: 13C5-PFHxA	19.3		ng/L	24.4		79.3	55-150			
Surrogate: 13C4-PFHpA	19.3		ng/L	24.4		79.3	55-150			
Surrogate: 13C8-PFOA	18.7		ng/L	24.4		76.8	60-140			
Surrogate: 13C9-PFNA	9.30		ng/L	12.2		76.3	55-140			
Surrogate: 13C6-PFDA	9.40		ng/L	12.2		77.2	50-140			
Surrogate: 13C7-PFUnA	8.93		ng/L	12.2		73.2	30-140			
Surrogate: 13C2-PFDoA	8.96		ng/L	12.2		73.5	10-150			
Surrogate: 13C2-PFTeDA	9.18		ng/L	12.2		75.3	10-130			
Surrogate: 13C3-PFBS	19.0		ng/L	24.4		77.9	55-150			
Surrogate: 13C3-PFHxS	19.3		ng/L	24.4		79.4	55-150			
Surrogate: 13C8-PFOS	19.1		ng/L	24.4		78.6	45-140			
Surrogate: 13C2-4:2FTS	35.8		ng/L	48.7		73.4	60-200			
Surrogate: 13C2-6:2FTS	42.6		ng/L	48.7		87.3	60-200			
Surrogate: 13C2-8:2FTS	41.7		ng/L	48.7		85.5	50-200			
Surrogate: 13C8-PFOSA	18.1		ng/L	24.4		74.2	30-130			
Surrogate: D3-NMeFOSAA	14.3		ng/L	24.4		58.6	15-130			
Surrogate: D5-NEtFOSA	14.8		ng/L	24.4		60.7	10-130			
Surrogate: D3-NMeFOSAA	39.7		ng/L	48.7		81.5	45-200			
Surrogate: D5-NEtFOSAA	40.0		ng/L	48.7		82.1	10-200			
Surrogate: D7-NMeFOSE	175		ng/L	244		71.8	10-150			
Surrogate: D9-NEtFOSE	169		ng/L	244		69.4	10-150			
Surrogate: 13C3-HFPO-DA	73.1		ng/L	97.5		74.9	25-160			
MRL Check (B347287-MRL1)										
Prepared: 08/01/23 Analyzed: 08/03/23										
Perfluorobutanoic acid (PFBA)	8.28	3.9	ng/L	7.88		105	44-157			
Perfluoropentanoic acid (PFPeA)	3.87	2.0	ng/L	3.94		98.2	57-148			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347287 - Draft Method 1633										
MRL Check (B347287-MRL1)										
					Prepared: 08/01/23 Analyzed: 08/03/23					
Perfluorohexanoic acid (PFHxA)	1.92	0.98	ng/L	1.97		97.5	62-149			
Perfluoroheptanoic acid (PFHpA)	1.79	0.98	ng/L	1.97		91.1	56-150			
Perfluorooctanoic acid (PFOA)	1.71	0.98	ng/L	1.97		86.8	57-161			
Perfluorononanoic acid (PFNA)	1.77	0.98	ng/L	1.97		90.1	53-157			
Perfluorodecanoic acid (PFDA)	1.90	0.98	ng/L	1.97		96.7	43-158			
Perfluoroundecanoic acid (PFUnA)	1.75	0.98	ng/L	1.97		89.0	50-155			
Perfluorododecanoic acid (PFDoA)	1.79	0.98	ng/L	1.97		90.8	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.79	0.98	ng/L	1.97		90.8	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.86	0.98	ng/L	1.97		94.5	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.58	0.98	ng/L	1.75		90.6	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.66	0.98	ng/L	1.85		89.5	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.82	0.98	ng/L	1.80		101	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.75	0.98	ng/L	1.88		93.5	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.74	0.98	ng/L	1.83		95.4	43-162			
Perfluorononanesulfonic acid (PFNS)	1.75	0.98	ng/L	1.90		92.5	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.64	0.98	ng/L	1.90		86.3	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.68	0.98	ng/L	1.91		87.7	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.90	3.9	ng/L	7.38		93.4	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.92	3.9	ng/L	7.48		92.5	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.87	3.9	ng/L	7.58		90.6	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.81	0.98	ng/L	1.97		91.9	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.83	0.98	ng/L	1.97		92.9	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.71	0.98	ng/L	1.97		86.8	49-156			
N-MeFOSAA (NMeFOSAA)	1.71	0.98	ng/L	1.97		86.6	32-160			
N-EtFOSAA (NEtFOSAA)	1.61	0.98	ng/L	1.97		81.7	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	18.6	9.8	ng/L	19.7		94.4	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	18.4	9.8	ng/L	19.7		93.3	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.00	3.9	ng/L	7.88		102	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.17	3.9	ng/L	7.43		96.4	61-148			
9Cl-PF3ONS (F53B Minor)	7.40	3.9	ng/L	7.38		100	44-167			
11Cl-PF3OUdS (F53B Major)	6.87	3.9	ng/L	7.43		92.5	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.6	9.8	ng/L	19.7		94.6	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	88.4	49	ng/L	98.4		89.8	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	81.3	49	ng/L	98.4		82.6	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.39	2.0	ng/L	3.50		96.7	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.10	2.0	ng/L	3.94		104	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.11	2.0	ng/L	3.94		104	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.71	2.0	ng/L	3.94		94.3	47-160			
Surrogate: 13C4-PFBA	76.2		ng/L	98.4		77.4	10-130			
Surrogate: 13C5-PFPeA	36.5		ng/L	49.2		74.2	35-150			
Surrogate: 13C5-PFHxA	19.2		ng/L	24.6		78.1	55-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B347287 - Draft Method 1633
MRL Check (B347287-MRL1)

Prepared: 08/01/23 Analyzed: 08/03/23

Surrogate: 13C4-PFHpA	19.2		ng/L	24.6		77.9	55-150			
Surrogate: 13C8-PFOA	18.6		ng/L	24.6		75.4	60-140			
Surrogate: 13C9-PFNA	8.92		ng/L	12.3		72.5	55-140			
Surrogate: 13C6-PFDA	9.40		ng/L	12.3		76.4	50-140			
Surrogate: 13C7-PFUnA	9.22		ng/L	12.3		75.0	30-140			
Surrogate: 13C2-PFDoA	8.92		ng/L	12.3		72.5	10-150			
Surrogate: 13C2-PFTeDA	8.81		ng/L	12.3		71.6	10-130			
Surrogate: 13C3-PFBS	18.5		ng/L	24.6		75.3	55-150			
Surrogate: 13C3-PFHxS	19.1		ng/L	24.6		77.5	55-150			
Surrogate: 13C8-PFOS	19.2		ng/L	24.6		78.1	45-140			
Surrogate: 13C2-4:2FTS	32.7		ng/L	49.2		66.4	60-200			
Surrogate: 13C2-6:2FTS	39.6		ng/L	49.2		80.5	60-200			
Surrogate: 13C2-8:2FTS	40.3		ng/L	49.2		81.9	50-200			
Surrogate: 13C8-PFOA	18.0		ng/L	24.6		73.0	30-130			
Surrogate: D3-NMeFOSA	14.0		ng/L	24.6		56.9	15-130			
Surrogate: D5-NEtFOSA	14.8		ng/L	24.6		60.3	10-130			
Surrogate: D3-NMeFOSAA	39.3		ng/L	49.2		79.9	45-200			
Surrogate: D5-NEtFOSAA	39.2		ng/L	49.2		79.7	10-200			
Surrogate: D7-NMeFOSE	171		ng/L	246		69.6	10-150			
Surrogate: D9-NEtFOSE	168		ng/L	246		68.3	10-150			
Surrogate: 13C3-HFPO-DA	73.7		ng/L	98.4		74.8	25-160			

Batch B348285 - Draft Method 1633
Blank (B348285-BLK1)

Prepared: 08/08/23 Analyzed: 08/09/23

Perfluorobutanoic acid (PFBA)	ND	4.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.99	ng/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B348285 - Draft Method 1633
Blank (B348285-BLK1)

Prepared: 08/08/23 Analyzed: 08/09/23

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	4.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	4.0	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	80.1		ng/L	98.9		81.0	10-130			
Surrogate: 13C5-PFPeA	39.5		ng/L	49.4		79.9	35-150			
Surrogate: 13C5-PFHxA	20.2		ng/L	24.7		81.7	55-150			
Surrogate: 13C4-PFHpA	19.2		ng/L	24.7		77.7	55-150			
Surrogate: 13C8-PFOA	18.9		ng/L	24.7		76.5	60-140			
Surrogate: 13C9-PFNA	9.91		ng/L	12.4		80.2	55-140			
Surrogate: 13C6-PFDA	10.1		ng/L	12.4		81.5	50-140			
Surrogate: 13C7-PFUnA	9.82		ng/L	12.4		79.4	30-140			
Surrogate: 13C2-PFDoA	9.41		ng/L	12.4		76.1	10-150			
Surrogate: 13C2-PFTeDA	9.31		ng/L	12.4		75.3	10-130			
Surrogate: 13C3-PFBS	19.8		ng/L	24.7		80.1	55-150			
Surrogate: 13C3-PFHxS	19.7		ng/L	24.7		79.9	55-150			
Surrogate: 13C8-PFOS	19.8		ng/L	24.7		80.1	45-140			
Surrogate: 13C2-4:2FTS	35.2		ng/L	49.4		71.2	60-200			
Surrogate: 13C2-6:2FTS	44.2		ng/L	49.4		89.4	60-200			
Surrogate: 13C2-8:2FTS	43.6		ng/L	49.4		88.1	50-200			
Surrogate: 13C8-PFOSA	19.1		ng/L	24.7		77.3	30-130			
Surrogate: D3-NMeFOSA	16.4		ng/L	24.7		66.2	15-130			
Surrogate: D5-NEtFOSA	17.3		ng/L	24.7		70.0	10-130			
Surrogate: D3-NMeFOSAA	40.8		ng/L	49.4		82.5	45-200			
Surrogate: D5-NEtFOSAA	41.3		ng/L	49.4		83.5	10-200			
Surrogate: D7-NMeFOSE	195		ng/L	247		79.1	10-150			
Surrogate: D9-NEtFOSE	184		ng/L	247		74.2	10-150			
Surrogate: 13C3-HFPO-DA	79.1		ng/L	98.9		80.0	25-160			

LCS (B348285-BS1)

Prepared: 08/08/23 Analyzed: 08/09/23

Perfluorobutanoic acid (PFBA)	94.4	3.9	ng/L	93.5		101	58-148			
Perfluoropentanoic acid (PFPeA)	46.0	1.9	ng/L	46.8		98.4	54-152			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B348285 - Draft Method 1633										
LCS (B348285-BS1)										
Prepared: 08/08/23 Analyzed: 08/09/23										
Perfluorohexanoic acid (PFHxA)	23.1	0.97	ng/L	23.4		98.7	55-152			
Perfluoroheptanoic acid (PFHpA)	22.8	0.97	ng/L	23.4		97.4	54-154			
Perfluorooctanoic acid (PFOA)	22.9	0.97	ng/L	23.4		98.1	52-161			
Perfluorononanoic acid (PFNA)	23.4	0.97	ng/L	23.4		100	59-149			
Perfluorodecanoic acid (PFDA)	23.5	0.97	ng/L	23.4		101	52-147			
Perfluoroundecanoic acid (PFUnA)	23.1	0.97	ng/L	23.4		99.0	48-159			
Perfluorododecanoic acid (PFDoA)	23.5	0.97	ng/L	23.4		100	64-142			
Perfluorotridecanoic acid (PFTrDA)	23.2	0.97	ng/L	23.4		99.4	49-148			
Perfluorotetradecanoic acid (PFTeDA)	22.8	0.97	ng/L	23.4		97.3	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.0	0.97	ng/L	20.7		96.2	62-144			
Perfluoropentanesulfonic acid (PFPeS)	21.4	0.97	ng/L	22.0		97.4	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.7	0.97	ng/L	21.4		92.1	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.1	0.97	ng/L	22.3		99.0	55-152			
Perfluorooctanesulfonic acid (PFOS)	21.9	0.97	ng/L	21.7		101	58-149			
Perfluorononanesulfonic acid (PFNS)	22.7	0.97	ng/L	22.5		101	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.2	0.97	ng/L	22.6		98.5	51-147			
Perfluorododecanesulfonic acid (PFDoS)	21.1	0.97	ng/L	22.7		93.1	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	89.4	3.9	ng/L	87.7		102	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.0	3.9	ng/L	88.8		101	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	92.1	3.9	ng/L	90.0		102	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.9	0.97	ng/L	23.4		97.9	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	22.4	0.97	ng/L	23.4		95.7	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.4	0.97	ng/L	23.4		91.5	65-139			
N-MeFOSAA (NMeFOSAA)	22.1	0.97	ng/L	23.4		94.7	58-144			
N-EtFOSAA (NEtFOSAA)	22.9	0.97	ng/L	23.4		98.2	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	236	9.7	ng/L	234		101	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	237	9.7	ng/L	234		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.9	3.9	ng/L	93.5		95.1	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.8	3.9	ng/L	88.2		87.1	68-146			
9Cl-PF3ONS (F53B Minor)	79.2	3.9	ng/L	87.7		90.3	56-156			
11Cl-PF3OUdS (F53B Major)	77.6	3.9	ng/L	88.2		87.9	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	204	9.7	ng/L	234		87.2	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1040	49	ng/L	1170		89.1	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1000	49	ng/L	1170		85.8	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	38.7	1.9	ng/L	41.6		93.1	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	42.8	1.9	ng/L	46.8		91.5	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	43.6	1.9	ng/L	46.8		93.2	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	48.3	1.9	ng/L	46.8		103	48-161			
Surrogate: 13C4-PFBA	79.7		ng/L	97.4		81.8	10-130			
Surrogate: 13C5-PFPeA	38.6		ng/L	48.7		79.3	35-150			
Surrogate: 13C5-PFHxA	19.5		ng/L	24.4		79.9	55-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B348285 - Draft Method 1633
LCS (B348285-BS1)

