

Groundwater Monitoring Report September 2024 Sampling Event

Former NOW Corporation Facility (Site No. 314008)

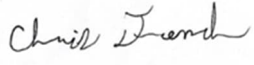
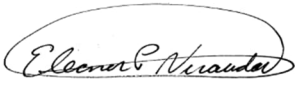
New York State Department of Environmental Conservation

Project number: 60631041

December 2025



Quality Information

Prepared by	Checked by	Reviewed by	Verified by
			
Ray Heller, EIT Environmental Engineer	Christopher French Geologist	Eleanor Vivaudou, P.E. Senior Engineer	Robert Montione Sr. Environmental Scientist

Approved by



Lindsay Mitchell, P.E.
Project Manager

Revision History

Revision	Revision date	Details	Authorized	Name	Position

Distribution List

# Hard Copies	PDF Required	Association / Company Name

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7012

Prepared by:

AECOM
40 British American Boulevard
Latham, NY 12110
aecom.com

Copyright © 2025 by AECOM

All rights reserved. No part of this copyrighted work may be reproduced, distributed, or transmitted in any form or by any means without the prior written permission of AECOM.

Table of Contents

1.	Introduction	1
1.1	Site Overview.....	1
1.2	Site History	2
1.3	Groundwater Flow	3
2.	September 2024 Groundwater Sampling Event	4
2.1	Sample Locations and Field Observations	4
2.2	Groundwater Sampling Methodology	4
2.3	Green and Sustainable Remediation.....	4
3.	Summary of Analytical Results	6
3.1	Volatile Organic Compounds	6
3.2	Emerging Contaminants	7
4.	Conclusions	10
5.	Planned Activities and Recommendations	11
6.	References.....	12

Figures

Figure 1	Site Location with Topography
Figure 2	Site Plan and Treatment System Details
Figure 3	Shallow Bedrock Well Groundwater Contour Map (September 2024)
Figure 4	Deep Bedrock Well Groundwater Contour Map (September 2024)
Figure 5	Groundwater Total VOC Concentrations (September 2024)
Figure 6	tVOC Concentrations in Shallow Wells
Figure 7	tVOC Concentrations in Deep Wells
Figure 8	Groundwater Perfluorooctanoic Acid Isoconcentration Contour Map (September 2024)
Figure 9	Groundwater Perfluorooctane Sulfonic Acid Concentrations (September 2024)
Figure 10	Groundwater 1,4-Dioxane Isoconcentration Contour Map (September 2024)

Tables

Table 1	Groundwater Levels
Table 2	Groundwater Analytical Data Summary
Table 3	Emerging Contaminant Sampling Results

Appendices

Appendix A	Low Flow Groundwater Purging/Sampling Logs
Appendix B	Green and Sustainable Remediation Best Management Practices
Appendix C	Laboratory Report and Data Usability Summary Report

Acronyms

AECOM	AECOM USA, Inc.
AWQS/GV	New York State Ambient Water Quality Standards and Guidance Values
bgs	below ground surface
BMPs	best management practices
CAMP	community air monitoring program
COC	contaminants of concern
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
DO	dissolved oxygen
DUSRs	data usability summary reports
EC	emerging contaminant
ES	Engineering-Science, Inc.
GAC	granular activated carbon
GWETS	groundwater extraction and treatment system
GPR	ground penetrating radar
HDPE	high-density polyethylene
mg/L	milligrams per liter
MTBE	methyl tert-butyl ether
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operation, monitoring and maintenance
ORP	oxidation-reduction potential
OU	Operable Unit
PFAS	per- and polyfluorinated alkyl substance
PFBA	Perfluorobutanoic acid
PFBS	Perfluorobutanesulfonic acid
PFDA	Perfluorodecanoic acid
PFHpA	Perfluoroheptanoic acid
PFHxA	Perfluorohexanoic acid
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid
PFOSA	Perfluorooctanesulfonamide
PFPeA	Perfluoropentanoic acid
POE	point-of-entry
RI/FS	Remedial Investigation and Feasibility Study
ROD	Record of Decision
SMP	Site Management Plan
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TOGS	Technical and Operational Guidance Series
tVOCs	total volatile organic compounds
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VE	vapor extraction
VOCs	volatile organic compounds

1. Introduction

AECOM USA, Inc. (AECOM) has prepared this Groundwater Monitoring Report for the New York State Department of Environmental Conservation (NYSDEC), associated with groundwater monitoring activities conducted in September 2024 on and in the vicinity of the Former NOW Corporation Facility in the Town of Clinton, Dutchess County, New York (Site). Operation, monitoring and maintenance (OM&M) of the groundwater extraction and treatment system (GWETS) was not performed, as the system was turned off by AECOM per a NYSDEC directive on November 30, 2020. Activities conducted between January 2024 and December 2024 consisted of:

<u>June 5, 2024:</u>	AECOM cleaned the siding and roof of the groundwater treatment building with a pressure washer to remove mold, mildew and moss, and cleaned out the gutters.
<u>August 6-12, 2024:</u>	AECOM removed pumps from the treatment wells and AECOM subcontractor Advanced Geological Services performed borehole geophysical surveys of accessible wells.
<u>August 20, 2024:</u>	AECOM subcontractor Enviroprobe Service, Inc. performed a ground penetrating radar (GPR) survey of the Site, and AECOM marked out proposed soil gas sampling locations.
<u>August 21-23, 2024:</u>	AECOM installed passive soil gas samplers surrounding the on-site building in accordance with the work plan. AECOM also surveyed the locations for all of the soil gas samples and collected community air monitoring plan (CAMP) data during these activities.
<u>September 4-5, 2024:</u>	AECOM collected the soil gas samplers and sealed all points throughout the Site with bentonite.
<u>September 10-12, 2024:</u>	AECOM gauged water levels in the monitoring well network and collected five-quarter groundwater samples for volatile organic compounds (VOCs) and emerging contaminants (ECs).
<u>September 23, 2024:</u>	AECOM collected strike and dip measurements from bedrock outcrops on and in the vicinity of the Site. Additionally, AECOM performed the annual site inspection.
<u>December 10, 2024:</u>	AECOM conducted a winterization maintenance check and performed housekeeping activities in and around the treatment building including inspecting the propane tank, which was out of fuel.

1.1 Site Overview

The Former NOW Corporation Facility (Site No. 314008) is located in the Town of Clinton, Dutchess County, New York. The Site is approximately 9 acres in size and is an active manufacturing facility. The Site location with topography is presented on **Figure 1**.

The Site is located in a broad northeast-trending valley, with bedrock outcrops exposed along the eastern portion of the valley. Depth to bedrock ranges from 0 to approximately 35 feet below ground surface (bgs). The bedrock consists of dark gray phyllite and metamorphosed dark gray sandstone of the Austin Glen Formation. Published geologic maps and reports indicate that the rocks in the area have undergone extensive folding and faulting. Where observed, the phyllite appeared highly fractured with generally closely spaced fractures along bedding and cleavage planes (Engineering-Science, Inc. [ES] Draft Final Remedial Investigation and Feasibility Study [RI/FS] Report, 1995).

Locally, the unconsolidated materials are variable in thickness and composition. In the southern portion of the Site, a relatively thin brown silt and clay unit (5 to 10 feet thick) overlies approximately 20 feet of fine to coarse sand and gravel. Throughout the central and northern portions of the Site, a brown silt unit overlies a dense, gray till of variable thickness of 0 to 14 feet (ES RI/FS, 1995). According to the Remedial Investigation, all unconsolidated materials were observed to be unsaturated.

Groundwater flow at the Site occurs under semi-confined conditions along zones of secondary porosity in the fractured bedrock aquifer. The natural direction of groundwater flow is generally from the relatively high elevations and hillsides in the eastern portion of the Site to the lower western portion. Pumping test data indicated that the groundwater flow direction is strongly influenced by the occurrence and orientation of the fractures in the bedrock, especially under pumping/drawdown conditions. Additional details regarding groundwater flow are provided in Section 1.3.

1.2 Site History

The Site was added to the NYSDEC Registry of Hazardous Waste Sites in December 1983 as a Class 2a site, due to allegations of on-site disposal of tank rinsing solutions. A Record of Decision (ROD) was issued in March 1995 for impacted groundwater, denoted as Operable Unit (OU) 1, and in March 1996 for impacted soil, denoted as OU 2.

Due to the contamination of the overburden and underlying bedrock aquifer with VOCs, the selected remedy consisted of: removal and on-site treatment of soil; installation of three groundwater/vapor recovery wells and a groundwater treatment system consisting of an air stripper, clarifier, sand filter and granular activated carbon (GAC) vessels, with most treated groundwater being discharged to Crum Elbow Creek, and the remaining groundwater being reinjected; two vapor extraction wells and a bedrock vapor extraction (VE) system consisting of a blower and GAC vessels; and implementation of site controls, including groundwater monitoring. The vapor recovery and groundwater re-infiltration systems were taken off-line circa 2005 and a replacement air stripper was installed in June 2012. Site features are provided on **Figure 2**.

Regular monitoring was conducted on the ground water extraction and treatment system (GWETS), including daily remote system monitoring, monthly compliance sampling, and annual groundwater sampling. Properties near the Site with groundwater wells with elevated VOC concentrations have been provided with bottled water or point-of-entry (POE) GAC treatment systems (**Figure 2**) in order to eliminate the potential for the ingestion of contaminants of concern (COCs) from impacted groundwater. Based on AECOM's review of the existing historical data and information, the GWETS at the Site partially functioned as designed. The treatment system performed its function limiting plume spread off-site. While the treatment system did remove significant contaminant mass, after 21 years of operation contamination concentrations in the groundwater recovery wells (most significantly TW-2A) remained high. These concentrations fluctuated between approximately 1 to 2 milligrams per liter (mg/L) with no clear trend of those concentrations decreasing. Over the twenty-one-year period of operation, the treatment system has removed approximately 1,227 pounds of total VOCs. The concentrations of VOCs have declined in recovery wells TW-1, TW-2A, and TW-3, with the greatest decline at TW-2A, where concentrations nevertheless remain in the vicinity of 1 mg/L. On November 30, 2020, the GWETS was shut down in accordance with a NYSDEC directive and has remained in that state.

At the Site, a groundwater well supplies untreated water to building tenants. The water is reportedly not consumed, but dermal contact occurs. A sample was collected in September 2016 and analyzed for VOCs. The groundwater analytical results were compared to the class GA groundwater standards or guidance values listed in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1, as amended, for protection of a source of drinking water (NYSDEC, 1998). The water exceeded the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQS/GV) of 5 micrograms per liter (µg/L) for several compounds, including 1,1-dichloroethane (1,1-DCA) with a concentration of 122 µg/L, cis-1,2-dichloroethene (cis-1,2-DCE) with a concentration of 77 µg/L, and trichloroethene (TCE) with a concentration of 32 µg/L.

POE carbon filters are maintained on three impacted downgradient homeowner wells; additionally, long-term monitoring of the groundwater monitoring well network continues to be performed at intervals required by the NYSDEC.

1.3 Groundwater Flow

Groundwater at the Site is primarily found in the fractured bedrock. The direction of groundwater flow is usually determined by assessing the elevation/head of the groundwater in monitoring wells. Typically, the groundwater elevation represents the head value found at the midpoint of the screened interval or open well interval. These groundwater elevations are plotted on a map, and a piezometric surface (similar to a topographic surface) is produced, with horizontal groundwater flow moving downslope perpendicular to the contours of the piezometric surface. However, the prediction of groundwater movement can be difficult due to seasonal fluctuations in groundwater and if the underlying aquifer system is complex. Additionally, while there is a single bedrock aquifer system, wells were drilled to different depths, and differences in the groundwater head values in well couplets indicate that there are vertical gradients that differ between the shallow and deep portions of the aquifer.