Prepared: 08/08/23 Analyzed: 08/09/23

Surrogate: 13C4-PFHpA	19.1		ng/L	24.4		78.3	55-150			
Surrogate: 13C8-PFOA	20.2		ng/L	24.4		83.1	60-140			
Surrogate: 13C9-PFNA	9.81		ng/L	12.2		80.6	55-140			
Surrogate: 13C6-PFDA	9.77		ng/L	12.2		80.3	50-140			
Surrogate: 13C7-PFUnA	9.74		ng/L	12.2		80.0	30-140			
Surrogate: 13C2-PFDoA	9.15		ng/L	12.2		75.1	10-150			
Surrogate: 13C2-PFTeDA	9.21		ng/L	12.2		75.6	10-130			
Surrogate: 13C3-PFBS	19.6		ng/L	24.4		80.7	55-150			
Surrogate: 13C3-PFHxS	19.7		ng/L	24.4		81.1	55-150			
Surrogate: 13C8-PFOS	18.8		ng/L	24.4		77.2	45-140			
Surrogate: 13C2-4:2FTS	37.4		ng/L	48.7		76.8	60-200			
Surrogate: 13C2-6:2FTS	47.1		ng/L	48.7		96.7	60-200			
Surrogate: 13C2-8:2FTS	46.9		ng/L	48.7		96.2	50-200			
Surrogate: 13C8-PFOSA	18.7		ng/L	24.4		76.7	30-130			
Surrogate: D3-NMeFOSA	16.8		ng/L	24.4		68.8	15-130			
Surrogate: D5-NEtFOSA	17.7		ng/L	24.4		72.8	10-130			
Surrogate: D3-NMeFOSAA	41.7		ng/L	48.7		85.6	45-200			
Surrogate: D5-NEtFOSAA	39.6		ng/L	48.7		81.3	10-200			
Surrogate: D7-NMeFOSE	188		ng/L	244		77.2	10-150			
Surrogate: D9-NEtFOSE	180		ng/L	244		74.1	10-150			
Surrogate: 13C3-HFPO-DA	80.0		ng/L	97.4		82.2	25-160			

MRL Check (B348285-MRL1)

Prepared: 08/08/23 Analyzed: 08/09/23

Perfluorobutanoic acid (PFBA)	8.03	3.9	ng/L	7.82		103	44-157			
Perfluoropentanoic acid (PFPeA)	3.58	2.0	ng/L	3.91		91.6	57-148			
Perfluorohexanoic acid (PFHxA)	1.75	0.98	ng/L	1.95		89.6	62-149			
Perfluoroheptanoic acid (PFHpA)	1.77	0.98	ng/L	1.95		90.8	56-150			
Perfluorooctanoic acid (PFOA)	1.75	0.98	ng/L	1.95		89.3	57-161			
Perfluorononanoic acid (PFNA)	1.64	0.98	ng/L	1.95		84.1	53-157			
Perfluorodecanoic acid (PFDA)	1.60	0.98	ng/L	1.95		81.9	43-158			
Perfluoroundecanoic acid (PFUnA)	1.67	0.98	ng/L	1.95		85.7	50-155			
Perfluorododecanoic acid (PFDoA)	1.75	0.98	ng/L	1.95		89.5	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.70	0.98	ng/L	1.95		86.9	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.69	0.98	ng/L	1.95		86.7	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.56	0.98	ng/L	1.73		90.1	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.53	0.98	ng/L	1.84		83.5	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.73	0.98	ng/L	1.79		96.9	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.65	0.98	ng/L	1.86		88.5	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.63	0.98	ng/L	1.81		90.1	43-162			
Perfluorononanesulfonic acid (PFNS)	1.68	0.98	ng/L	1.88		89.5	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.52	0.98	ng/L	1.89		80.5	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.61	0.98	ng/L	1.90		84.8	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.85	3.9	ng/L	7.33		93.4	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.73	3.9	ng/L	7.42		90.6	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.53	3.9	ng/L	7.52		86.8	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.74	0.98	ng/L	1.95		89.2	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.79	0.98	ng/L	1.95		91.5	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.68	0.98	ng/L	1.95		85.9	49-156			
N-MeFOSAA (NMeFOSAA)	1.67	0.98	ng/L	1.95		85.5	32-160			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B348285 - Draft Method 1633										
MRL Check (B348285-MRL1)										
Prepared: 08/08/23 Analyzed: 08/09/23										
N-EtFOSAA (NEtFOSAA)	1.77	0.98	ng/L	1.95		90.6	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	17.3	9.8	ng/L	19.5		88.7	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	17.8	9.8	ng/L	19.5		91.1	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.29	3.9	ng/L	7.82		80.4	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.71	3.9	ng/L	7.38		77.4	61-148			
9Cl-PF3ONS (F53B Minor)	5.99	3.9	ng/L	7.33		81.7	44-167			
11Cl-PF3OUdS (F53B Major)	5.82	3.9	ng/L	7.38		78.9	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	20.7	9.8	ng/L	19.5		106	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	108	49	ng/L	97.7		111	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	102	49	ng/L	97.7		104	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.81	2.0	ng/L	3.48		80.7	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.50	2.0	ng/L	3.91		89.7	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.37	2.0	ng/L	3.91		86.3	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.42	2.0	ng/L	3.91		87.6	47-160			
Surrogate: 13C4-PFBA	77.6		ng/L	97.7		79.4	10-130			
Surrogate: 13C5-PFPeA	38.8		ng/L	48.8		79.3	35-150			
Surrogate: 13C5-PFHxA	19.6		ng/L	24.4		80.5	55-150			
Surrogate: 13C4-PFHpA	19.0		ng/L	24.4		78.0	55-150			
Surrogate: 13C8-PFOA	19.6		ng/L	24.4		80.2	60-140			
Surrogate: 13C9-PFNA	9.87		ng/L	12.2		80.8	55-140			
Surrogate: 13C6-PFDA	9.99		ng/L	12.2		81.8	50-140			
Surrogate: 13C7-PFUnA	9.75		ng/L	12.2		79.9	30-140			
Surrogate: 13C2-PFDoA	9.26		ng/L	12.2		75.8	10-150			
Surrogate: 13C2-PFTeDA	9.22		ng/L	12.2		75.5	10-130			
Surrogate: 13C3-PFBS	19.7		ng/L	24.4		80.5	55-150			
Surrogate: 13C3-PFHxS	20.0		ng/L	24.4		81.9	55-150			
Surrogate: 13C8-PFOS	19.0		ng/L	24.4		78.0	45-140			
Surrogate: 13C2-4:2FTS	35.2		ng/L	48.8		72.0	60-200			
Surrogate: 13C2-6:2FTS	43.4		ng/L	48.8		88.8	60-200			
Surrogate: 13C2-8:2FTS	43.8		ng/L	48.8		89.6	50-200			
Surrogate: 13C8-PFOA	18.0		ng/L	24.4		73.8	30-130			
Surrogate: D3-NMeFOSA	16.1		ng/L	24.4		66.1	15-130			
Surrogate: D5-NEtFOSA	16.6		ng/L	24.4		68.1	10-130			
Surrogate: D3-NMeFOSAA	40.5		ng/L	48.8		82.9	45-200			
Surrogate: D5-NEtFOSAA	39.1		ng/L	48.8		80.0	10-200			
Surrogate: D7-NMeFOSE	182		ng/L	244		74.5	10-150			
Surrogate: D9-NEtFOSE	172		ng/L	244		70.3	10-150			
Surrogate: 13C3-HFPO-DA	80.4		ng/L	97.7		82.3	25-160			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B347402 - Draft Method 1633
Blank (B347402-BLK1)

Prepared & Analyzed: 07/28/23

Total Suspended Solids	ND	5.0	mg/L							
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LCS (B347402-BS1)

Prepared & Analyzed: 07/28/23

Total Suspended Solids	145	5.0	mg/L	200		72.5	64.1-125			
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
D	Sample analyzed at a dilution.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluoronanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024



Phone: 413-525-2332
 Fax: 413-525-6405
 Access COCs and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Doc # 381 Rev 5.07/13/2021

ANALYSIS REQUESTED

23G3145
 P23

Name: **HP Assoc Inc**
 Address: **107 South Swamp Rd**
 Phone: **FAIRHAVEN, CT 06032**
 Project Location: **100 CATER MILL RD, GREAT NECK, NY**
 Project Number: **DEC100300**
 Project Manager: **DEAN KEY**
 Pace Quote Name/Number: **NVDEC**
 Invoice Recipient: **NVDEC**
 Sampled By: **DAK**

Requested Turnaround Time: **10 Day**
 Rush Approval Required:
 7-Day PFA 10-Day (Std)
 1-Day 2-Day 3-Day 4-Day
 Orthophosphate Samples: Field Filtered Lab to Filter
 Data Delivery: PDF EXCEL
 Other: **EQUS**
 CLP Like Data Req:
 Email To: **enquiry@analytical.com**
 Fax To #:

Dissolved Metals Samples: Field Filtered Lab to Filter
 PCB ONLY:
 SOXHLET:
 NON SOXHLET:
 VIALS: GLASS PLASTIC BACTERIA ENCORE
 GLASSWARE IN THE FRIDGE: Y/N
 Glassware in freezer? Y/N
 Prepackaged Cooler? Y/N
 *Pace Analytical is not responsible for missing samples from prepacked coolers

Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP GRAV	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	ANALYSIS REQUESTED	2 Preservation Code
	EPA-MW-9A	7/6/13	7:44	9	GMU	U	2						
	EPA-MW-11d		7:8				2						
	EPA-MW-21R		11:24				1						
	EPA-MW-23		11:12				2						
	EPA-MW-26		12:39				4*						
	EPA-MW-27		9:55				2						
	STA-MW-11		7:02										
	STA-MW-12		8:44										
	STA-MW-13		9:26										
	STA-MW-14		10:20										

Client Comments: **Bill directly to NYDEC Greatneck 110 Site # 130072 NYDEC contact: Rayson Long *EXTRA volume collected for Lab NYDEC CAT "B" deliveries GAOE for the G24***

Received by: (signature) **[Signature]** Date/Time: **7/14/13 1305**
 Relinquished by: (signature) **[Signature]** Date/Time: **7/14/13 1305**
 Received by: (signature) **[Signature]** Date/Time: **7/14/13 1305**
 Relinquished by: (signature) **[Signature]** Date/Time: **7/14/13 1305**
 Received by: (signature) **[Signature]** Date/Time: **7/14/13 1305**
 Relinquished by: (signature) **[Signature]** Date/Time: **7/14/13 1305**

Detection Limit Requirements: **MA**
 Special Requirements: **MA MCP Required**
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Project Entity: Government Municipality Federal City Brownfield

Other: WRIA Chromatogram AIHA-LAP, LLC AIHA-LAP, LLC

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.



Phone: 413-525-2332
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 Access COC's and Support Requests

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CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

Doc # 381 Rev 5.07/13/2021

ANALYSIS REQUESTED

Page 2 of 2

Company Name: **MA Assoc Inc**
 Address: **197 South Square Rd**
 Phone: **781-326-1111**
 Project Name: **Stations Changes**
 Project Location: **110 Carter Hill Rd, Great Neck, NY**
 Project Number: **DECI003001**
 Project Manager: **Derek Foley**
 Invoice Recipient: **NYDEC**
 Sampled By: **DNA K**

Requested Turnaround Time: **0-Day**
 Rush-Approval Required:
 1-Day: 2-Day: 3-Day: 4-Day:
 Format: PDF EXCEL
 Other: **EQUS**
 CLP Like Data Pkg Required:
 Email To: **EDSON@ASSOCIATES.COM**
 Fax To #:

Dissolved Metals Samples: Field Filtered Lab to Filter
 Orthophosphate Samples: Field Filtered Lab to Filter
 PCB ONLY: SOXHLET NON SOXHLET
VOC'S 624
PFA 1633

Preservation Code: **H**
 Courier Use: **Y**
 Total Number of: **2**
 VIALS:
 GLASS:
 PLASTIC:
 BACTERIA:
 ENCORE:
 Glassware in the fridge? **Y/N**
 Glassware in freezer? **Y/N**
 Prepackaged Cooler? **Y/N**

Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP	MATRIX	CONC	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	Preservation Code	Courier Use	Total Number of
11	STA-MW-15	7/2/23	9:39	S	GW	U	2		4*	3				
12	STA-MW-16		10:57											
13	STA-MW-17		8:52											
14	STA-MW-18		9:09											
15	STA-MW-19		9:58											
16	STA-MW-20		8:16											
17	MW-100		7:30											
18	FB-1		7:40											
19	FB-1		8:18											
20	FB-1		8:21											

Client Comments: Bill directly to NYDEC Greatneck 110 site # 330072
 NYDEC contact: Physics Long
 NYDEC contact: B' deliverable
 Extra value collected for lab analysis for
 Vc 624 kit

Received by: (signature) **[Signature]** Date/Time: **7/11/23 1305**
 Relinquished by: (signature) **[Signature]** Date/Time: **7/11/23 1305**
 Received by: (signature) **[Signature]** Date/Time: **7/11/23 1305**
 Relinquished by: (signature) **[Signature]** Date/Time: **7/11/23 1305**

Project Entity: Government Municipality Federal City Brownfield

Special Requirements: MA MCP Required MA State DW Required

Other: WRTA Chromatogram AIHA-LAP, LLC Accredited

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

August 4, 2023

Payson Long
NYDEC_HRP Associates, Inc. - Farmington, CT
197 Scott Swamp Road
Farmington, CT 06032

Project Location: 110 Cutter Mill Rd., Great Neck, NY
Client Job Number:
Project Number: 130072
Laboratory Work Order Number: 23G3147

Enclosed are results of analyses for samples as received by the laboratory on July 21, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

 NYDEC_HRP Associates, Inc. - Farmington, CT
 197 Scott Swamp Road
 Farmington, CT 06032
 ATTN: Payson Long

REPORT DATE: 8/4/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23G3147

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cutter Mill Rd., Great Neck, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
EPA-MW-9A	23G3147-01	Ground Water		624.1	
EPA-MW-11D	23G3147-02	Ground Water		624.1	
EPA-MW-21R	23G3147-03	Ground Water		624.1	
EPA-MW-23	23G3147-04	Ground Water		624.1	
EPA-MW-26	23G3147-05	Ground Water		624.1	
EPA-MW-27	23G3147-06	Ground Water		624.1	
STA-MW-11	23G3147-07	Ground Water		624.1	
STA-MW-12	23G3147-08	Ground Water		624.1	
STA-MW-13	23G3147-09	Ground Water		624.1	
STA-MW-14	23G3147-10	Ground Water		624.1	
STA-MW-15	23G3147-11	Ground Water		624.1	
STA-MW-16	23G3147-12	Ground Water		624.1	
STA-MW-17	23G3147-13	Ground Water		624.1	
STA-MW-18	23G3147-14	Ground Water		624.1	
STA-MW-19	23G3147-15	Ground Water		624.1	
STA-MW-20	23G3147-16	Ground Water		624.1	
MW-100	23G3147-17	Ground Water		624.1	
TB	23G3147-18	Trip Blank Water		624.1	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

624.1**Qualifications:****L-01**

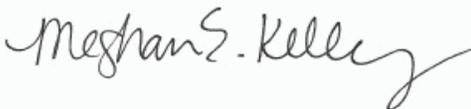
Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**1,1-Dichloroethane**

B347065-BS1, B347065-MS1, B347065-MS2, B347065-MSD1, B347065-MSD2

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-9A

Sampled: 7/20/2023 07:44

Sample ID: 23G3147-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Methylene Chloride	0.250	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 10:30	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 10:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	7/29/23 10:30
Toluene-d8	101	70-130	7/29/23 10:30
4-Bromofluorobenzene	93.2	70-130	7/29/23 10:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-11D

Sampled: 7/20/2023 07:18

Sample ID: 23G3147-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Methylene Chloride	0.230	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 10:58	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 10:58	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	7/29/23 10:58
Toluene-d8	102	70-130	7/29/23 10:58
4-Bromofluorobenzene	91.9	70-130	7/29/23 10:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-21R

Sampled: 7/20/2023 11:24

Sample ID: 23G3147-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Methylene Chloride	0.260	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 11:26	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Tetrachloroethylene	11.0	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 11:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.9	70-130	7/29/23 11:26
Toluene-d8	101	70-130	7/29/23 11:26
4-Bromofluorobenzene	93.5	70-130	7/29/23 11:26

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-23

Sampled: 7/20/2023 11:12

Sample ID: 23G3147-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Methylene Chloride	0.260	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 11:55	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Tetrachloroethylene	0.550	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 11:55	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 11:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.0	70-130	7/29/23 11:55
Toluene-d8	103	70-130	7/29/23 11:55
4-Bromofluorobenzene	92.4	70-130	7/29/23 11:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-26

Sampled: 7/20/2023 10:39

Sample ID: 23G3147-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Methylene Chloride	0.270	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 12:22	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Tetrachloroethylene	0.400	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 12:22	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 12:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.0	70-130	7/29/23 12:22
Toluene-d8	103	70-130	7/29/23 12:22
4-Bromofluorobenzene	93.0	70-130	7/29/23 12:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: EPA-MW-27

Sampled: 7/20/2023 09:55

Sample ID: 23G3147-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Methylene Chloride	<0.176	5.00	0.176	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 12:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.4	70-130	7/29/23 12:50
Toluene-d8	102	70-130	7/29/23 12:50
4-Bromofluorobenzene	92.2	70-130	7/29/23 12:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-11

Sampled: 7/20/2023 07:02

Sample ID: 23G3147-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Methylene Chloride	0.220	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 13:18	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Tetrachloroethylene	0.170	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 13:18	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 13:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.8	70-130	7/29/23 13:18
Toluene-d8	99.9	70-130	7/29/23 13:18
4-Bromofluorobenzene	92.7	70-130	7/29/23 13:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-12

Sampled: 7/20/2023 08:44

Sample ID: 23G3147-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Methylene Chloride	0.210	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 13:46	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Tetrachloroethylene	1.50	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 13:46	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 13:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.8	70-130	7/29/23 13:46
Toluene-d8	102	70-130	7/29/23 13:46
4-Bromofluorobenzene	94.3	70-130	7/29/23 13:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-13

Sampled: 7/20/2023 09:26

Sample ID: 23G3147-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Chloroform	1.32	2.00	0.140	µg/L	1	J	624.1	7/26/23	7/29/23 14:14	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Methylene Chloride	0.250	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 14:14	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Tetrachloroethylene	0.300	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 14:14	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 14:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.5	70-130	7/29/23 14:14
Toluene-d8	100	70-130	7/29/23 14:14
4-Bromofluorobenzene	94.2	70-130	7/29/23 14:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-14

Sampled: 7/20/2023 10:20

Sample ID: 23G3147-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,1-Dichloroethylene	0.960	2.00	0.141	µg/L	1	J	624.1	7/26/23	7/29/23 14:41	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Methylene Chloride	0.240	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 14:41	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Tetrachloroethylene	0.460	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 14:41	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Trichloroethylene	0.220	2.00	0.174	µg/L	1	J	624.1	7/26/23	7/29/23 14:41	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 14:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.0	70-130	7/29/23 14:41
Toluene-d8	101	70-130	7/29/23 14:41
4-Bromofluorobenzene	93.4	70-130	7/29/23 14:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-15

Sampled: 7/20/2023 09:39

Sample ID: 23G3147-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Methylene Chloride	0.240	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 15:10	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 15:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.4	70-130	7/29/23 15:10
Toluene-d8	101	70-130	7/29/23 15:10
4-Bromofluorobenzene	92.4	70-130	7/29/23 15:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-16

Sampled: 7/20/2023 10:57

Sample ID: 23G3147-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Methylene Chloride	0.220	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 15:38	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Tetrachloroethylene	0.610	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 15:38	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 15:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.5	70-130	7/29/23 15:38
Toluene-d8	101	70-130	7/29/23 15:38
4-Bromofluorobenzene	94.9	70-130	7/29/23 15:38

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-17

Sampled: 7/20/2023 08:32

Sample ID: 23G3147-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Methylene Chloride	0.220	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 16:05	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 16:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.3	70-130	7/29/23 16:05
Toluene-d8	101	70-130	7/29/23 16:05
4-Bromofluorobenzene	94.5	70-130	7/29/23 16:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-18

Sampled: 7/20/2023 09:09

Sample ID: 23G3147-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Chloroform	0.160	2.00	0.140	µg/L	1	J	624.1	7/26/23	7/29/23 16:33	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,1-Dichloroethylene	0.390	2.00	0.141	µg/L	1	J	624.1	7/26/23	7/29/23 16:33	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Methylene Chloride	0.260	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 16:33	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Tetrachloroethylene	4.17	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Trichloroethylene	0.540	2.00	0.174	µg/L	1	J	624.1	7/26/23	7/29/23 16:33	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 16:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.4	70-130	7/29/23 16:33
Toluene-d8	100	70-130	7/29/23 16:33
4-Bromofluorobenzene	91.8	70-130	7/29/23 16:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-19

Sampled: 7/20/2023 07:58

Sample ID: 23G3147-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Methylene Chloride	0.230	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 17:01	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Tetrachloroethylene	169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Trichloroethylene	0.890	2.00	0.174	µg/L	1	J	624.1	7/26/23	7/29/23 17:01	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 17:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.3	70-130	7/29/23 17:01
Toluene-d8	98.4	70-130	7/29/23 17:01
4-Bromofluorobenzene	93.2	70-130	7/29/23 17:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: STA-MW-20

Sampled: 7/20/2023 08:16

Sample ID: 23G3147-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,1-Dichloroethylene	0.720	2.00	0.141	µg/L	1	J	624.1	7/26/23	7/29/23 17:28	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Methylene Chloride	0.250	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 17:28	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Tetrachloroethylene	1.61	2.00	0.169	µg/L	1	J	624.1	7/26/23	7/29/23 17:28	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Trichloroethylene	0.280	2.00	0.174	µg/L	1	J	624.1	7/26/23	7/29/23 17:28	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 17:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.8	70-130	7/29/23 17:28
Toluene-d8	99.2	70-130	7/29/23 17:28
4-Bromofluorobenzene	92.1	70-130	7/29/23 17:28

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: MW-100

Sampled: 7/20/2023 07:30

Sample ID: 23G3147-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Methylene Chloride	0.250	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 17:56	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 17:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.9	70-130	7/29/23 17:56
Toluene-d8	99.3	70-130	7/29/23 17:56
4-Bromofluorobenzene	94.6	70-130	7/29/23 17:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 110 Cutter Mill Rd., Great Neck,

Sample Description:

Work Order: 23G3147

Date Received: 7/21/2023

Field Sample #: TB

Sampled: 7/20/2023 07:40

Sample ID: 23G3147-18

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.184	1.00	0.184	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Bromodichloromethane	<0.158	2.00	0.158	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Bromoform	<0.408	2.00	0.408	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Bromomethane	<1.32	2.00	1.32	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Carbon Tetrachloride	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Chlorobenzene	<0.119	2.00	0.119	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Chlorodibromomethane	<0.200	2.00	0.200	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Chloroethane	<0.342	2.00	0.342	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Chloroform	<0.140	2.00	0.140	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Chloromethane	<0.503	2.00	0.503	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,2-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,3-Dichlorobenzene	<0.137	2.00	0.137	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,4-Dichlorobenzene	<0.128	2.00	0.128	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,2-Dichloroethane	<0.304	2.00	0.304	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,1-Dichloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
trans-1,2-Dichloroethylene	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,2-Dichloropropane	<0.193	2.00	0.193	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
cis-1,3-Dichloropropene	<0.164	2.00	0.164	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
trans-1,3-Dichloropropene	<0.142	2.00	0.142	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Ethylbenzene	<0.221	2.00	0.221	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Methyl tert-Butyl Ether (MTBE)	<0.171	2.00	0.171	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Methylene Chloride	0.230	5.00	0.176	µg/L	1	J	624.1	7/26/23	7/29/23 10:02	EEH
1,1,2,2-Tetrachloroethane	<0.136	2.00	0.136	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Tetrachloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Toluene	<0.223	1.00	0.223	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,1,1-Trichloroethane	<0.150	2.00	0.150	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
1,1,2-Trichloroethane	<0.191	2.00	0.191	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Trichloroethylene	<0.174	2.00	0.174	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Trichlorofluoromethane (Freon 11)	<0.155	2.00	0.155	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
Vinyl Chloride	<0.237	2.00	0.237	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
m+p Xylene	<0.492	2.00	0.492	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH
o-Xylene	<0.243	1.00	0.243	µg/L	1		624.1	7/26/23	7/29/23 10:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	7/29/23 10:02
Toluene-d8	101	70-130	7/29/23 10:02
4-Bromofluorobenzene	91.7	70-130	7/29/23 10:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**Prep Method:SW-846 5030B Analytical Method:624.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23G3147-01 [EPA-MW-9A]	B347065	5	5.00	07/26/23
23G3147-02 [EPA-MW-11D]	B347065	5	5.00	07/26/23
23G3147-03 [EPA-MW-21R]	B347065	5	5.00	07/26/23
23G3147-04 [EPA-MW-23]	B347065	5	5.00	07/26/23
23G3147-05 [EPA-MW-26]	B347065	5	5.00	07/26/23
23G3147-06 [EPA-MW-27]	B347065	5	5.00	07/26/23
23G3147-07 [STA-MW-11]	B347065	5	5.00	07/26/23
23G3147-08 [STA-MW-12]	B347065	5	5.00	07/26/23
23G3147-09 [STA-MW-13]	B347065	5	5.00	07/26/23
23G3147-10 [STA-MW-14]	B347065	5	5.00	07/26/23
23G3147-11 [STA-MW-15]	B347065	5	5.00	07/26/23
23G3147-12 [STA-MW-16]	B347065	5	5.00	07/26/23
23G3147-13 [STA-MW-17]	B347065	5	5.00	07/26/23
23G3147-14 [STA-MW-18]	B347065	5	5.00	07/26/23
23G3147-15 [STA-MW-19]	B347065	5	5.00	07/26/23
23G3147-16 [STA-MW-20]	B347065	5	5.00	07/26/23
23G3147-17 [MW-100]	B347065	5	5.00	07/26/23
23G3147-18 [TB]	B347065	5	5.00	07/26/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B347065 - SW-846 5030B
Blank (B347065-BLK1)

Prepared: 07/26/23 Analyzed: 07/29/23

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.1		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.2		µg/L	25.0		92.6	70-130			

LCS (B347065-BS1)