The total VOC (tVOC) impacts related to the Site have also been detected in the private potable water wells located to the north of the Site on South Creek Road. **Figure 1** is a topographic map taken from the NYSDEC Environmental Resource Mapper and shows these residences.

On **Figure 3**, the groundwater elevations in the shallow region of the bedrock aquifer are presented. The groundwater eventually moves to Crum Elbow Creek and there is evidence that a groundwater divide may exist on the Site. As such, a portion of the groundwater flow will move to the north, more consistent with the extent of contamination during non-pumping conditions of the GWETS.

Figure 4 provides an interpretation of the deeper bedrock aquifer flow. This interpretation suggests a predominant flow pattern towards the west with a groundwater divide also indicating some groundwater flow to the north. The groundwater divide in the deep aquifer is more pronounced than in the shallow aquifer.

These groundwater contour interpretations highlight the potential for several different flow patterns and point out potential data gaps that exist for the Site. Not all groundwater monitoring wells associated with the Site were gauged during the September 2024 monitoring event; furthermore, basic construction data (e.g., total depth and screened interval) is not available for several wells.

There are areas of the Site that do not currently have monitoring wells but could provide important groundwater flow and/or contaminant plume data (e.g., near the building and to the northeast, where the groundwater divide is most likely located). During further investigation activities, the need to fill these data gaps will be assessed.

2. September 2024 Groundwater Sampling Event

As part of the five-quarter groundwater monitoring event performed by AECOM, depth-to-groundwater measurements were recorded (**Table 1**) and groundwater samples were collected from September 10 to September 12, 2024. Refer to **Figure 2** for locations of monitoring wells and other site features.

2.1 Sample Locations and Field Observations

Groundwater monitoring, which includes measuring and recording groundwater elevation data and water quality parameters, has been conducted on a periodic basis for limited on-site and off-site wells in accordance with the Site Management Plan (SMP) (AECOM, 2014). In recent years, groundwater monitoring has been performed on a five-quarter basis as approved by the NYSDEC. Prior to sampling each well, depth-to-groundwater and depth-to-bottom measurements were taken using a water level indicator. The indicator was decontaminated with a Liquinox® and spring water rinse and sprayed with distilled water before each use. Depth-to-groundwater measurements were utilized to calculate groundwater elevations (**Table 1**) and to generate groundwater contour maps for the Site (**Figures 3 and 4**). Wells were visually inspected, and the overall conditions of the wells were acceptable. It is recommended that minor modifications (e.g., lock and J-Plug replacement) be completed during routine OM&M site visits when necessary.

2.2 Groundwater Sampling Methodology

Wells were purged with either a peristaltic pump or a bladder pump, dedicated high-density polyethylene (HDPE) tubing and dedicated silicone tubing using low-flow techniques until the field parameters stabilized. Water quality field parameters including temperature, conductivity, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, turbidity, color, and odor were measured and recorded on monitoring well purge logs. The monitoring well purging and sampling forms can be found in **Appendix A**.

In accordance with the SMP, seven monitoring wells, located on-site or off-site, were sampled for VOCs. A total of eighteen wells located on-site or off-site were sampled for ECs. PFAS samples were collected following the guidance “Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC’s Part 375 Remedial Programs” (NYSDEC, 2023). The field sampling team followed NYSDEC and AECOM emerging contaminant sampling protocols for the event.

All VOC samples were collected in laboratory-supplied bottles and shipped to Pace Analytical Laboratories for analysis of VOCs via United States Environmental Protection Agency (US EPA) Method 8260D. EC samples were submitted to the laboratory for 1,4-dioxane analysis via US EPA Method 8270E and for analysis of the 40-analyte per- and polyfluoroalkyl substances (PFAS) list via US EPA Method 1633. All samples were packed in coolers with ice and shipped under standard chain-of-custody procedures. EC and VOC samples were placed in separate coolers.

In accordance with Section 3.2.1 of the SMP (AECOM, 2014), purge water was discharged directly to the ground surface, except for purge water from MW-7D which was containerized for off-site disposal.

2.3 Green and Sustainable Remediation

Per DER-31 policy, NYSDEC and AECOM implement best management practices (BMPs) in current site-related tasks, including five-quarter groundwater monitoring and waste management. BMPs related to these sampling activities include but are not limited to: a) reduction of waste generation such as purge water quantities and municipal waste; b) limited idling of vehicles to the extent practicable; and c) use of local sources of laboratory bottles/sample collection vessels, rental equipment and supplies rather than air or ground shipment of these materials when possible. BMPs provided by the US EPA which are currently relevant to the scope of work for the project Site are included in **Appendix B**. NYSDEC and AECOM will continue to improve upon site-related processes in the interest of green and sustainable

remediation where feasible. Implementation of BMPs relevant to future scopes of work at the Site will be discussed in those work plans and reports as required.

3. Summary of Analytical Results

The September 2024 analytical results from seven wells (MW-1, MW-4S, MW-6S, MW-6D, MW-7S, MW-7D, and MW-12D) sampled for VOCs are presented in **Table 2**, along with historical site-wide groundwater results for VOCs. During that field mobilization, emerging contaminant samples (for analysis of PFAS and 1,4-dioxane) were collected from eighteen wells. These results are provided in **Table 3** and in the data usability summary report (DUSR) in **Appendix C**. The laboratory report is also provided in **Appendix C**.

3.1 Volatile Organic Compounds

Six of the seven wells sampled for VOCs (MW-1, MW-6S, MW-6D, MW-7S, MW-7D and MW-12D) exhibited one or more compound at levels exceeding the New York State class GA groundwater standards or guidance values (AWQS/GV). VOCs were detected at concentrations less than the AWQS/GV in MW-4S. All wells sampled for VOCs contained low levels of acetone, a laboratory contaminant, at Pace Analytical Laboratories. Refer to **Table 2** for current and historical VOC sampling results in groundwater.

Figure 5 presents the concentrations of the main site-related contaminants of concern (COCs). **Figure 6** and **Figure 7** display the trend in tVOC concentrations over time in shallow and deep wells, respectively. The main contaminant in four of the wells in the central part of the Site continues to be elevated concentrations of TCE or its breakdown products 1,1-dichloroethene (1,1-DCE) and cis-1,2-DCE. Other wells at the edge of the Site have lower concentrations (less than 10 µg/L) of 1,1,1-trichloroethane (1,1,1-TCA) and its breakdown products 1,1-DCA and chloroethane. Note that, while the implied direction of groundwater flow is due west towards Crum Elbow Creek, the concentration map indicates groundwater flow to the north.

Monitoring wells MW-7D and MW-7S had the highest TCE and tVOC concentrations at the Site during the September 2024 sampling event, with 180 µg/L of TCE (214 µg/L tVOC) and 170 µg/L of TCE (185 µg/L tVOC), respectively.

Since April 1993, tVOC concentrations at MW-1 have ranged from 87.8 µg/L (May 2014) to 446 µg/L (January 1994). tVOC concentrations increased slightly from 123 µg/L in July 2023 to 143 µg/L in September 2024.

tVOC concentrations in MW-4S have remained steady and relatively low since April 1993, with no compounds exceeding the AWQS/GV. tVOC concentrations in this well increased slightly from 1.20 µg/L in July 2023 to 1.40 µg/L in September 2024.

The groundwater sample collected from MW-6S exhibited a slight increase in tVOC concentration between July 2023 (60.5 µg/L) and September 2024 (98.0 µg/L). Overall, tVOC concentrations in MW-6S have fluctuated but have generally decreased significantly since 1993 (1,410 µg/L).

With the exception of its first sample results in January 1994 (313 µg/L), MW-6D has contained stable tVOC concentrations, varying between 6.16 µg/L (July 2023) and 58.0 µg/L (August 1999). From the previous sampling event in July 2023 to the most recent in September 2024, the tVOC concentrations in MW-6D increased from 6.16 µg/L to 20.6 µg/L. This well has also contained trace concentrations of methyl tert-butyl ether (MTBE) since 2020.

tVOCs in MW-7S increased from 139 µg/L in July 2023 to 185 µg/L in September 2024. Since May 1998, tVOC concentrations in the well have ranged from 53.8 µg/L (April 2013) to 342 µg/L (May 1998).

In MW-7D, tVOCs increased slightly from 156 µg/L in July 2023 to 214 µg/L in September 2024. Concentrations have varied somewhat since 1998, ranging from 104 µg/L (May 2014) to 493 µg/L (August 2000).

MW-12D, first sampled in 2008, has contained tVOC concentrations ranging from 3.11 µg/L (July 2023) to 33.7 µg/L (May 2008). The tVOC concentration increased between the July 2023 groundwater monitoring event (3.11 µg/L) and the September 2024 event (14.2 µg/L).

3.2 Emerging Contaminants

PFAS compounds, specifically perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), have been detected at concentrations exceeding the NYSDEC AWQS/GV presented in NYSDEC PFAS guidance to be protective of human health (NYSDEC, 2023). In September 2024, thirteen of the eighteen wells sampled for PFAS (MW-1, MW-3D, MW-3S, MW-4S, MW-6D, MW-6S, MW-7D, MW-7S, MW-9, MW-10, MW-12D, MW-12S and OW-6) were reported to contain perfluorooctanoic acid (PFOA) and/or perfluorooctane sulfonic acid (PFOS) in exceedance of the AWQS/GV. Additionally, ten of the eighteen sampled wells (MW-1, MW-4D, MW-4S, MW-5, MW-6D, MW-6S, MW-7D, MW-7S, MW-8, and MW-12D) exceeded the AWQS/GV for 1,4-dioxane. The September 2024 EC sampling results are provided in **Table 3**. **Figure 8**, **Figure 9**, and **Figure 10** present concentrations of PFOA, PFOS, and 1,4-dioxane, respectively, in on-site and off-site groundwater.

Note that the wells with the highest concentrations of PFAS (which also coincide with those with the highest concentrations of chlorinated VOCs) such as MW-7S and MW-7D have a high ratio of PFOA to PFOS (e.g., MW-7S contained 260 nanograms per liter (ng/L) of PFOA and 1.3 ng/L of PFOS in September 2024). This may be indicative of source-related contamination. In contrast, some wells around the outside of the Site (e.g., MW-10) have a more balanced ratio (MW-10 contained 8 ng/L of PFOA to 3.2 ng/L of PFOS).

MW-1 contained a PFOA concentration of 160 ng/L, which is above the AWQS/GV of 6.7 ng/L for the compound. Nine other PFAS (PFOS, perfluorobutanoic acid [PFBA], perfluoropentanoic acid [PFPeA], perfluorohexanoic acid [PFHxA], perfluoroheptanoic acid [PFHpA], perfluorononanoic acid [PFNA], perfluorodecanoic acid [PFDA], perfluorobutanesulfonic acid [PFBS] and perfluorohexanesulfonic acid [PFHxS]) were also detected in the sample. 1,4-Dioxane exceeded the AWQS/GV of 0.35 µg/L with a concentration of 4.3 µg/L. When MW-1 was sampled for ECs in July 2023, PFOA was slightly lower when compared to the September 2024 sample with a concentration of 130 ng/L. Eight other PFAS were detected in July 2023, including PFOS (1.1 ng/L). 1,4-Dioxane was detected at a concentration of 3.9 µg/L in the July 2023 sample.