Prepared: 07/26/23 Analyzed: 07/29/23

Benzene	25	1.00	µg/L	20.0		124	65-135			
Bromodichloromethane	22	2.00	µg/L	20.0		109	65-135			
Bromoform	18	2.00	µg/L	20.0		90.2	70-130			
Bromomethane	10	2.00	µg/L	20.0		50.6	15-185			
Carbon Tetrachloride	23	2.00	µg/L	20.0		113	70-130			
Chlorobenzene	20	2.00	µg/L	20.0		102	65-135			
Chlorodibromomethane	21	2.00	µg/L	20.0		104	70-135			
Chloroethane	17	2.00	µg/L	20.0		83.8	40-160			
Chloroform	25	2.00	µg/L	20.0		124	70-135			
Chloromethane	8.8	2.00	µg/L	20.0		44.1	20-205			
1,2-Dichlorobenzene	22	2.00	µg/L	20.0		110	65-135			
1,3-Dichlorobenzene	22	2.00	µg/L	20.0		109	70-130			
1,4-Dichlorobenzene	21	2.00	µg/L	20.0		103	65-135			
1,2-Dichloroethane	20	2.00	µg/L	20.0		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347065 - SW-846 5030B										
LCS (B347065-BS1)										
					Prepared: 07/26/23 Analyzed: 07/29/23					
1,1-Dichloroethane	29	2.00	µg/L	20.0		144 *	70-130			L-01
1,1-Dichloroethylene	17	2.00	µg/L	20.0		86.2	50-150			
trans-1,2-Dichloroethylene	26	2.00	µg/L	20.0		128	70-130			
1,2-Dichloropropane	25	2.00	µg/L	20.0		127	35-165			
cis-1,3-Dichloropropene	22	2.00	µg/L	20.0		112	25-175			
trans-1,3-Dichloropropene	23	2.00	µg/L	20.0		117	50-150			
Ethylbenzene	22	2.00	µg/L	20.0		111	60-140			
Methyl tert-Butyl Ether (MTBE)	23	2.00	µg/L	20.0		113	70-130			
Methylene Chloride	18	5.00	µg/L	20.0		90.4	60-140			
1,1,2,2-Tetrachloroethane	22	2.00	µg/L	20.0		109	60-140			
Tetrachloroethylene	20	2.00	µg/L	20.0		98.6	70-130			
Toluene	22	1.00	µg/L	20.0		112	70-130			
1,1,1-Trichloroethane	24	2.00	µg/L	20.0		121	70-130			
1,1,2-Trichloroethane	23	2.00	µg/L	20.0		117	70-130			
Trichloroethylene	22	2.00	µg/L	20.0		112	65-135			
Trichlorofluoromethane (Freon 11)	15	2.00	µg/L	20.0		74.4	50-150			
Vinyl Chloride	19	2.00	µg/L	20.0		95.3	5-195			
m+p Xylene	43	2.00	µg/L	40.0		107	70-130			
o-Xylene	22	1.00	µg/L	20.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	26.4		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		96.0	70-130			
Matrix Spike (B347065-MS1)										
			Source: 23G3147-04		Prepared: 07/26/23 Analyzed: 07/29/23					
Benzene	22	1.00	µg/L	20.0	ND	108	37-151			
Bromodichloromethane	21	2.00	µg/L	20.0	ND	105	35-155			
Bromoform	21	2.00	µg/L	20.0	ND	106	45-169			
Bromomethane	9.4	2.00	µg/L	20.0	ND	47.2	20-242			
Carbon Tetrachloride	20	2.00	µg/L	20.0	ND	102	70-140			
Chlorobenzene	21	2.00	µg/L	20.0	ND	106	37-160			
Chlorodibromomethane	21	2.00	µg/L	20.0	ND	106	53-149			
Chloroethane	14	2.00	µg/L	20.0	ND	69.4	14-230			
Chloroform	22	2.00	µg/L	20.0	ND	108	51-138			
Chloromethane	7.2	2.00	µg/L	20.0	ND	36.0	20-273			
1,2-Dichlorobenzene	21	2.00	µg/L	20.0	ND	107	18-190			
1,3-Dichlorobenzene	21	2.00	µg/L	20.0	ND	105	59-156			
1,4-Dichlorobenzene	20	2.00	µg/L	20.0	ND	101	18-190			
1,2-Dichloroethane	18	2.00	µg/L	20.0	ND	89.8	49-155			
1,1-Dichloroethane	24	2.00	µg/L	20.0	ND	121	59-155			L-01
1,1-Dichloroethylene	14	2.00	µg/L	20.0	ND	71.8	20-234			
trans-1,2-Dichloroethylene	21	2.00	µg/L	20.0	ND	104	54-156			
1,2-Dichloropropane	22	2.00	µg/L	20.0	ND	112	20-210			
cis-1,3-Dichloropropene	20	2.00	µg/L	20.0	ND	98.0	20-227			
trans-1,3-Dichloropropene	20	2.00	µg/L	20.0	ND	102	17-183			
Ethylbenzene	22	2.00	µg/L	20.0	ND	111	37-162			
Methyl tert-Butyl Ether (MTBE)	18	2.00	µg/L	20.0	ND	92.2	70-130			
Methylene Chloride	16	5.00	µg/L	20.0	0.26	78.9	20-221			
1,1,2,2-Tetrachloroethane	22	2.00	µg/L	20.0	ND	111	46-157			
Tetrachloroethylene	21	2.00	µg/L	20.0	0.55	102	64-148			
Toluene	22	1.00	µg/L	20.0	ND	108	47-150			
1,1,1-Trichloroethane	22	2.00	µg/L	20.0	ND	109	52-162			
1,1,2-Trichloroethane	22	2.00	µg/L	20.0	ND	112	52-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347065 - SW-846 5030B										
Matrix Spike (B347065-MS1)										
		Source: 23G3147-04			Prepared: 07/26/23 Analyzed: 07/29/23					
Trichloroethylene	21	2.00	µg/L	20.0	ND	106	70-157			
Trichlorofluoromethane (Freon 11)	13	2.00	µg/L	20.0	ND	66.7	17-181			
Vinyl Chloride	16	2.00	µg/L	20.0	ND	81.3	20-251			
m+p Xylene	43	2.00	µg/L	40.0	ND	106	70-130			
o-Xylene	22	1.00	µg/L	20.0	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.0		µg/L	25.0		88.0	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		97.8	70-130			
Matrix Spike (B347065-MS2)										
		Source: 23G3147-12			Prepared: 07/26/23 Analyzed: 07/29/23					
Benzene	23	1.00	µg/L	20.0	ND	117	37-151			
Bromodichloromethane	23	2.00	µg/L	20.0	ND	115	35-155			
Bromoform	23	2.00	µg/L	20.0	ND	115	45-169			
Bromomethane	13	2.00	µg/L	20.0	ND	63.4	20-242			
Carbon Tetrachloride	22	2.00	µg/L	20.0	ND	112	70-140			
Chlorobenzene	23	2.00	µg/L	20.0	ND	117	37-160			
Chlorodibromomethane	24	2.00	µg/L	20.0	ND	119	53-149			
Chloroethane	15	2.00	µg/L	20.0	ND	75.4	14-230			
Chloroform	24	2.00	µg/L	20.0	ND	119	51-138			
Chloromethane	10	2.00	µg/L	20.0	ND	52.1	20-273			
1,2-Dichlorobenzene	25	2.00	µg/L	20.0	ND	124	18-190			
1,3-Dichlorobenzene	24	2.00	µg/L	20.0	ND	121	59-156			
1,4-Dichlorobenzene	23	2.00	µg/L	20.0	ND	114	18-190			
1,2-Dichloroethane	20	2.00	µg/L	20.0	ND	99.4	49-155			
1,1-Dichloroethane	26	2.00	µg/L	20.0	ND	131	59-155			L-01
1,1-Dichloroethylene	15	2.00	µg/L	20.0	ND	77.2	20-234			
trans-1,2-Dichloroethylene	23	2.00	µg/L	20.0	ND	113	54-156			
1,2-Dichloropropane	25	2.00	µg/L	20.0	ND	125	20-210			
cis-1,3-Dichloropropene	21	2.00	µg/L	20.0	ND	107	20-227			
trans-1,3-Dichloropropene	22	2.00	µg/L	20.0	ND	111	17-183			
Ethylbenzene	24	2.00	µg/L	20.0	ND	122	37-162			
Methyl tert-Butyl Ether (MTBE)	20	2.00	µg/L	20.0	ND	99.2	70-130			
Methylene Chloride	17	5.00	µg/L	20.0	0.22	85.6	20-221			
1,1,2,2-Tetrachloroethane	24	2.00	µg/L	20.0	ND	120	46-157			
Tetrachloroethylene	23	2.00	µg/L	20.0	0.61	111	64-148			
Toluene	23	1.00	µg/L	20.0	ND	117	47-150			
1,1,1-Trichloroethane	24	2.00	µg/L	20.0	ND	118	52-162			
1,1,2-Trichloroethane	25	2.00	µg/L	20.0	ND	123	52-150			
Trichloroethylene	23	2.00	µg/L	20.0	ND	117	70-157			
Trichlorofluoromethane (Freon 11)	15	2.00	µg/L	20.0	ND	73.0	17-181			
Vinyl Chloride	18	2.00	µg/L	20.0	ND	91.5	20-251			
m+p Xylene	47	2.00	µg/L	40.0	ND	117	70-130			
o-Xylene	24	1.00	µg/L	20.0	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.0		µg/L	25.0		87.8	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347065 - SW-846 5030B										
Matrix Spike Dup (B347065-MSD1)										
		Source: 23G3147-04			Prepared: 07/26/23 Analyzed: 07/29/23					
Benzene	21	1.00	µg/L	20.0	ND	105	37-151	2.96	61	
Bromodichloromethane	21	2.00	µg/L	20.0	ND	103	35-155	2.31	56	
Bromoform	20	2.00	µg/L	20.0	ND	99.4	45-169	6.34	42	
Bromomethane	11	2.00	µg/L	20.0	ND	56.2	20-242	17.2	61	
Carbon Tetrachloride	20	2.00	µg/L	20.0	ND	101	70-140	0.494	41	
Chlorobenzene	21	2.00	µg/L	20.0	ND	103	37-160	2.20	53	
Chlorodibromomethane	21	2.00	µg/L	20.0	ND	103	53-149	2.77	50	
Chloroethane	14	2.00	µg/L	20.0	ND	70.3	14-230	1.29	78	
Chloroform	21	2.00	µg/L	20.0	ND	106	51-138	2.47	54	
Chloromethane	8.6	2.00	µg/L	20.0	ND	42.8	20-273	17.1	60	
1,2-Dichlorobenzene	22	2.00	µg/L	20.0	ND	110	18-190	2.85	57	
1,3-Dichlorobenzene	21	2.00	µg/L	20.0	ND	106	59-156	1.13	43	
1,4-Dichlorobenzene	20	2.00	µg/L	20.0	ND	101	18-190	0.644	57	
1,2-Dichloroethane	18	2.00	µg/L	20.0	ND	89.0	49-155	0.895	49	
1,1-Dichloroethane	23	2.00	µg/L	20.0	ND	117	59-155	3.40	40	L-01
1,1-Dichloroethylene	14	2.00	µg/L	20.0	ND	70.5	20-234	1.76	32	
trans-1,2-Dichloroethylene	20	2.00	µg/L	20.0	ND	102	54-156	2.14	45	
1,2-Dichloropropane	22	2.00	µg/L	20.0	ND	111	20-210	1.30	55	
cis-1,3-Dichloropropene	19	2.00	µg/L	20.0	ND	95.4	20-227	2.64	58	
trans-1,3-Dichloropropene	20	2.00	µg/L	20.0	ND	101	17-183	0.883	86	
Ethylbenzene	21	2.00	µg/L	20.0	ND	107	37-162	3.53	63	
Methyl tert-Butyl Ether (MTBE)	18	2.00	µg/L	20.0	ND	88.1	70-130	4.49	20	
Methylene Chloride	14	5.00	µg/L	20.0	0.26	71.0	20-221	10.3	28	
1,1,2,2-Tetrachloroethane	21	2.00	µg/L	20.0	ND	106	46-157	4.65	61	
Tetrachloroethylene	21	2.00	µg/L	20.0	0.55	101	64-148	1.05	39	
Toluene	21	1.00	µg/L	20.0	ND	105	47-150	2.64	41	
1,1,1-Trichloroethane	21	2.00	µg/L	20.0	ND	105	52-162	3.18	36	
1,1,2-Trichloroethane	22	2.00	µg/L	20.0	ND	109	52-150	2.54	45	
Trichloroethylene	21	2.00	µg/L	20.0	ND	106	70-157	0.330	48	
Trichlorofluoromethane (Freon 11)	13	2.00	µg/L	20.0	ND	66.4	17-181	0.376	84	
Vinyl Chloride	16	2.00	µg/L	20.0	ND	79.5	20-251	2.24	66	
m+p Xylene	41	2.00	µg/L	40.0	ND	102	70-130	3.85	20	
o-Xylene	21	1.00	µg/L	20.0	ND	106	70-130	5.13	20	
Surrogate: 1,2-Dichloroethane-d4	22.0		µg/L	25.0		87.9	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		96.1	70-130			
Matrix Spike Dup (B347065-MSD2)										
		Source: 23G3147-12			Prepared: 07/26/23 Analyzed: 07/29/23					
Benzene	21	1.00	µg/L	20.0	ND	106	37-151	9.76	61	
Bromodichloromethane	20	2.00	µg/L	20.0	ND	102	35-155	12.7	56	
Bromoform	20	2.00	µg/L	20.0	ND	101	45-169	12.4	42	
Bromomethane	12	2.00	µg/L	20.0	ND	58.4	20-242	8.29	61	
Carbon Tetrachloride	20	2.00	µg/L	20.0	ND	101	70-140	10.6	41	
Chlorobenzene	21	2.00	µg/L	20.0	ND	106	37-160	10.3	53	
Chlorodibromomethane	21	2.00	µg/L	20.0	ND	104	53-149	13.5	50	
Chloroethane	14	2.00	µg/L	20.0	ND	69.4	14-230	8.28	78	
Chloroform	22	2.00	µg/L	20.0	ND	108	51-138	9.99	54	
Chloromethane	9.6	2.00	µg/L	20.0	ND	48.1	20-273	7.98	60	
1,2-Dichlorobenzene	22	2.00	µg/L	20.0	ND	110	18-190	12.3	57	
1,3-Dichlorobenzene	22	2.00	µg/L	20.0	ND	108	59-156	11.5	43	
1,4-Dichlorobenzene	21	2.00	µg/L	20.0	ND	103	18-190	10.9	57	
1,2-Dichloroethane	18	2.00	µg/L	20.0	ND	89.6	49-155	10.4	49	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B347065 - SW-846 5030B										
Matrix Spike Dup (B347065-MSD2)										
		Source: 23G3147-12			Prepared: 07/26/23 Analyzed: 07/29/23					
1,1-Dichloroethane	24	2.00	µg/L	20.0	ND	119	59-155	9.57	40	L-01
1,1-Dichloroethylene	14	2.00	µg/L	20.0	ND	70.3	20-234	9.29	32	
trans-1,2-Dichloroethylene	21	2.00	µg/L	20.0	ND	104	54-156	8.42	45	
1,2-Dichloropropane	22	2.00	µg/L	20.0	ND	111	20-210	11.4	55	
cis-1,3-Dichloropropene	19	2.00	µg/L	20.0	ND	96.6	20-227	9.94	58	
trans-1,3-Dichloropropene	20	2.00	µg/L	20.0	ND	101	17-183	9.78	86	
Ethylbenzene	22	2.00	µg/L	20.0	ND	112	37-162	8.51	63	
Methyl tert-Butyl Ether (MTBE)	18	2.00	µg/L	20.0	ND	88.4	70-130	11.5	20	
Methylene Chloride	14	5.00	µg/L	20.0	0.22	70.4	20-221	19.3	28	
1,1,2,2-Tetrachloroethane	22	2.00	µg/L	20.0	ND	108	46-157	10.5	61	
Tetrachloroethylene	21	2.00	µg/L	20.0	0.61	103	64-148	6.77	39	
Toluene	21	1.00	µg/L	20.0	ND	107	47-150	8.95	41	
1,1,1-Trichloroethane	21	2.00	µg/L	20.0	ND	106	52-162	11.2	36	
1,1,2-Trichloroethane	22	2.00	µg/L	20.0	ND	108	52-150	13.1	45	
Trichloroethylene	22	2.00	µg/L	20.0	ND	109	70-157	6.74	48	
Trichlorofluoromethane (Freon 11)	13	2.00	µg/L	20.0	ND	66.4	17-181	9.61	84	
Vinyl Chloride	16	2.00	µg/L	20.0	ND	82.4	20-251	10.5	66	
m+p Xylene	42	2.00	µg/L	40.0	ND	105	70-130	10.5	20	
o-Xylene	22	1.00	µg/L	20.0	ND	110	70-130	10.7	20	
Surrogate: 1,2-Dichloroethane-d4	21.8		µg/L	25.0		87.4	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.1	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

39 Spruce Street
East Longmeadow, MA 01028

Phone: 413-525-2332
Fax: 413-525-6405
Access COC's and Support Requests

CHAIN OF CUSTODY RECORD

Requested Turnaround Time
 0-Day
 10-Day (std)
 1-Day
 2-Day
 3-Day
 4-Day

Due Date: _____

Rush-Approval Required
 Field Filtered
 Lab to Filter
 Orthophosphate Samples
 Field Filtered
 Lab to Filter

PCB ONLY
 SOXHLET
 NON SOXHLET

Data Delivery
 EXCEL
 PDF
 Other: EDJIS

CLP Like Data Pkg Required:

Email To: EDON@PACELABS.COM

Fax To #: _____

Company Name: MSP Assoc Inc

Address: 197 Scott Swamp Rd

Phone: PARSONS CT 06032

Project Name: STANTON CLEANERS

Project Location: 110 Water Mill Rd, Great Neck, NY

Project Number: DEC10030M

Project Manager: Delek boy

Invoice Quote Name/Number: NVDEC

Invoice Recipient: DNA, Inc

Sampled By: _____

ANALYSIS REQUESTED

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP (COC)	Matrix Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
STA-MW-15	7/2/23	9:39	S	SAU 4	2				
STA-MW-16		10:57			4*				
STA-MW-17		8:32			2				
STA-MW-18		9:09			1				
STA-MW-19		7:58			2				
STA-MW-20		8:16			1				
MW-100		7:30			2				
TB-1		7:00							
EB-1		8:18							
FB-1		8:21							

Relinquished by: (signature) _____ Date/Time: 7/12/23 8:28

Received by: (signature) _____ Date/Time: 7/12/23 8:28

Relinquished by: (signature) _____ Date/Time: 7/12/23 8:03

Received by: (signature) _____ Date/Time: 7-21-23 1305

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Client Comments: Bill directly to NYDEC Greenback 110 site # 13072
 NYDEC contact: Patsy Long
 NYDEC contact: 'B' Deliverable
 Extra volume collected to lab at lab for VEC 6/24/23

Detection Limit Requirements
 MA MA MCP Required
 CT CT RCP Required

Special Requirements
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Project Entity
 Government Municipality WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA AIHA-LAP/LLC

PWSID # _____

Preservation Codes:
 1 = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Lab Comments: _____

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. Chain of Custody is a legal document that must be complete and accurate and is used to determine who analyzes the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client HRP

Project Stanton Chambers

MCP/RCP Required no

Deliverable Package Requirement NY Cat B

Location 110 Custer Mill Rd, Great Neck, NY

PWSID# (When Applicable) na

Arrival Method:

Courier Fed Ex Walk In Other

Received By / Date / Time AM 7/21/23 1305

Back-Sheet By / Date / Time Mem 7/24/23 1858

Temperature Method Gun # 4

Temp < 6° C Actual Temperature 40

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH:	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

* Split from 23G3145

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

September 8, 2023

Payson Long
NYDEC_HRP Associates, Inc. - Farmington, CT
197 Scott Swamp Road
Farmington, CT 06032

Project Location: 110 Cottermill Rd, Greatnec, NY
Client Job Number:
Project Number: 130072
Laboratory Work Order Number: 23I0065

Enclosed are results of analyses for samples as received by the laboratory on August 31, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_HRP Associates, Inc. - Farmington, CT
197 Scott Swamp Road
Farmington, CT 06032
ATTN: Payson Long

REPORT DATE: 9/8/2023

PURCHASE ORDER NUMBER: 141716

PROJECT NUMBER: 130072

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 2310065

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 110 Cottermill Rd, Greatnec, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE-INF	2310065-01	Soil Gas		EPA TO-15	
SVE-EFF	2310065-02	Soil Gas		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EPA TO-15**Qualifications:****A-09**

Holding times and stability of samples taken in tedlar bags have not been determined

Analyte & Samples(s) Qualified:

23I0065-01[SVE-INF], 23I0065-02[SVE-EFF]

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

B351335-BS1

Hexachlorobutadiene

B351335-BS1

Naphthalene

B351335-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23I0065-01[SVE-INF]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**1,3,5-Trimethylbenzene**

23I0065-02[SVE-EFF], B351335-BS1, S093091-CCV1

1,3-Dichlorobenzene

B351335-BS1, S093091-CCV1

Dichlorodifluoromethane (Freon 12)

23I0065-02[SVE-EFF], B351335-BS1, S093091-CCV1

Propene

B351335-BS1, S093091-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

B351335-BS1, S093091-CCV1

Hexachlorobutadiene

B351335-BS1, S093091-CCV1

Naphthalene

B351335-BS1, S093091-CCV1

Z-01

Calibrations RSD for this compound is >30% but <40%.

Analyte & Samples(s) Qualified:**Naphthalene**

23I0065-01[SVE-INF], 23I0065-02[SVE-EFF], B351335-BLK1, B351335-BS1, S093091-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location: 110 Cottermill Rd, Greatnec, NY
 Date Received: 8/31/2023
 Field Sample #: SVE-INF
 Sample ID: 2310065-01
 Sample Matrix: Soil Gas
 Sampled: 8/29/2023 07:11

 Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

 Work Order: 2310065
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: A-09, RL-11

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	400		ND	950	200	9/5/23	17:54	CMR
Benzene	ND	10		ND	32	200	9/5/23	17:54	CMR
Benzyl chloride	ND	40		ND	210	200	9/5/23	17:54	CMR
Bromodichloromethane	ND	10		ND	67	200	9/5/23	17:54	CMR
Bromoform	ND	10		ND	100	200	9/5/23	17:54	CMR
Bromomethane	ND	10		ND	39	200	9/5/23	17:54	CMR
1,3-Butadiene	ND	10		ND	22	200	9/5/23	17:54	CMR
2-Butanone (MEK)	ND	400		ND	1200	200	9/5/23	17:54	CMR
Carbon Disulfide	ND	100		ND	310	200	9/5/23	17:54	CMR
Carbon Tetrachloride	ND	10		ND	63	200	9/5/23	17:54	CMR
Chlorobenzene	ND	10		ND	46	200	9/5/23	17:54	CMR
Chloroethane	ND	10		ND	26	200	9/5/23	17:54	CMR
Chloroform	ND	10		ND	49	200	9/5/23	17:54	CMR
Chloromethane	ND	20		ND	41	200	9/5/23	17:54	CMR
Cyclohexane	ND	10		ND	34	200	9/5/23	17:54	CMR
Dibromochloromethane	ND	10		ND	85	200	9/5/23	17:54	CMR
1,2-Dibromoethane (EDB)	ND	10		ND	77	200	9/5/23	17:54	CMR
1,2-Dichlorobenzene	ND	10		ND	60	200	9/5/23	17:54	CMR
1,3-Dichlorobenzene	ND	10		ND	60	200	9/5/23	17:54	CMR
1,4-Dichlorobenzene	ND	10		ND	60	200	9/5/23	17:54	CMR
Dichlorodifluoromethane (Freon 12)	ND	10		ND	49	200	9/5/23	17:54	CMR
1,1-Dichloroethane	ND	10		ND	40	200	9/5/23	17:54	CMR
1,2-Dichloroethane	ND	10		ND	40	200	9/5/23	17:54	CMR
1,1-Dichloroethylene	ND	10		ND	40	200	9/5/23	17:54	CMR
cis-1,2-Dichloroethylene	54	10		220	40	200	9/5/23	17:54	CMR
trans-1,2-Dichloroethylene	ND	10		ND	40	200	9/5/23	17:54	CMR
1,2-Dichloropropane	ND	10		ND	46	200	9/5/23	17:54	CMR
cis-1,3-Dichloropropene	ND	10		ND	45	200	9/5/23	17:54	CMR
trans-1,3-Dichloropropene	ND	10		ND	45	200	9/5/23	17:54	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	10		ND	70	200	9/5/23	17:54	CMR
1,4-Dioxane	ND	100		ND	360	200	9/5/23	17:54	CMR
Ethanol	ND	400		ND	750	200	9/5/23	17:54	CMR
Ethyl Acetate	ND	100		ND	360	200	9/5/23	17:54	CMR
Ethylbenzene	ND	10		ND	43	200	9/5/23	17:54	CMR
4-Ethyltoluene	ND	10		ND	49	200	9/5/23	17:54	CMR
Heptane	ND	10		ND	41	200	9/5/23	17:54	CMR
Hexachlorobutadiene	ND	10		ND	110	200	9/5/23	17:54	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location: 110 Cottermill Rd, Greatnec, NY
 Date Received: 8/31/2023
Field Sample #: SVE-INF
Sample ID: 2310065-01
 Sample Matrix: Soil Gas
 Sampled: 8/29/2023 07:11

 Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 2310065
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: A-09, RL-11

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analized		
Hexane	ND	400		ND	1400	200	9/5/23	17:54	CMR
2-Hexanone (MBK)	ND	40		ND	160	200	9/5/23	17:54	CMR
Isopropanol	ND	400		ND	980	200	9/5/23	17:54	CMR
Methyl tert-Butyl Ether (MTBE)	ND	10		ND	36	200	9/5/23	17:54	CMR
Methylene Chloride	ND	100		ND	350	200	9/5/23	17:54	CMR
4-Methyl-2-pentanone (MIBK)	ND	10		ND	41	200	9/5/23	17:54	CMR
Naphthalene	ND	10	Z-01	ND	52	200	9/5/23	17:54	CMR
Propene	ND	400		ND	690	200	9/5/23	17:54	CMR
Styrene	ND	10		ND	43	200	9/5/23	17:54	CMR
1,1,2,2-Tetrachloroethane	ND	10		ND	69	200	9/5/23	17:54	CMR
Tetrachloroethylene	2700	10		18000	68	200	9/5/23	17:54	CMR
Tetrahydrofuran	ND	100		ND	290	200	9/5/23	17:54	CMR
Toluene	ND	10		ND	38	200	9/5/23	17:54	CMR
1,2,4-Trichlorobenzene	ND	10		ND	74	200	9/5/23	17:54	CMR
1,1,1-Trichloroethane	ND	10		ND	55	200	9/5/23	17:54	CMR
1,1,2-Trichloroethane	ND	10		ND	55	200	9/5/23	17:54	CMR
Trichloroethylene	69	10		370	54	200	9/5/23	17:54	CMR
Trichlorofluoromethane (Freon 11)	ND	40		ND	220	200	9/5/23	17:54	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	40		ND	310	200	9/5/23	17:54	CMR
1,2,4-Trimethylbenzene	ND	10		ND	49	200	9/5/23	17:54	CMR
1,3,5-Trimethylbenzene	ND	10		ND	49	200	9/5/23	17:54	CMR
Vinyl Acetate	ND	200		ND	700	200	9/5/23	17:54	CMR
Vinyl Chloride	ND	10		ND	26	200	9/5/23	17:54	CMR
m&p-Xylene	ND	20		ND	87	200	9/5/23	17:54	CMR
o-Xylene	ND	10		ND	43	200	9/5/23	17:54	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.1	70-130	9/5/23 17:54

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ANALYTICAL RESULTS

 Project Location: 110 Cottermill Rd, Greatnec, NY
 Date Received: 8/31/2023
Field Sample #: SVE-EFF
Sample ID: 2310065-02
 Sample Matrix: Soil Gas
 Sampled: 8/29/2023 06:59

 Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 2310065
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	8.7	8.0		21	19	4	9/5/23	17:27	CMR
Benzene	0.28	0.20		0.91	0.64	4	9/5/23	17:27	CMR
Benzyl chloride	ND	0.80		ND	4.1	4	9/5/23	17:27	CMR
Bromodichloromethane	ND	0.20		ND	1.3	4	9/5/23	17:27	CMR
Bromoform	ND	0.20		ND	2.1	4	9/5/23	17:27	CMR
Bromomethane	ND	0.20		ND	0.78	4	9/5/23	17:27	CMR
1,3-Butadiene	ND	0.20		ND	0.44	4	9/5/23	17:27	CMR
2-Butanone (MEK)	ND	8.0		ND	24	4	9/5/23	17:27	CMR
Carbon Disulfide	ND	2.0		ND	6.2	4	9/5/23	17:27	CMR
Carbon Tetrachloride	ND	0.20		ND	1.3	4	9/5/23	17:27	CMR
Chlorobenzene	ND	0.20		ND	0.92	4	9/5/23	17:27	CMR
Chloroethane	ND	0.20		ND	0.53	4	9/5/23	17:27	CMR
Chloroform	ND	0.20		ND	0.98	4	9/5/23	17:27	CMR
Chloromethane	ND	0.40		ND	0.83	4	9/5/23	17:27	CMR
Cyclohexane	1.0	0.20		3.5	0.69	4	9/5/23	17:27	CMR
Dibromochloromethane	ND	0.20		ND	1.7	4	9/5/23	17:27	CMR
1,2-Dibromoethane (EDB)	ND	0.20		ND	1.5	4	9/5/23	17:27	CMR
1,2-Dichlorobenzene	ND	0.20		ND	1.2	4	9/5/23	17:27	CMR
1,3-Dichlorobenzene	ND	0.20		ND	1.2	4	9/5/23	17:27	CMR
1,4-Dichlorobenzene	ND	0.20		ND	1.2	4	9/5/23	17:27	CMR
Dichlorodifluoromethane (Freon 12)	0.56	0.20	V-06	2.8	0.99	4	9/5/23	17:27	CMR
1,1-Dichloroethane	ND	0.20		ND	0.81	4	9/5/23	17:27	CMR
1,2-Dichloroethane	ND	0.20		ND	0.81	4	9/5/23	17:27	CMR
1,1-Dichloroethylene	ND	0.20		ND	0.79	4	9/5/23	17:27	CMR
cis-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	9/5/23	17:27	CMR
trans-1,2-Dichloroethylene	ND	0.20		ND	0.79	4	9/5/23	17:27	CMR
1,2-Dichloropropane	0.54	0.20		2.5	0.92	4	9/5/23	17:27	CMR
cis-1,3-Dichloropropene	ND	0.20		ND	0.91	4	9/5/23	17:27	CMR
trans-1,3-Dichloropropene	ND	0.20		ND	0.91	4	9/5/23	17:27	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20		ND	1.4	4	9/5/23	17:27	CMR
1,4-Dioxane	ND	2.0		ND	7.2	4	9/5/23	17:27	CMR
Ethanol	82	8.0		160	15	4	9/5/23	17:27	CMR
Ethyl Acetate	ND	2.0		ND	7.2	4	9/5/23	17:27	CMR
Ethylbenzene	0.64	0.20		2.8	0.87	4	9/5/23	17:27	CMR
4-Ethyltoluene	0.25	0.20		1.2	0.98	4	9/5/23	17:27	CMR
Heptane	0.22	0.20		0.92	0.82	4	9/5/23	17:27	CMR
Hexachlorobutadiene	ND	0.20		ND	2.1	4	9/5/23	17:27	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

 Project Location: 110 Cottermill Rd, Greatnec, NY
 Date Received: 8/31/2023
Field Sample #: SVE-EFF
Sample ID: 2310065-02
 Sample Matrix: Soil Gas
 Sampled: 8/29/2023 06:59

 Sample Description/Location:
 Sub Description/Location:
 Canister ID:
 Canister Size:
 Flow Controller ID:
 Sample Type:

Work Order: 2310065
 Initial Vacuum(in Hg):
 Final Vacuum(in Hg):
 Receipt Vacuum(in Hg):
 Flow Controller Type:
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: A-09