No PFAS were detected in MW-2 during the July 2023 or September 2024 groundwater monitoring events. Five PFAS were detected in MW-2 in March 2022 including PFOA and PFOS, none of which exceeded the AWQS/GV. 1,4-Dioxane was not detected in MW-2 in December 2020, March 2022, July 2023 or September 2024.

MW-3D contained 21 ng/L of PFOA in the September 2024 groundwater sample, which is above the AWQS/GV of 6.7 ng/L for the compound. In July 2023, PFOA was detected at a concentration of 23 ng/L. Four other PFAS (PFPeA, PFHxA, PFHpA and PFBS) were detected during the September 2024 sampling event. The concentration of 1,4-dioxane in MW-3D was 0.19 µg/L in September 2024, which does not exceed the AWQS/GV for the compound; this is a slight decrease from 0.32 µg/L in July 2023.

MW-3S also contained PFOA exceeding the AWQS/GV with a concentration of 15 ng/L in September 2024, a decrease in concentration from July 2023 (32 ng/L). Three other PFAS (PFHxA, PFHpA, and PFBS) were detected during the sampling event. 1,4-Dioxane detected in this well during this monitoring event for the first time with a concentration of 0.074 µg/L.

PFOA (0.48 J ng/L) was detected in MW-4D in September 2024, below its AWQS/GV. Additionally, two other PFAS (PFHxA and perfluorooctanesulfonamide [PFOSA]) were detected in MW-4D during the September 2024 groundwater monitoring event. The 1,4-dioxane concentration (5.2 µg/L) exceeded the AWQS/GV for the compound and is an increase in concentration from the July 2023 sampling event (1.7 µg/L).

MW-4S contained PFOA exceeding the AWQS/GV in September 2024, with a concentration of 38 ng/L. Five other PFAS (PFBA, PFPeA, PFHxA, PFHpA, and PFBS) were also detected in the sample. 1,4-Dioxane exceeded the AWQS/GV in MW-4S, with a concentration of 9.7 µg/L for the compound.

The MW-5 sample did not contain a detection of either PFOA or PFOS in September 2024. One other PFAS (PFNA) was detected in MW-5 during the September 2024 sampling event. However, 1,4-dioxane exceeded the AWQS/GV with a concentration of 4.0 µg/L in September 2024, which was a slight increase from July 2023 (2.5 µg/L).

MW-6D contained PFOA in groundwater at a concentration of 44 ng/L in September 2024, which is above the AWQS/GV for the compound, and 0.68 ng/L of PFOS, which is below the AWQS/GV of 2.7 ng/L. The groundwater sample from MW-6D also contained seven other PFAS (PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFBS and PFHxS). Additionally, MW-6D contained 1,4-dioxane exceeding the AWQS/GV with a concentration of 21 µg/L. MW-6D contained higher concentrations of PFOS and 1,4-dioxane in July 2023.

PFOA (84.0 ng/L), PFOS (3.50 ng/L) and 1,4-dioxane (2.2 µg/L) concentrations exceeded their respective AWQS/GV in MW-6S in September 2024. PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFDA, PFBS and PFHxS were also found in the sample at low levels. In July 2023, MW-6S contained a lower concentration of PFOA (57.0 ng/L), as well as concentrations of PFOS, PFBA, PFHpA, PFNA, PFDA, PFBS, PFHxS, and 1,4-dioxane.

The sample collected from MW-7D contained PFOA and 1,4-dioxane in excess of the AWQS/GV in September 2024, with concentrations of 270 ng/L and 2.5 µg/L, respectively. Additionally, PFOS, PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFDA, PFBS, and PFHxS were detected in the sample. In July 2023, MW-7D contained a slightly lower concentration of PFOA (250 ng/L) as well as lower concentrations of PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFDA and PFBS. MW-7D contained similar concentrations of 1,4-dioxane in September 2024 (2.50 µg/L) compared to July 2023 (2.7 µg/L).

MW-7S contained a PFOA concentration of 260 ng/L in the September 2024 groundwater sample and a 1,4-dioxane concentration of 0.51 µg/L, which are above the AWQS/GV for each compound. Additionally, PFOS, PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFDA, PFBS and PFHxS were detected in MW-7S.

In September 2024, MW-8 contained 1.20 ng/L of PFOA (below the AWQS/GV); however, it also contained 4.20 µg/L of 1,4-dioxane, which exceeds the guidance value for the compound. In July 2023, slightly higher concentrations of these compounds were detected in the groundwater sample. Additionally, PFHxA was detected in MW-8 during the September 2024 sampling event.

MW-9 contained PFOA at a concentration of 15 ng/L (above the AWQS/GV of 6.7 ng/L) in September 2024, in comparison to 6.5 ng/L in July 2023. The MW-9 sample contained PFOS and PFHpA detections in March 2022, July 2023 and September 2024; these compounds were not detected in December 2020. MW-9 also had detections of PFBA, PFPeA, PFHxA, PFNA, PFBS, and PFHxS in September 2024. 1,4-Dioxane was detected during the September 2024 groundwater monitoring event with a concentration of 0.07 µg/L. 1,4-Dioxane was not detected in any of the three previous events.

The groundwater sample collected from MW-10 in September 2024 contained PFOA and PFOS at concentrations of 8.0 ng/L and 3.2 ng/L, respectively, which is above their respective AWQS/GV. PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFBS and PFHxS were also detected in the sample. Comparatively, the MW-10 sample collected in July 2023 contained 8.1 ng/L of PFOA and 1.9 ng/L of PFOS. 1,4-Dioxane was detected during this sampling event with a concentration of 0.05 µg/L. 1,4-Dioxane was not detected in any of the three previous events.

At monitoring well MW-11, PFOA and PFOS were not detected in December 2020, March 2022, July 2023, or September 2024. However, the sample did contain 0.19 µg/L of 1,4-dioxane in September 2024, which did not exceed the AWQS/GV for the compound. A slightly higher concentration (0.43 µg/L) was detected in July 2023.

MW-12D contained PFOA at a concentration of 15 ng/L in September 2024, which is above the AWQS/GV for the compound. PFOS was detected below the AWQS/GV at 0.99 ng/L. PFPeA, PFHxA, PFHpA, PFBS, and PFHxS were also detected. 1,4-Dioxane was detected in the sample at a concentration of 4.0 µg/L, which is above the AWQS/GV. In July 2023, the EC samples collected from MW-12D contained lower concentrations of most compounds than in September 2024, including PFOA (9.7 ng/L).

When analyzed for ECs, MW-12S contained PFOA with a concentration of 8.5 ng/L in September 2024, which exceeds the AWQS/GV. MW-12S also contained PFOS (1.2 ng/L), PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFBS, PFHxS and PFOSA. 1,4-Dioxane was not detected in the groundwater sample.

Finally, well OW-6 contained a PFOA concentration of 60 ng/L in September 2024, which is above the AWQS/GV for the compound. PFOS, PFBA, PFPeA, PFHxA, PFHpA, PFNA, PFBS and PFHxS were also detected in the sample. 1,4-dioxane was not detected in this well during the September 2024 sampling event or during the three previous events. PFOA was detected at a much higher concentration in OW-6 in September 2024 (60 ng/L) than July 2023 (7.8 ng/L).

4. Conclusions

VOC concentrations in several monitoring wells within or near the previously defined radius of influence of the GWETS appear to have been affected by the shutdown of the system on November 30, 2020.

Concentrations of VOCs, particularly TCE, increased notably in MW-7D, MW-7S, and MW-6S between May 2019 and December 2020, and in September 2024 generally remained above long-term pre-system shutdown concentrations. Wells that were furthest away from the GWETS did not appear to be affected by the system shutdown.

Chlorinated VOCs in groundwater remain above the NYSDEC Ambient Water Quality Standards and Guidance Values, in some locations by orders of magnitude. Without the groundwater extraction system operating, impacts may migrate off-site. AECOM, under the direction of the NYSDEC, is conducting a supplemental remedial investigation program in an effort to locate previously unknown source areas on the Site. Additional remedial measures to reduce or eliminate groundwater impacts across the Site will be determined.

Concentrations of PFAS in on-site groundwater in September 2024 primarily consisted of PFOA, which exceeded the AWQS/GV in thirteen of the eighteen wells sampled. PFOS was also detected above its guidance value in two wells. Concentrations of 1,4-dioxane exceeded the AWQS/GV in ten of the eighteen sampled wells. The wells exceeding the emerging contaminant guidance values are located on-site and off-site. Potential PFAS sources have not been identified at this time; however, 1,4-dioxane is often associated with 1,1,1-TCA impacts.

5. Planned Activities and Recommendations

Groundwater monitoring should continue on a five-quarter basis (i.e., every 15 months) in order to document the concentrations of VOCs and emerging contaminants in the groundwater at the Site.

Private potable wells on South Creek Road should continue to be monitored for VOCs and/or ECs as prescribed by the NYSDEC.

Minor repairs or modifications to the monitoring well network will be addressed during routine OM&M site visits as necessary.

A supplemental remedial investigation report will be submitted in December 2025.

6. References

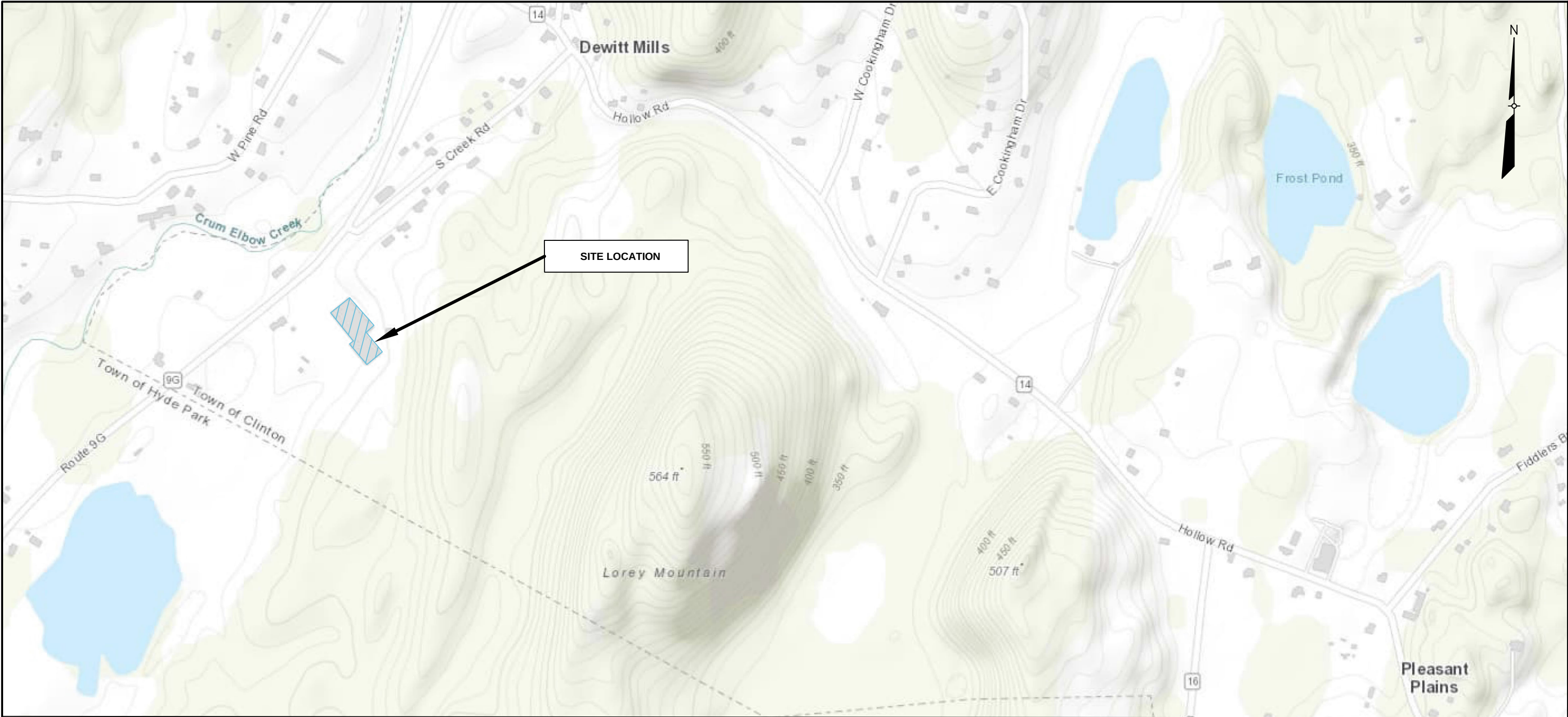
AECOM Technical Services Northeast, Inc., 2014. Site Management Plan, Former NOW Corporation Facility, NYSDEC Site No. 3-14-008, Clinton, Dutchess County, New York. March 2014.

Engineering-Science, Inc., 1995. Remedial Investigation/Feasibility Study Report, NOW Corporation Site, Town of Clinton, Dutchess County. January 1995.

NYSDEC, 1998. Technical & Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. Errata, January 1999; Addenda, April 2000; Addenda, June 2004a; Addenda, February 2023.

NYSDEC, 2023. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs. April 2023.

Figures



LEGEND:



NOW CORPORATION SITE - MAIN BUILDING LOCATION

NOTES:

MAP IS NOT TO SCALE

REFERENCED FROM NYSDEC ENVIRONMENTAL RESOURCE
MAPPER 2024

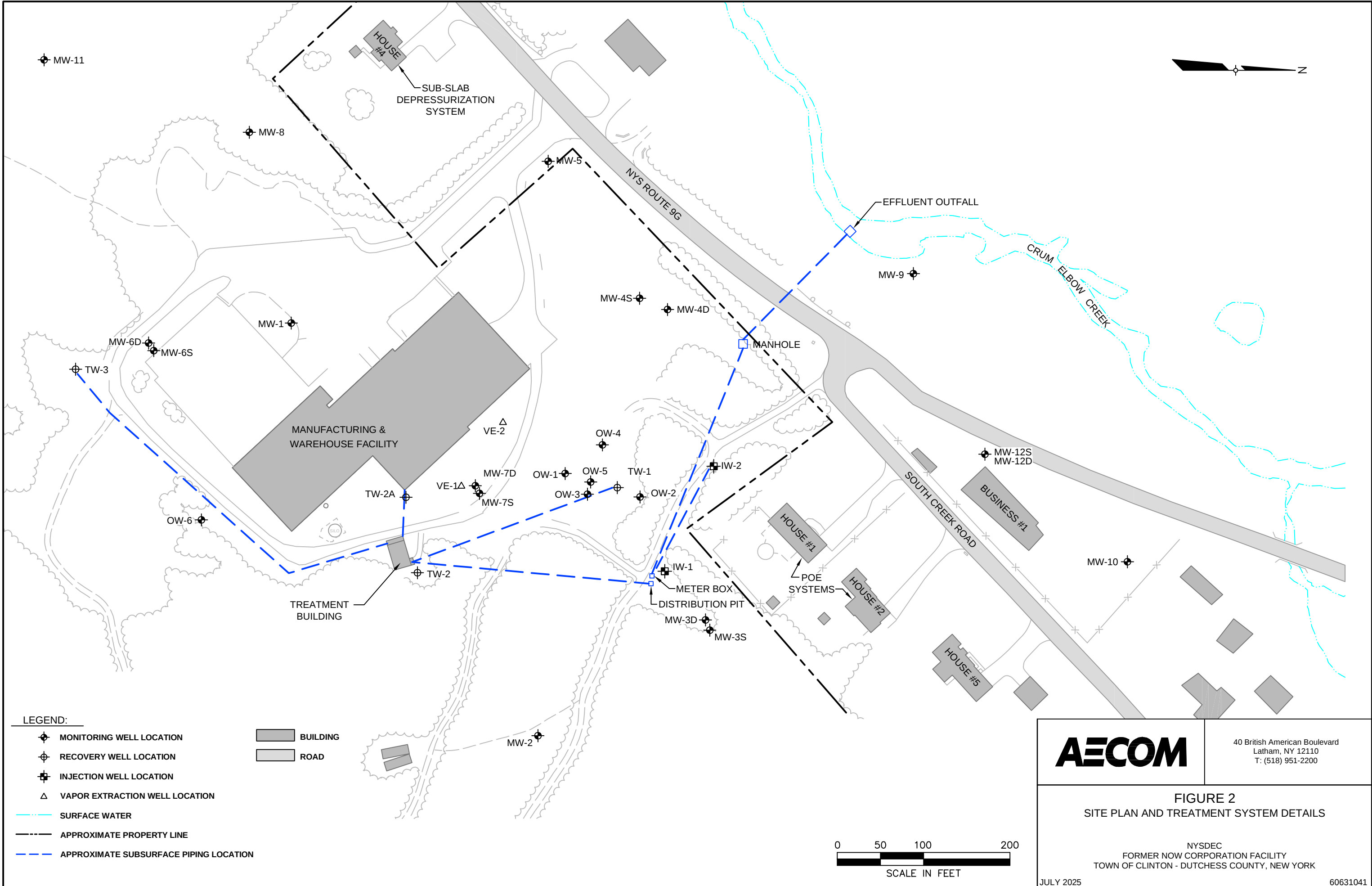
AECOM

40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200

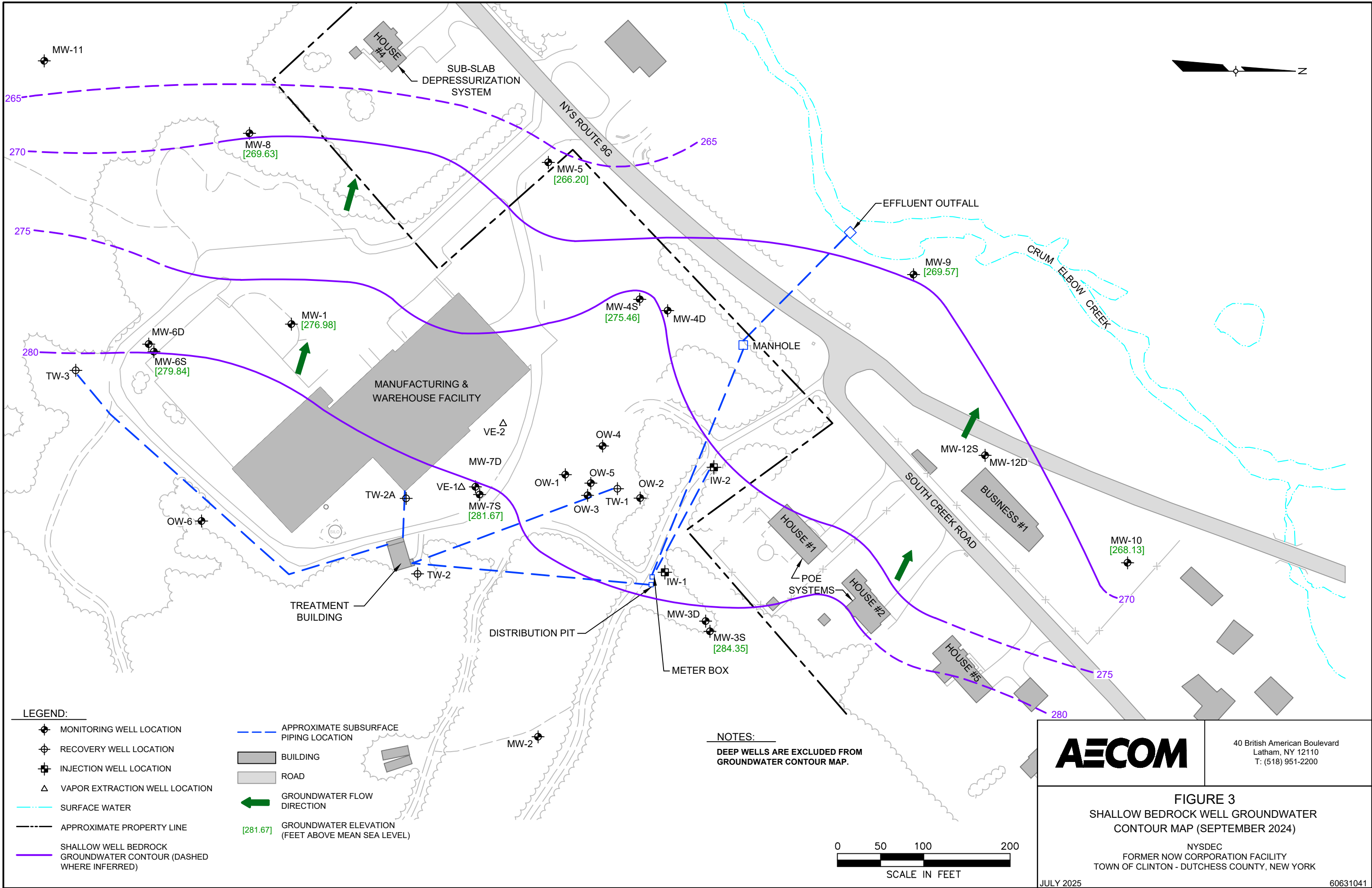
FIGURE 1
SITE LOCATION WITH TOPOGRAPHY

NYSDEC
FORMER NOW CORPORATION FACILITY
TOWN OF CLINTON - DUTCHESS COUNTY, NEW YORK

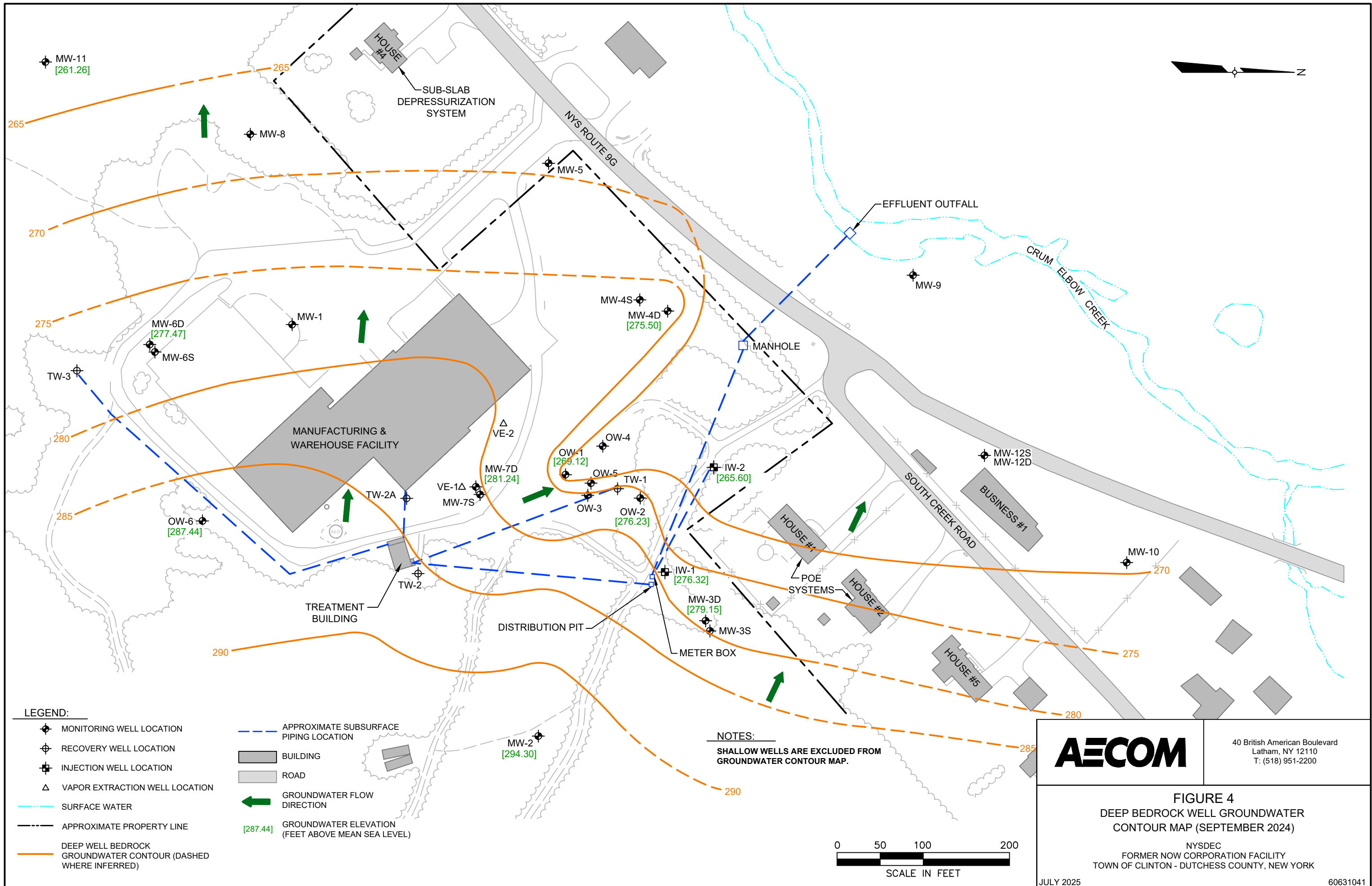
D:\NOW Corp\July 2025\Figure 2 Site Plan and Treatment System Details July 2025.dwg User: carrie.szczechanski Jul 11, 2025 -- 1:37pm

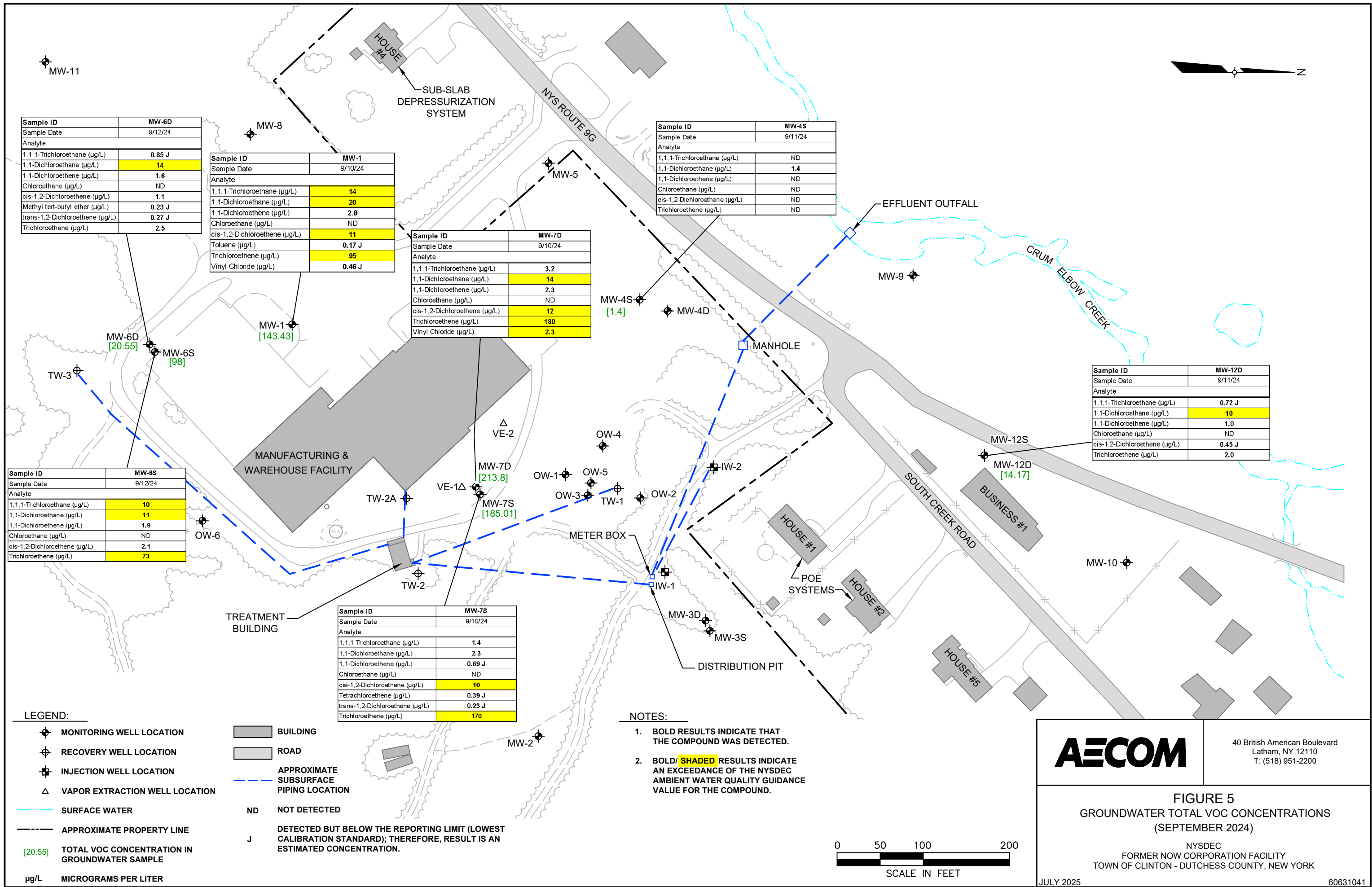


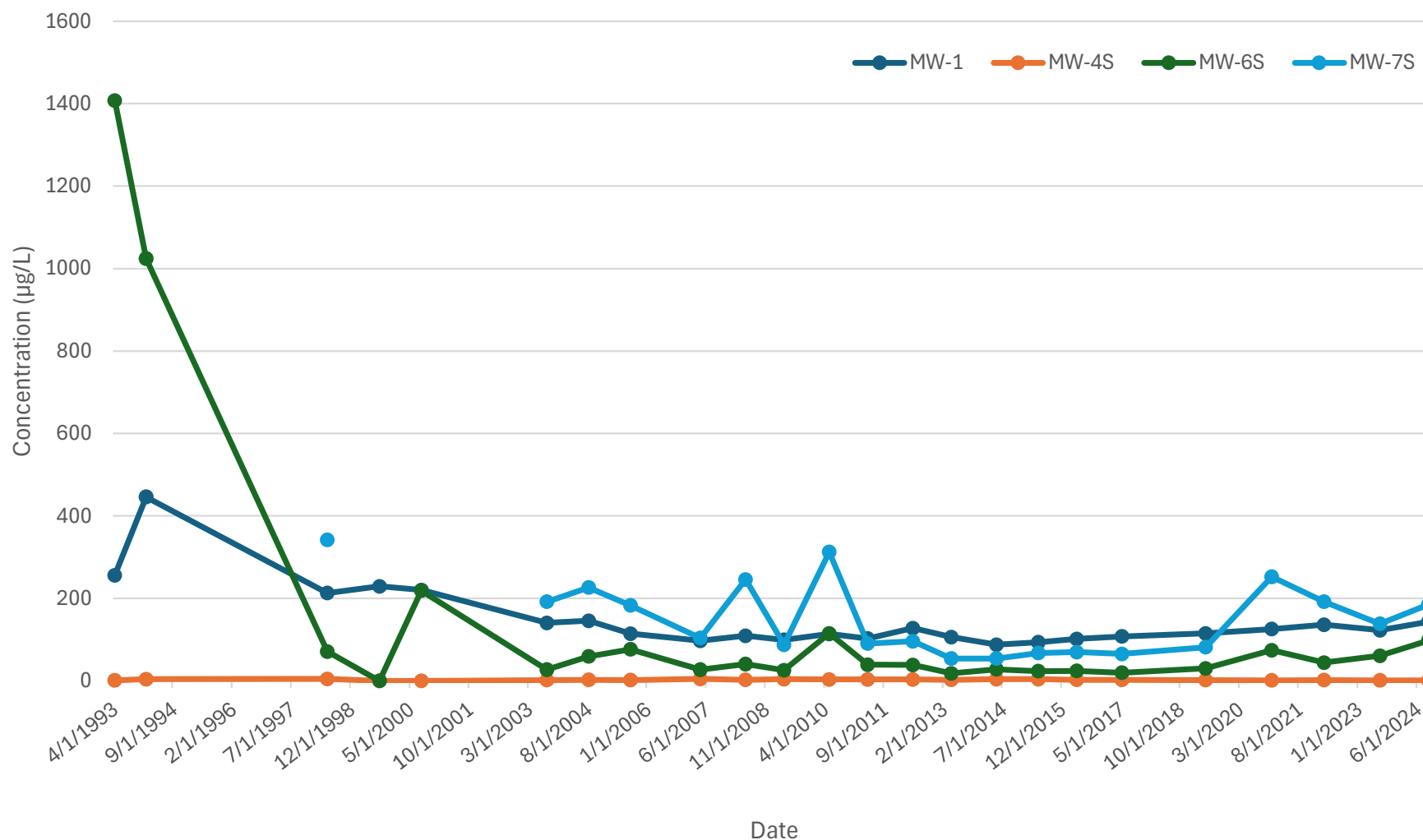
D:\NOW Corp\December 2025 - July 2025 updates\Figure 3 NOW Corp Shallow Well Bedrock GW Contour Map July 2025_Rev1.dwg User:corrie.szczepanski Dec 05, 2025 - 1:23pm



D:\NOW Corp\December 2025 - July 2025 updates\Figure 4 NOW Corp Deep Well Bedrock GW Contour Map July 2025 Rev2.dwg User:corrie.szczepanski Dec 05, 2025 - 1:20pm







AECOM

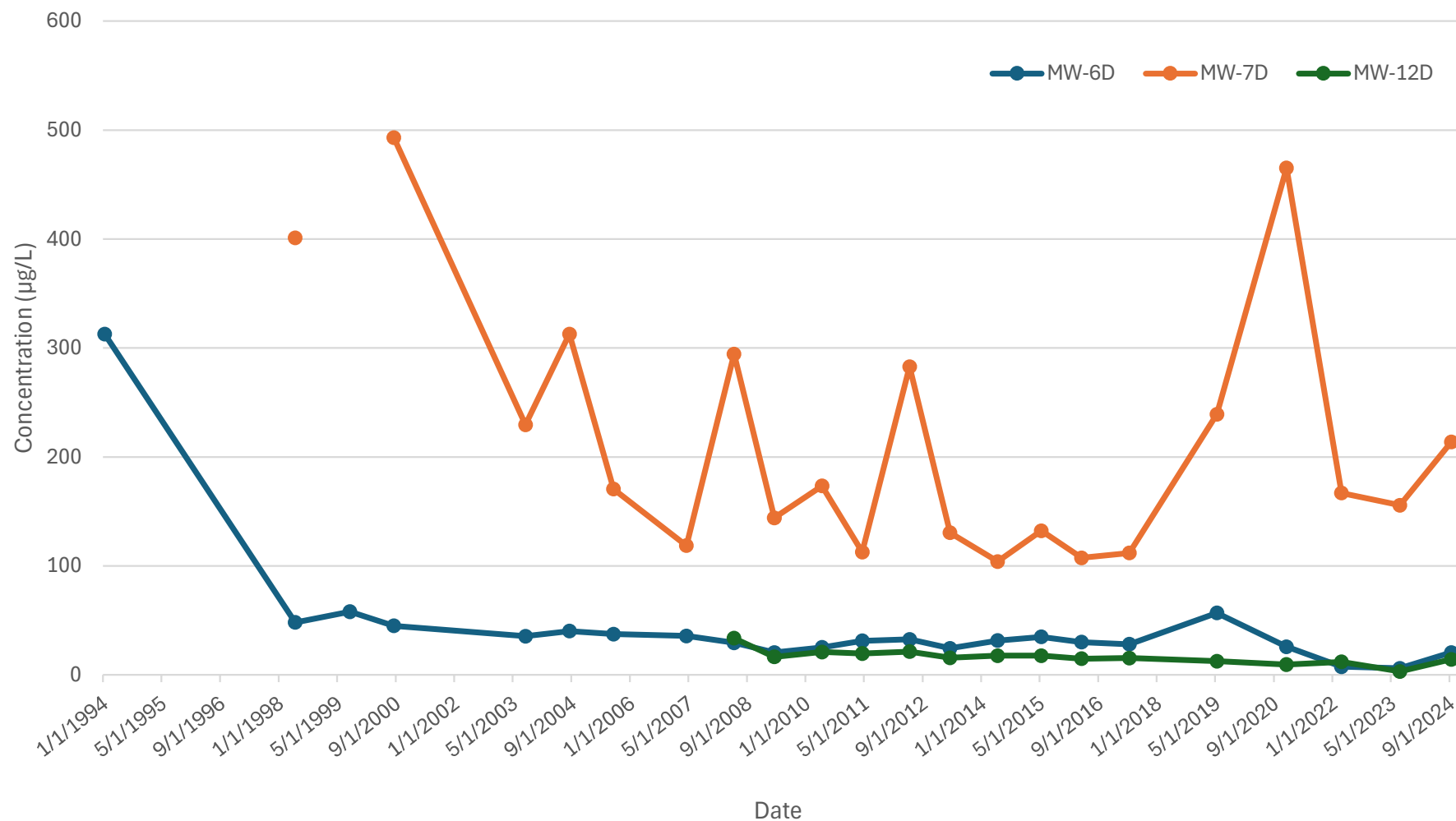
40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200

FIGURE 6
tVOC CONCENTRATIONS IN SHALLOW WELLS
(SEPTEMBER 2024)

NYSDEC
FORMER NOW CORPORATION FACILITY
TOWN OF CLINTON - DUTCHESS COUNTY, NEW YORK

DECEMBER 2025

60631041



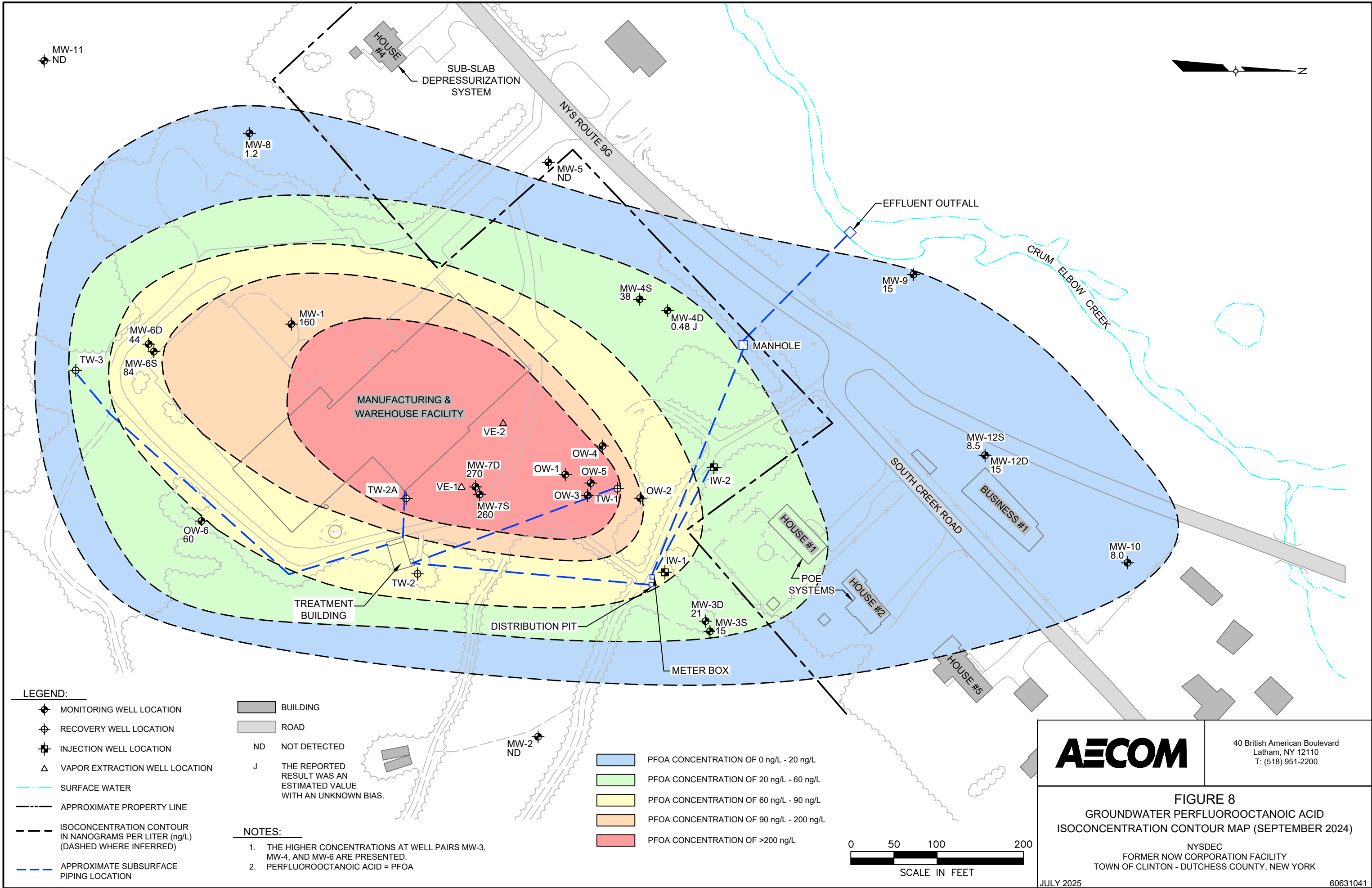
AECOM

40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200

FIGURE 7
tVOC CONCENTRATIONS IN DEEP WELLS
(SEPTEMBER 2024)

NYSDEC
FORMER NOW CORPORATION FACILITY
TOWN OF CLINTON - DUTCHESS COUNTY, NEW YORK

D:\NOW Corp\December 2025 - July 2025 updates\NOW Corp GW PFOA Map July 2025 Rev2.dwg User:carrie.szczepanski Dec 05, 2025 - 1:27pm



AECOM

40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200

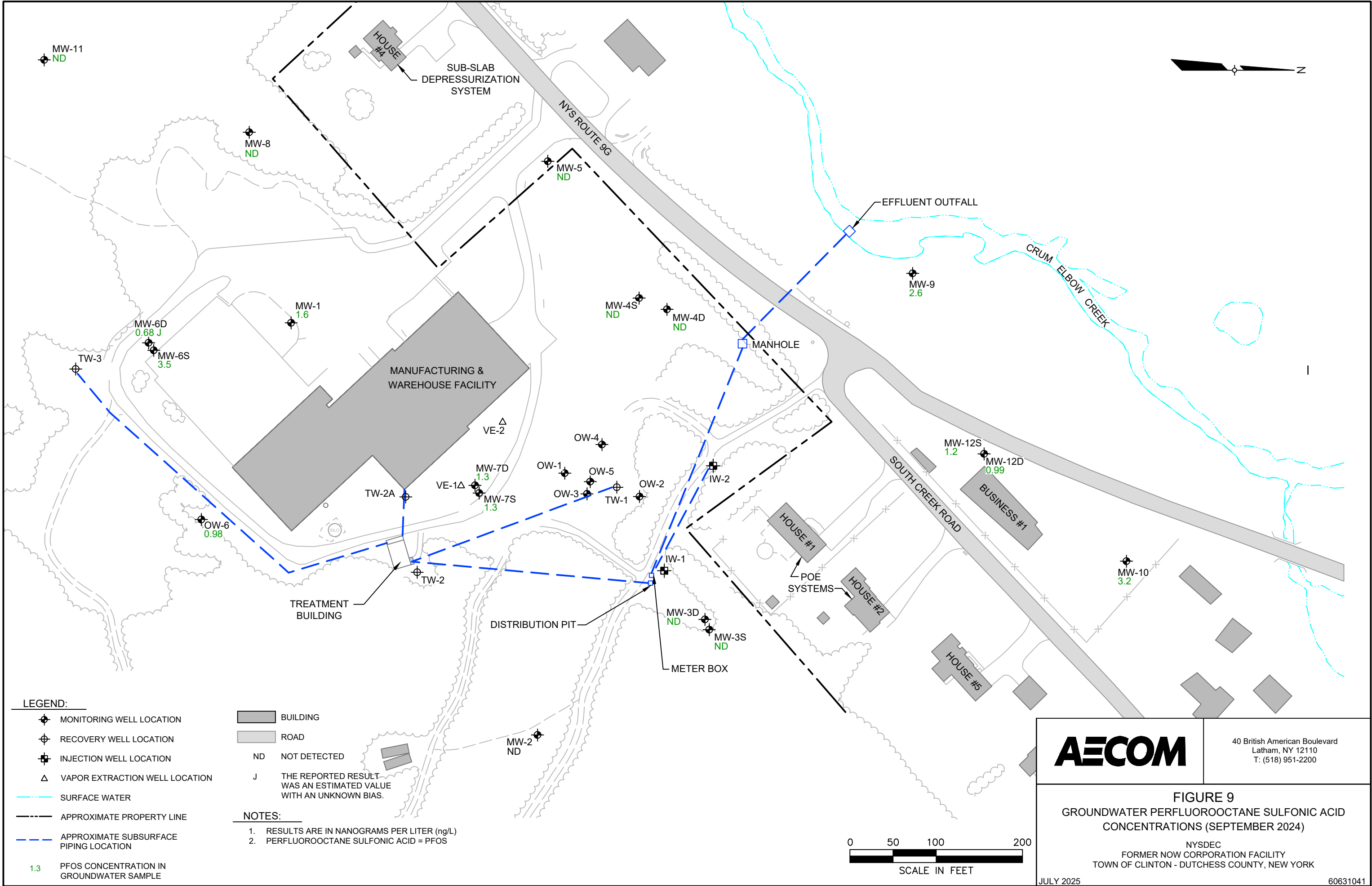
FIGURE 8
GROUNDWATER PERFLUOROOCTANOIC ACID
ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2024)

NYSDEC
FORMER NOW CORPORATION FACILITY
TOWN OF CLINTON - DUTCHESS COUNTY, NEW YORK

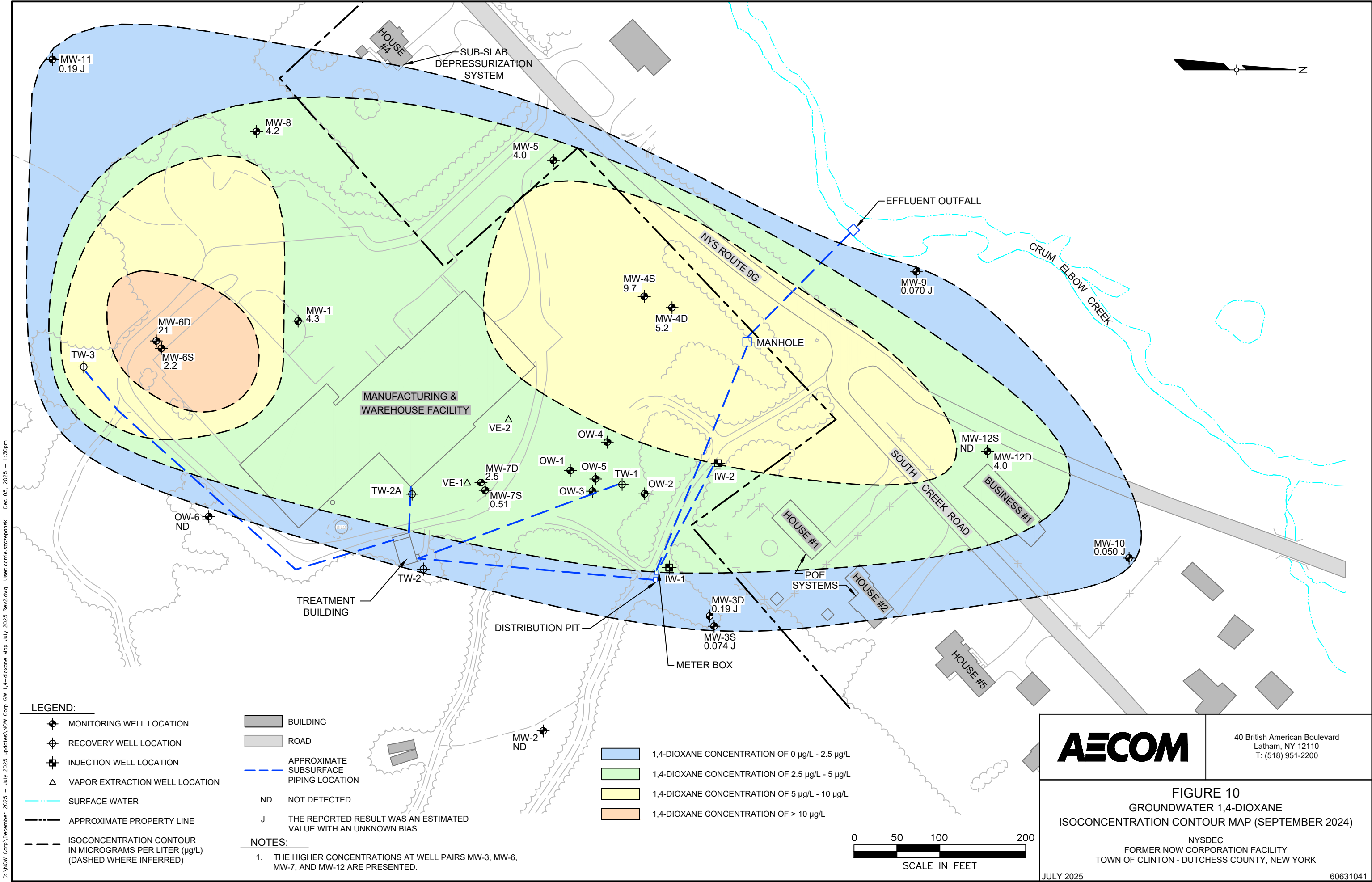
JULY 2025

60631041

D:\NOW Corp\December 2025 - July 2025 updates\NOW Corp GW PFOS Map July 2025 Rev2.dwg User: carrie.szczeniowski Dec 05, 2025 - 1:29pm



40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200





40 British American Boulevard
Latham, NY 12110
T: (518) 951-2200

FIGURE 10
GROUNDWATER 1,4-DIOXANE
ISOCONCENTRATION CONTOUR MAP (SEPTEMBER 2024)

NYSDEC
FORMER NOW CORPORATION FACILITY
TOWN OF CLINTON - DUTCHESS COUNTY, NEW YORK

JULY 2025 60631041

Tables

Table 1
Groundwater Levels
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Well ID	MP Elevation	9/10/2024	
		Depth to Water (feet below MP)	Groundwater Elevation
MW-1	289.50	12.52	276.98
MW-2	332.51	38.21	294.30
MW-3S	312.51	28.16	284.35
MW-3D	312.83	33.68	279.15
MW-4S	298.29	22.83	275.46
MW-4D	298.16	22.66	275.50
MW-5	285.48	19.28	266.20
MW-6S	287.90	8.06	279.84
MW-6D	287.25	9.78	277.47
MW-7S	292.12	10.45	281.67
MW-7D	292.54	11.3	281.24
OW-1	307.75	38.63	269.12
OW-2	305.96	29.73	276.23
OW-3	NA	28.49	NA
OW-4	NA	--	NA
OW-5	NA	--	NA
OW-6	294.81	7.37	287.44
IW-1	312.46	36.14	276.32
IW-2	304.56	38.96	265.60
MW-8	283.65	14.02	269.63
MW-9	275.37	5.8	269.57
MW-10	280.92	12.79	268.13
MW-11	283.72	22.46	261.26
MW-12S	NA	11.39	NA
MW-12D	NA	12.88	NA

Notes:

MP - measuring point

NA - data are not available

-- measurements were not collected

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-1																								
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/16/20	3/4/22 ²	7/11/23	9/10/24	9/10/2024 (DUP)
Volatile Organic Compounds (VOCs)																										
1,1,1-Trichloroethane	5	75	150	57	33	40	24	19	8.3	11	9	8.1	8.5	8.2	28/25 *	8.2	4.8	5.2	5.3	2.4	30	12	16/17 *	13	14	15
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
1,1-Dichloroethane	5	50	50	30	66	31	17	22	25	13	16	10	16	13	16/15 *	15	9.7	11	13	2.0	23	19	18/19 *	17	20	21
1,1-Dichloroethene	5	6	6	5	ND	ND	3	4.5	6.1	2.9	2.8	1.4 J	2.9	2.4	3.1/2.8 *	3.8	2.3	2.6	2.5	0.58	2.0	2.0	2.7 V-06/2.8 V-06 *	2.0	2.8	3.0
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Chloroethane	5	8	6	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
cis-1,2-Dichloroethene	5	27	32	20	ND	29	15	20	18	13	14	12	12	11	9.0/8.9 *	12	10	11	11.4	4.8	9.0	15	9.9/10 *	9.0	11	12
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
m&p-Xylene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Toluene	5	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	0.17 J	0.14 J
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	0.22 J	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND
Trichloroethene	5	88	200	100	130	120	80	79	56	56 D	67	68	74 D	68	72/67 *	67 D	61	64	69.6	98 D	51	78	89/89 *	82	95	96
Vinyl Chloride	2	N/A	2	1	ND	ND	ND	1	1.1	1.4	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	0.2	ND	ND/ND*	ND	0.46 J	0.52 J
TOTAL VOCs		256	446	213	229	220	140	146	115	97.3	109	99.5	113	103	128/119 *	106	87.8	93.8	102	108	115	126	136/138 *	123	143	148

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-2										MW-3D									
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08	4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08
Volatile Organic Compounds (VOCs)																					
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
m&p-Xylene	5	3	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Toluene	5	3	N/A	ND	ND	ND	ND	ND	ND	ND	ND	1	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Trichloroethene	5	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	0.7	3	ND	ND	ND	ND	ND	ND	ND/ND*	ND
Vinyl Chloride	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND
TOTAL VOCs		6.00	2.00	ND	ND	ND	ND	ND	ND	ND	ND	1.70	3.00	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-3S									
		1/12/94	5/8/98	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-4S																							
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/21/20	3/1/22	7/11/23	9/11/24
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	4	5	ND	ND	2.2	1.6	1	2.3	2.5	2.5/2.4*	2	2.2	2.0	1.9	2.0	1.9/1.9*	1.4/1.4*	1.5/1.5*	1.0	0.79 J	1.4	1.2	1.4
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	0.8	0.6	2.5	ND	1.5/1.4*	1.4	1.5	1.2	0.85	2.1	1.9/2.0*	1.2 J/1.0 J*	1.1/1.1*	0.8 J	ND	0.56 J	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
m&p-Xylene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Toluene	5	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
Vinyl Chloride	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	ND	ND	ND	ND/ND*	ND/ND*	ND/ND*	ND	ND	ND	ND	ND
TOTAL VOCs		1.00	4.00	5.00	ND	ND	2.20	2.40	1.60	4.80	2.50	4.05	3.40	3.70	3.20	2.75	4.10	3.80	2.60	2.60	1.80	0.79	1.96	1.20	1.40

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-4D									MW-5									
		1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08	4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08
Volatile Organic Compounds (VOCs)																				
1,1,1-Trichloroethane	5	ND	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38 J
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	100	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		ND	ND	195	ND	ND	ND	ND	ND	ND	4.00	2.00	ND	ND	ND	ND	ND	ND	ND	0.38

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-6S																							
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	10/19/05 ³	4/24/07	5/28/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/15/20	3/2/22	7/12/23	9/12/24
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	5	710	510	23	ND	45	2.5	7.6	12	4	3.7	2.3	11	3.8	8.5	ND	2.5	2.2	1.3	1.2 H	9	6.9	6.5	7.9	10
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	57	39	3	ND	14	ND	2.7	4.3	1.3	1.9	0.93	18	2.9	3	0.85	1.8	1.2	1.2	1.3 H	2	4.4	3.2	4.5	11
1,1-Dichloroethene	5	11	3	ND	ND	ND	ND	1.3	1.1	0.38 J	0.91	0.33 J	2.8	0.73	ND	ND	0.36 J	ND	0.5 J	ND	0.5 J	ND	0.60 J	0.78 J	1.9
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	17	12	2	ND	ND	ND	0.9	2.2	0.69	0.49 J	0.38 J	1.1	0.64	1.8	0.32 J	0.61	ND	0.3 J	ND	0.5 J	ND	0.86 J	1.3	2.1
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	610	460	43	ND	160	25	47	57	21	34	22	82 D	31	25	17	23	20	20.6	17	20	63	33	46	73
Vinyl Chloride	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		1,410	1,020	71	ND	219	27.5	59.5	76.6	27.4	41	25.9	115	39.1	38.3	18.2	28.3	23.4	23.9	19.5	30.0	74.3	44.2	60.5	98

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-6D																						
		1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/21/20 ⁴	3/2/22 ⁵	7/11/23 ⁶	9/12/24 ⁴
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	5	160	13	ND	7	5.8	3	1.2	4.1	1.8	1.1	2.3	3.3	3.1	1.9	2.2	3.0	1.0	ND	36	3.1	0.26 J	ND	0.85 J
1,1,2-Trichloroethane	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	140	20	52	ND	16	26	26	17	18	11	13	15	19	12	16	18	16.8	16	12	14	5.5	4.1	14
1,1-Dichloroethene	5	1	ND	ND	30	1.1	1.9	1.6	1.7	1.6	0.64	1.4	1.6	1.8	0.90	2.0	2.1	3.2	1.8	1.0	2.4	0.55 J	0.68 J	1.6
1,2-Dichloroethane	0.6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	0.6	0.8	3.4	ND	0.94	ND	1.6	1.8	0.61	3.2	2.3	2.7	0.73	0.8 J	1.7	ND	ND	ND
cis-1,2-Dichloroethene	5	0.7	2	ND	ND	1.5	1.4	1.2	1.2	1.1	0.95	1	1.2	1.0	1.2	1.2	1.4	1.1	1.4	1.0	0.90 J	ND	0.2 J	1.1
Ethylbenzene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J
Trichloroethene	5	11	13	6	8	11	7.4	6.6	8.2	7.1	5.8	7.5	8.6	6	7.8	6.4	8.1	5.3	8.1	6	3.5	1.0	0.96 J	2.5
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		313	48	58	45	35.4	40.3	37.4	35.6	29.6	20.4	25.2	31.3	32.7	24.4	31.4	34.9	30.1	28.0	56.8	25.8	7.51	6.16	20.6

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-7S																				
		5/8/98	8/1/99	8/27/03	8/24/04	10/19/05 ³	4/24/07	5/29/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/16/20	3/2/22	7/13/23	9/10/24
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	5	34	N/A	8.5/8.6*	13	12	5.4	2.9	ND	12	3	ND	ND	0.97 J	ND	0.9 J	1.1	2	13	1.2 J	1.1/1.1*	1.4
1,1,2-Trichloroethane	1	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	11	N/A	3.2/3*	6.4	2.4	1.7	2.2	ND	7.3	ND	ND	0.38 J	ND	ND	0.4 J	0.51	0.4 J	ND	1.4 J	1.1/1.2*	2.3
1,1-Dichloroethene	5	ND	N/A	ND/ND*	0.9	ND	ND	0.51	ND	0.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32 J	0.27 J/ND*	0.69 J
1,2-Dichloroethane	0.6	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	1	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	17	N/A	20/20*	16	9	5.9	9.7	5.6	31	5.4	4.7	3.4	3.1	4.6	5.4	4.4	7	9.5	8.9	6.1/6.3*	10
Ethylbenzene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m&p-Xylene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o-Xylene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	5	ND	N/A	ND/ND*	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39 J	
Toluene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/0.68 J*	ND	
trans-1,2-Dichloroethene	5	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23 J	
Trichloroethene	5	280	N/A	160/160*	190	160	91 D	230	82	260 D	82	91	50 D	50	63	63.0	59 HD	72.0	230	180	130/130*	170
Vinyl Chloride	2	ND	N/A	ND/ND*	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TOTAL VOCs		342	N/A	192	226	183	104	246	87.6	313	90.4	95.7	53.8	54.1	67.6	69.7	65.0	81.4	253	192	139/139*	185

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-7D																					
		5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	10/19/05 ³	4/24/07	5/29/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/21/20	3/2/22	7/13/23	9/10/24
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	5	15	N/A	85	12	21/22*	5.6	2	22/22*	ND	5.4/5.3*	ND/ND*	ND	2.5/2.4*	1.8 J/2.3	4.2	1.4	4.3	150	160 F1	4.6	2.9	3.2
1,1,2-Trichloroethane	1	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND F1 F2	ND	ND	ND
1,1-Dichloroethane	5	34	N/A	ND	17	21/21*	7.5	2.5	38/37*	ND	5.9/5.7*	ND/ND*	23	2.7/2.4*	ND/2.4	3.0	2.0	12	3.0	84 F1	8.8	9.2	14.0
1,1-Dichloroethene	5	4	N/A	28	2.4	4.7/4.7*	1.3	0.73	4.6/5.2*	ND	0.93/1.2*	ND/ND*	ND	ND/ND*	ND/ND*	ND	0.6 J	2.5	0.6 J	7.3 F2	0.82 J	1.0	2.3
1,2-Dichloroethane	0.6	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND F2	ND	ND	ND
Benzene	1	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND F2	ND	ND	ND
Chlorobenzene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	8	N/A	ND	8.1	11/11*	6.3	3.5	10/9.7*	4.1 J	6.4/5.9*	3.5/2.7*	ND	5.7/5.3*	3.6/4.7	5.0	4.7	12	4.0	14 F2	2.7	2.6	12.0
Ethylbenzene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	0.25 J/0.22 J	ND	ND/ND*	ND/ND*	ND	0.25 J/ND	ND/ND*	ND	ND	ND	0.2 J	ND	ND	ND	ND
Toluene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	9.3/8*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND F1	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	340	N/A	380	190	250/260*	150	110 D	220/220*	140	150/160 D*	110/92*	260	120 D/120 D	99/110	120	98.6 D	81 HD	82	200 F1	150	140	180
Vinyl Chloride	2	ND	N/A	ND	ND	ND/ND*	ND	ND	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND/ND*	ND/ND*	ND	ND	ND	ND	ND F2	ND	ND	2.3
TOTAL VOCs		401	N/A	493	230	313	171	119	294	144	173	113	283	131	104	132	107	112	239	465	167	156	214

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-8										MW-9									
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08	4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08
Volatile Organic Compounds (VOCs)																					
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	5	0.8	N/A	ND	ND	ND	ND	ND	ND	ND	ND	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		0.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-10										MW-11									
		4/27/93	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/29/08	1/12/94	5/8/98	8/1/99	8/18/00	8/27/03	8/24/04	8/25/05	4/24/07	5/28/08	
Volatile Organic Compounds (VOCs)																					
1,1,1-Trichloroethane	5	2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
1,1,2-Trichloroethane	1	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
1,1-Dichloroethane	5	17	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
1,2-Dichloroethane	0.6	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Benzene	1	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Chlorobenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Ethylbenzene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
m&p-Xylene	5	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
o-Xylene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Toluene	5	1	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
trans-1,2-Dichloroethene	5	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
Vinyl Chloride	2	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/ND*	ND	ND	
TOTAL VOCs		20.0	11.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.
² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 2
Groundwater Analytical Data Summary
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-12S							MW-12D														
		5/29/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/29/08	4/27/09	5/27/10	4/19/11	5/8/12	4/23/13	5/16/14	5/8/15	4/19/16	5/4/17	5/1/19	12/21/20	3/4/22	7/12/23	9/11/24
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	0.99	ND	ND	ND	0.5 J	0.25 J	ND	ND	0.91 J	ND	0.72 J
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	25	11	13	14	15	12	12	12	9.5	11	9.0	6.7	8.6	2.9	10
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	2	1.5	1.8	1.4	1.6	0.72	1.7	2.1	1.8	1.9	2.0	1.5	0.98 V-06 J	ND	1.0
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	4.6	2	4.5	2.9	2.0	1.4	2.2	2.0	1.2 J	1.0	0.7 J	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	0.25 J	0.25 J	0.30 J	ND	ND	0.24 J	0.26 J	ND	0.3 J	ND	ND	ND	0.19 J	ND	0.45 J
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m&p-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	5	0.31 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	1.6	1.7	1.5	1.4	1.8	1.4	1.6	1.6	1.5	1.3	1.0	1.3	1.2	0.21 J	2.0
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL VOCs		0.31	ND	ND	ND	ND	ND	ND	33.7	16.5	21.1	19.7	21.4	15.8	17.8	17.7	14.8	15.5	12.7	9.5	11.9	3.11	14.2

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
All concentrations are in micrograms per liter (µg/L).
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
May 2012 Sampling Event - groundwater recovery wells had been inactive since October 2011.

² Dichlorodifluoromethane (Freon 12) was also detected at a concentration of 0.27 J µg/L in the original sample and 0.33 µg/L in the duplicate sample.
³ MW-6S, MW-7S, & MW-7D were dry on 8/25/05 and were sampled on 10/19/05 instead.
⁴ Methyl tert-butyl ether (MTBE) was also detected at a concentration of 0.23 J µg/L.
⁵ MTBE was also detected at a concentration of 0.20 J µg/L.
⁶ MTBE was also detected at a concentration of 0.22 J µg/L.

Definitions:
* - Duplicate sample result
ND - Not Detected
N/A - Not Analyzed (either well was dry or analyte was not reported)
D - Sample analyzed at a dilution
J - Reported result was an estimated value with an unknown bias
V-06 - Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound
H - Sample analyzed outside of method specified holding time
F1 - Matrix Spike and/or Matrix Spike Duplicate recovery exceeds control limits
F2 - Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

Table 3
Emerging Contaminant Sampling Results
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-1						MW-2				MW-3D				MW-3S			
		5/1/2019	3/4/2022	3/4/2022	7/11/2023	9/10/2024	9/10/2024	12/22/2020	3/2/2022	7/12/2023	9/12/2024	12/22/2020	3/2/2022	7/12/2023	9/12/2024	12/22/2020	3/2/2022	7/12/2023	9/11/2024
Semivolatile Organic Compounds (SVOCs) (µg/L)				DUP			DUP												
1,4-Dioxane	0.35	2.0	4.0	3.6	3.9	4.3 B-07	4.5 B-07	<0.19	<0.20	<0.22	<0.21	1.0	0.29	0.32	0.19 J	<0.21	<0.21	<0.22	0.074 J
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)																			
Perfluorooctanoic acid (PFOA)	6.7	95	89	NA	130	160	160	<1.9	1.1 J	<0.97	<0.91	17	20	23	21	13	9.2	32	15
Perfluorooctanesulfonic acid (PFOS)	2.7	1.8	0.90 J	NA	1.1	1.3	1.6	<1.9	1.8 J	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorobutanoic acid (PFBA)	--	2.2 J	NA	NA	4.3	4.8	4.8	<4.7	NA	<3.9	<3.6	<4.8	NA	1.5 J	<3.6	<5.7	NA	<3.8	<3.6
Perfluoropentanoic acid (PFPeA)	--	<5.3	NA	NA	3.9	6.3	5.5	<1.9	NA	<1.9	<1.8	<1.9	NA	0.51 J	0.71 J	<2.3	NA	0.38 J	<1.8
Perfluorohexanoic acid (PFHxA)	--	1.4 J	1.6 J	NA	4.1	5.5	5.8	<1.9	1.1 J	<0.97	<0.91	<1.9	<2.1	0.86 J	1.2	<2.3	<2.0	0.75 J	0.36 J
Perfluoroheptanoic acid (PFHpA)	--	1.3	1.9 J	NA	3.3	4.2	4.2	<1.9	0.75 J	<0.97	<0.91	<1.9	<2.1	0.82 J	1.0	<2.3	<2.0	1.7	0.78 J
Perfluorononanoic acid (PFNA)	--	0.37 J	<2.0	NA	0.39 J	0.92 J	0.81 J	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorodecanoic acid (PFDA)	--	<1.8	<2.0	NA	<0.91	0.23 J	0.3 J	<1.9	0.84 J	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluoroundecanoic acid (PFUnA)	--	<1.8	<2.0	NA	<0.91	<0.96	<0.98	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorododecanoic acid (PFDoA)	--	<1.8	<2.0	NA	<0.91	<0.96	<0.98	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorotridecanoic acid (PFTriA)	--	<0.88	<2.0	NA	<0.91	<0.96	<0.98	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorotetradecanoic acid (PFTeA)	--	<0.88	<2.0	NA	<0.91	<0.96	<0.98	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	<0.96	<0.9
Perfluorobutanesulfonic acid (PFBS)	--	0.81 J	<2.0	NA	3.2	2.2	2.0	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	0.32 J	<2.3	<2.0	0.37 J	0.42 J
Perfluorohexanesulfonic acid (PFHxS)	--	0.74 J	<2.0	NA	0.33 J	0.39 J	0.45 J	<1.9	<2.1	<0.97	<0.91	<1.9	<2.1	<0.97	<0.91	<2.3	<2.0	0.29 J	<0.9
Perfluoroheptanesulfonic acid (PFHpS)	--	<1.8	NA	NA	<0.91	<0.96	<0.98	<1.9	NA