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analized		
Hexane	ND	8.0		ND	28	4	9/5/23	17:27	CMR
2-Hexanone (MBK)	ND	0.80		ND	3.3	4	9/5/23	17:27	CMR
Isopropanol	9.5	8.0		23	20	4	9/5/23	17:27	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	9/5/23	17:27	CMR
Methylene Chloride	ND	2.0		ND	6.9	4	9/5/23	17:27	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20		ND	0.82	4	9/5/23	17:27	CMR
Naphthalene	ND	0.20	Z-01	ND	1.0	4	9/5/23	17:27	CMR
Propene	ND	8.0		ND	14	4	9/5/23	17:27	CMR
Styrene	0.22	0.20		0.95	0.85	4	9/5/23	17:27	CMR
1,1,2,2-Tetrachloroethane	ND	0.20		ND	1.4	4	9/5/23	17:27	CMR
Tetrachloroethylene	1.4	0.20		9.2	1.4	4	9/5/23	17:27	CMR
Tetrahydrofuran	ND	2.0		ND	5.9	4	9/5/23	17:27	CMR
Toluene	2.2	0.20		8.2	0.75	4	9/5/23	17:27	CMR
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	4	9/5/23	17:27	CMR
1,1,1-Trichloroethane	ND	0.20		ND	1.1	4	9/5/23	17:27	CMR
1,1,2-Trichloroethane	ND	0.20		ND	1.1	4	9/5/23	17:27	CMR
Trichloroethylene	ND	0.20		ND	1.1	4	9/5/23	17:27	CMR
Trichlorofluoromethane (Freon 11)	ND	0.80		ND	4.5	4	9/5/23	17:27	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80		ND	6.1	4	9/5/23	17:27	CMR
1,2,4-Trimethylbenzene	1.4	0.20		7.1	0.98	4	9/5/23	17:27	CMR
1,3,5-Trimethylbenzene	0.31	0.20	V-06	1.5	0.98	4	9/5/23	17:27	CMR
Vinyl Acetate	ND	4.0		ND	14	4	9/5/23	17:27	CMR
Vinyl Chloride	ND	0.20		ND	0.51	4	9/5/23	17:27	CMR
m&p-Xylene	2.4	0.40		10	1.7	4	9/5/23	17:27	CMR
o-Xylene	1.1	0.20		4.8	0.87	4	9/5/23	17:27	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.7	70-130	9/5/23 17:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data
Prep Method:TO-15 Prep
Analytical Method:EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
2310065-01 [SVE-INF]	B351335	1	200	5	1000	200	200	09/05/23
2310065-02 [SVE-EFF]	B351335	1	1	N/A	1000	200	50	09/05/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B351335 - TO-15 Prep											
Blank (B351335-BLK1)						Prepared & Analyzed: 09/05/23					
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.080									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.080									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									
Propene	ND	0.80									
Styrene	ND	0.020									

Z-01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
Batch B351335 - TO-15 Prep											
Blank (B351335-BLK1)						Prepared & Analyzed: 09/05/23					
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.66</i>				<i>8.00</i>		<i>95.8</i>	<i>70-130</i>			
LCS (B351335-BS1)						Prepared & Analyzed: 09/05/23					
Acetone	4.69				5.00		93.8	70-130			
Benzene	4.56				5.00		91.2	70-130			
Benzyl chloride	5.11				5.00		102	70-130			
Bromodichloromethane	4.74				5.00		94.7	70-130			
Bromoform	5.66				5.00		113	70-130			
Bromomethane	5.72				5.00		114	70-130			
1,3-Butadiene	5.82				5.00		116	70-130			
2-Butanone (MEK)	5.00				5.00		100	70-130			
Carbon Disulfide	5.59				5.00		112	70-130			
Carbon Tetrachloride	5.08				5.00		102	70-130			
Chlorobenzene	4.98				5.00		99.5	70-130			
Chloroethane	5.64				5.00		113	70-130			
Chloroform	5.62				5.00		112	70-130			
Chloromethane	5.28				5.00		106	70-130			
Cyclohexane	4.77				5.00		95.4	70-130			
Dibromochloromethane	5.86				5.00		117	70-130			
1,2-Dibromoethane (EDB)	5.24				5.00		105	70-130			
1,2-Dichlorobenzene	5.71				5.00		114	70-130			
1,3-Dichlorobenzene	5.72				5.00		114	70-130			V-06
1,4-Dichlorobenzene	5.08				5.00		102	70-130			
Dichlorodifluoromethane (Freon 12)	6.11				5.00		122	70-130			V-06
1,1-Dichloroethane	5.52				5.00		110	70-130			
1,2-Dichloroethane	5.17				5.00		103	70-130			
1,1-Dichloroethylene	5.30				5.00		106	70-130			
cis-1,2-Dichloroethylene	5.24				5.00		105	70-130			
trans-1,2-Dichloroethylene	5.58				5.00		112	70-130			
1,2-Dichloropropane	4.57				5.00		91.5	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
Batch B351335 - TO-15 Prep											
LCS (B351335-BS1)											
Prepared & Analyzed: 09/05/23											
cis-1,3-Dichloropropene	4.93				5.00		98.6	70-130			
trans-1,3-Dichloropropene	5.53				5.00		111	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.25				5.00		105	70-130			
1,4-Dioxane	4.60				5.00		91.9	70-130			
Ethanol	5.78				5.00		116	70-130			
Ethyl Acetate	4.87				5.00		97.4	70-130			
Ethylbenzene	4.83				5.00		96.6	70-130			
4-Ethyltoluene	5.26				5.00		105	70-130			
Heptane	4.97				5.00		99.3	70-130			
Hexachlorobutadiene	7.97				4.25		188 *	70-130			L-01, V-20
Hexane	4.92				5.00		98.4	70-130			
2-Hexanone (MBK)	4.26				5.00		85.3	70-130			
Isopropanol	4.14				5.00		82.9	70-130			
Methyl tert-Butyl Ether (MTBE)	5.60				5.00		112	70-130			
Methylene Chloride	4.38				5.00		87.6	70-130			
4-Methyl-2-pentanone (MIBK)	5.10				5.00		102	70-130			
Naphthalene	5.89				3.68		160 *	70-130			L-01, V-20, Z-01, V-06
Propene	6.29				5.00		126	70-130			
Styrene	5.26				5.00		105	70-130			
1,1,2,2-Tetrachloroethane	4.93				5.00		98.7	70-130			
Tetrachloroethylene	5.01				5.00		100	70-130			
Tetrahydrofuran	5.18				5.00		104	70-130			
Toluene	5.02				5.00		100	70-130			
1,2,4-Trichlorobenzene	5.75				3.90		148 *	70-130			L-01, V-20
1,1,1-Trichloroethane	4.97				5.00		99.3	70-130			
1,1,2-Trichloroethane	5.22				5.00		104	70-130			
Trichloroethylene	5.06				5.00		101	70-130			
Trichlorofluoromethane (Freon 11)	5.99				5.00		120	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.60				5.00		112	70-130			
1,2,4-Trimethylbenzene	5.68				5.00		114	70-130			
1,3,5-Trimethylbenzene	5.96				5.00		119	70-130			V-06
Vinyl Acetate	4.25				5.00		84.9	70-130			
Vinyl Chloride	5.60				5.00		112	70-130			
m&p-Xylene	11.0				10.0		110	70-130			
o-Xylene	5.43				5.00		109	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	8.23				8.00		103	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Calibrations RSD for this compound is >30% but <40%.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S085380-ICV1)			Lab File ID: J23A090036.D			Analyzed: 04/01/23 05:53			
Bromochloromethane (1)	298104	2.788	289065	2.788	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	850179	3.418	804638	3.418	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	747035	5.036	717694	5.036	104	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S093091-CCV1)			Lab File ID: J23A248004.D			Analyzed: 09/05/23 11:39			
Bromochloromethane (1)	222835	2.804				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	703027	3.433				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	613691	5.039				60 - 140		+/-0.50	
LCS (B351335-BS1)			Lab File ID: J23A248005.D			Analyzed: 09/05/23 12:04			
Bromochloromethane (1)	218096	2.804	222835	2.804	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	692568	3.433	703027	3.433	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	601469	5.04	613691	5.039	98	60 - 140	0.0010	+/-0.50	
Blank (B351335-BLK1)			Lab File ID: J23A248008.D			Analyzed: 09/05/23 13:35			
Bromochloromethane (1)	203533	2.784	222835	2.804	91	60 - 140	-0.0200	+/-0.50	
1,4-Difluorobenzene (1)	556444	3.416	703027	3.433	79	60 - 140	-0.0170	+/-0.50	
Chlorobenzene-d5 (1)	505796	5.036	613691	5.039	82	60 - 140	-0.0030	+/-0.50	
SVE-EFF (2310065-02)			Lab File ID: J23A248017.D			Analyzed: 09/05/23 17:27			
Bromochloromethane (1)	214259	2.79	222835	2.804	96	60 - 140	-0.0140	+/-0.50	
1,4-Difluorobenzene (1)	747518	3.422	703027	3.433	106	60 - 140	-0.0110	+/-0.50	
Chlorobenzene-d5 (1)	702177	5.039	613691	5.039	114	60 - 140	0.0000	+/-0.50	
SVE-INF (2310065-01)			Lab File ID: J23A248018.D			Analyzed: 09/05/23 17:54			
Bromochloromethane (1)	210364	2.784	222835	2.804	94	60 - 140	-0.0200	+/-0.50	
1,4-Difluorobenzene (1)	649229	3.417	703027	3.433	92	60 - 140	-0.0160	+/-0.50	
Chlorobenzene-d5 (1)	621330	5.037	613691	5.039	101	60 - 140	-0.0020	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S093091-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.75	1.034114	0.9825889		-5.0	30
Benzene	A	5.00	4.89	0.8123645	0.7939155		-2.3	30
Benzyl chloride	L	5.00	5.39	0.5056852	0.8234867		7.9	30
Bromodichloromethane	A	5.00	5.19	0.6094342	0.6328724		3.8	30
Bromoform	A	5.00	6.14	0.4573839	0.561184		22.7	30
Bromomethane	A	5.00	6.18	0.6761959	0.8352727		23.5	30
1,3-Butadiene	A	5.00	6.16	0.5092257	0.6269177		23.1	30
2-Butanone (MEK)	A	5.00	5.13	1.148647	1.178336		2.6	30
Carbon Disulfide	A	5.00	5.76	2.001154	2.305412		15.2	30
Carbon Tetrachloride	A	5.00	5.96	0.5037067	0.5998973		19.1	30
Chlorobenzene	A	5.00	5.42	0.7622773	0.8271211		8.5	30
Chloroethane	A	5.00	6.05	0.4202137	0.5085808		21.0	30
Chloroform	A	5.00	6.01	1.577837	1.896607		20.2	30
Chloromethane	A	5.00	5.78	0.5966374	0.6891341		15.5	30
Cyclohexane	A	5.00	5.05	0.3246406	0.3277644		1.0	30
Dibromochloromethane	A	5.00	6.30	0.5189836	0.6538405		26.0	30
1,2-Dibromoethane (EDB)	A	5.00	5.77	0.4960864	0.5729007		15.5	30
1,2-Dichlorobenzene	A	5.00	6.34	0.4911951	0.6229845		26.8	30
1,3-Dichlorobenzene	A	5.00	6.64	0.5456808	0.7252119		32.9	30 *
1,4-Dichlorobenzene	A	5.00	6.27	0.5309926	0.6654085		25.3	30
Dichlorodifluoromethane (Freon 12)	A	5.00	6.56	1.809285	2.374141		31.2	30 *
1,1-Dichloroethane	A	5.00	5.82	1.317427	1.532061		16.3	30
1,2-Dichloroethane	A	5.00	5.43	0.9730911	1.05722		8.6	30
1,1-Dichloroethylene	A	5.00	5.68	1.146845	1.302438		13.6	30
cis-1,2-Dichloroethylene	A	5.00	5.62	0.9524103	1.070388		12.4	30
trans-1,2-Dichloroethylene	A	5.00	5.72	1.02979	1.177653		14.4	30
1,2-Dichloropropane	A	5.00	4.84	0.3033695	0.2936194		-3.2	30
cis-1,3-Dichloropropene	A	5.00	5.50	0.4042769	0.4450196		10.1	30
trans-1,3-Dichloropropene	A	5.00	5.93	0.3279415	0.3888374		18.6	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.93	1.964888	2.330916		18.6	30
1,4-Dioxane	A	5.00	4.81	0.1624784	0.1564321		-3.7	30
Ethanol	A	5.00	5.64	0.1724202	0.1945691		12.8	30
Ethyl Acetate	A	5.00	5.73	0.2040016	0.2338879		14.7	30
Ethylbenzene	A	5.00	5.27	1.293794	1.364447		5.5	30
4-Ethyltoluene	A	5.00	5.56	1.173601	1.305864		11.3	30
Heptane	A	5.00	5.27	0.2390228	0.2521439		5.5	30
Hexachlorobutadiene	A	5.00	9.10	0.2261563	0.4114331		81.9	30 *
Hexane	L	5.00	4.89	0.6738496	0.6621581		-2.2	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S093091-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.60	0.4320676	0.3976959		-8.0	30
Isopropanol	A	5.00	4.90	1.163166	1.140726		-1.9	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.71	1.752887	2.001876		14.2	30
Methylene Chloride	A	5.00	4.76	0.8161184	0.7768403		-4.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.45	0.1991676	0.2169203		8.9	30
Naphthalene	A	5.00	7.74	0.4140914	0.6406534		54.7	30 *
Propene	A	5.00	6.61	0.3783566	0.4999502		32.1	30 *
Styrene	A	5.00	5.94	0.6193387	0.7357214		18.8	30
1,1,2,2-Tetrachloroethane	A	5.00	5.58	0.7875453	0.8781618		11.5	30
Tetrachloroethylene	A	5.00	5.42	0.4061033	0.4398409		8.3	30
Tetrahydrofuran	A	5.00	5.11	0.5602263	0.5728508		2.3	30
Toluene	A	5.00	5.33	0.9952737	1.061287		6.6	30
1,2,4-Trichlorobenzene	A	5.00	6.67	0.1951236	0.2603447		33.4	30 *
1,1,1-Trichloroethane	A	5.00	5.51	0.5148362	0.567366		10.2	30
1,1,2-Trichloroethane	A	5.00	5.55	0.3494055	0.3876087		10.9	30
Trichloroethylene	A	5.00	5.22	0.3469588	0.362542		4.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	6.41	1.832227	2.348694		28.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	6.06	1.363757	1.654196		21.3	30
1,2,4-Trimethylbenzene	A	5.00	6.29	0.9035781	1.136517		25.8	30
1,3,5-Trimethylbenzene	A	5.00	6.59	0.9651619	1.271715		31.8	30 *
Vinyl Acetate	A	5.00	4.80	1.160867	1.115415		-3.9	30
Vinyl Chloride	A	5.00	6.04	0.7330867	0.8859434		20.9	30
m&p-Xylene	A	10.0	12.1	1.010218	1.220785		20.8	30
o-Xylene	A	5.00	5.97	0.9862305	1.177254		19.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

	DC#_ Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client HRP Associates
 Project NYS site #130072
 MCP/RCP Required _____
 Deliverable Package Requirement _____
 Location 110 Cottermill Rd, Great Neck, NY
 PWSID# (When Applicable) _____
 Arrival Method Courier
 Received By / Date / Time MEM 8/31/23 1710
 Back-Sheet By / Date / Time KNL 9/11/23 0950
 Temperature Method _____ # _____
 Temp $\leq 6^{\circ}\text{C}$ Actual Temperature _____
 Rush Samples: Yes / No _____ Notify _____
 Short Hold: Yes / No _____ Notify _____

Notes regarding Samples/COC outside of SOP:

Log In Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Received in Cooler	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Individually Certified Cans	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client	<input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/> Sampler Name <input checked="" type="checkbox"/>
Project	<input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/> Collection Date/Time <input checked="" type="checkbox"/>

Container	#	Size	Regulator	Duration	Accessories		
Summa Cans					Nut/Ferrule		IC Train
Tedlar Bags	2				Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/ TO-11					Tedlar	2	

Can #'s	5	10	15	Regs #'s	5	10	15
1	6	11	16	1	6	11	16
2	7	12	17	2	7	12	17
3	8	13	18	3	8	13	18
4	9	14	19	4	9	14	19
Unused Media	4	9	14	Pufs/TO-17's	5	10	15
1	5	10	15	1	6	11	16
2	6	11	16	2	7	12	17
3	7	12	17	3	8	13	18
4	8	13	18	4	9	14	19

APPENDIX D

Groundwater Level Measurements

**Stanton Cleaners Area Superfund Site
Water Level Data Summary**

Site: Stanton Cleaners Area Superfund Site

Date: 7/20/23

Location: 110 Cutter Mill Road, Great Neck, NY

Project #: DECI0030M

Field Personnel: DJA, KR

Well ID	Depth to Water (feet)	Time	Notes
EPA-MW-11D	60.67	7:05	no bolts
EPA-MW-21R	66.32	11:15	BHS, 1 bolt tab broken
EPA-MW-23	64.35	11:03	BHS
EPA-MW-26	59.22	10:27	no bolts, ponded water
EPA-MW-27	51.68	9:44	no bolts
EPA-MW-9A	64.07	7:23	
ST-MW-11	60.91	6:44	no bolts
ST-MW-12	71.69	8:33	no bolts
ST-MW-13	86.45	9:15	no bolts, 1 bolt tab broken
ST-MW-14	57.19	9:45	no bolts, 1 bolt tab broken, ponded water
ST-MW-15	73.56	9:30	no bolts
ST-MW-16	54.89	10:45	no bolts
ST-MW-17	71.13	8:22	no bolts
ST-MW-18	74.69	8:48	
ST-MW-19	65.98	7:47	no bolts
ST-MW-20	75.25	8:03	no bolts

Site Name: NYDEC Stanton Cleaners
 Address: 110 Cutter Mill Rd, Great Neck, NY
 Job #: DEC1003.OM T-4

On-Site: 6:40
 Off-Site: 12:34
 Purpose of Visit: GWM

Weather: P. Sunny, 72oF
 Date: 7/20/2023

Field Team: DJA, KG

Well ID	DTW (ft)	DTB (ft)	Time	From	Screen Length (ft)	PDB set Depth (feet)	Sample Time	Notes
EPA-MW-9a	64.07	103.00	7:23	2" pvc HW	20	93.00	7:44	
EPA-MW-11d	60.67	135.71	7:05	4" pvc HW	10	130.71	7:18	no bolts, Dupe = MW-100 (only 1 vial each as the others broke)
EPA-M-21r	66.32	86.38	11:15	2" pvc HW	10	81.38	11:24	1 bolt tab broken, bolt holes stripped
EPA-MW-23	64.35	95.45	11:03	2" pvc HW	10	90.45	11:12	bolt holes stripped - Lab QA/QC sample for VOC 624
EPA-MW-26	59.22	95.44	10:27	2" pvc HW	10	90.44	10:39	no bolts, ponded water
EPA-MW-27	51.68	127.15	9:44	2" pvc HW	10	122.15	9:55	no bolts
STA-MW-11	60.91	83.06	6:44	2" pvc HW	10	78.06	7:02	no bolts
STA-MW-12	71.69	86.00	8:33	2" pvc HW	15	78.50	8:44	no bolts
STA-MW-13	86.45	101.81	9:15	2" pvc HW	15	94.31	9:26	no bolts, Dupe = MW-101
STA-MW-14	57.19	200.00	9:45	2" pvc HW	15	192.50	10:20	1 bolt tab broken, no bolts, ponded water
STA-MW-15	73.56	86.58	9:30	2" pvc HW	10	81.58	9:39	no bolts
STA-MW-16	54.59	69.21	10:45	2" pvc HW	15	61.71	10:57	no bolts, bolt tabs broken, ponded water - Lab QA/QC sample for VOC 624
STA-MW-17	71.13	141.10	8:22	2" pvc HW	20	131.10	8:32	no bolts
STA-MW-18	74.69	203.00	8:48	2" pvc HW	20	193.00	9:09	
STA-MW-19	65.98	89.62	7:47	2" pvc HW	15	82.12	7:58	no bolts, ponded water
STA-MW-20	75.25	215.20	8:03	2" pvc HW	15	207.7	8:16	no bolts

trip blank = TB-1 sampled @ 7:00

Field Blank for PFSs = FB-1 @ 8:21 near EPA-MW-17

Equipment Blank (rope) for PFAs = EB-1 @ 8:18

PFAs collectewd with bailer (grab sample)

PFAs collected first from wells 11, 11d, 9a, 19, 20, 17 and 12. Then collected VOCs from PDB

PDB collected first from wells 18, 15, 13, 26, 16, 21r, 23, 27, and 14 because we ran out of rope and needed PDB tether to lower bailer to collect PFAs

APPENDIX E

Fire Safety Reports

Fire Safety Inspection Log
 Stanton Dry Cleaners Site
 NYSDEC Site No. 130072
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
		Yes	No
1	Exit signs internally or externally illuminated	Yes	No
2	Smoke alarms tested and functioning	Yes	No
3	Water leaks/water damage observed inside building	Yes	No
4	Fire extinguishers within expiration or inspected annually	Yes	No
5	All fire extinguishers present	Yes	No
6	Electrical Breaker Panel Issues	Yes	No
7	Covers present on all junction boxes, electrical switches, and outlets	Yes	No
8	Any evidence of pests present inside building (rodents, insects, etc.)	Yes	No
9	Emergency lighting tested and functioning	Yes	No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing	Annual	NONE	—
11	Battery powered emergency lighting tested	Annual	12/19/22	12/19/23
12	Fire Extinguishers annual inspection	Annual	5/25/23	5/25/24
13	Emergency Lighting Testing	Monthly	7/20/23	

Inspected By: *Keith Gandarillas*
 Inspection Date: *7/20/23*

Other Items Noted:

Fire Safety Inspection Log
 Stanton Dry Cleaners Site
 NYSDEC Site No. 130072
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
		1	Exit signs internally or externally illuminated
2	Smoke alarms tested and functioning	Yes	No
3	Water leaks/water damage observed inside building	Yes	No
4	Fire extinguishers within expiration or inspected annually	Yes	No
5	All fire extinguishers present	Yes	No
6	Electrical Breaker Panel Issues	Yes	No
7	Covers present on all junction boxes, electrical switches, and outlets	Yes	No
8	Any evidence of pests present inside building (rodents, insects, etc.)	Yes	No
9	Emergency lighting tested and functioning	Yes	No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last Performed	Date Due
10	Sprinkler system testing	Annual	NONE	
11	Battery powered emergency lighting tested	Annual	12-19-22	12-19-23
12	Fire Extinguishers annual inspection	Annual	5-25-23	5-25-24
13	Emergency Lighting Testing	Monthly	8-29-23	

Inspected By: *Dave Adam*

Inspection Date: *8-29-23*

Other Items Noted:

Fire Safety Inspection Log
 Stanton Dry Cleaners Site
 NYSDEC Site No. 130072
 110 Cutter Mill Road, Great Neck, NY

Monthly Fire Safety Inspection Items			
Item	Description	Result	
1	Exit signs internally or externally illuminated	<input checked="" type="radio"/> Yes	<input type="radio"/> No
2	Smoke alarms tested and functioning	<input checked="" type="radio"/> Yes	<input type="radio"/> No
3	Water leaks/water damage observed inside building	<input type="radio"/> Yes	<input checked="" type="radio"/> No
4	Fire extinguishers within expiration or inspected annually	<input checked="" type="radio"/> Yes	<input type="radio"/> No
5	All fire extinguishers present	<input checked="" type="radio"/> Yes	<input type="radio"/> No
6	Electrical Breaker Panel Issues	<input type="radio"/> Yes	<input checked="" type="radio"/> No
7	Covers present on all junction boxes, electrical switches, and outlets	<input checked="" type="radio"/> Yes	<input type="radio"/> No
8	Any evidence of pests present inside building (rodents, insects, etc.)	<input type="radio"/> Yes	<input checked="" type="radio"/> No
9	Emergency lighting tested and functioning	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Periodic System Testing and Inspection				
Item	Description	Frequency	Date Last	
			Performed	Date Due
10	Sprinkler system testing	Annual	N/A	-
11	Battery powered emergency lighting tested	Annual	12-19-22	12-19-23
12	Fire Extinguishers annual inspection	Annual	5-12-23	5-12-24
13	Emergency Lighting Testing	Monthly	9-28-23	

Inspected By: *9-28-23*
 Inspection Date: *DJA*

Other Items Noted: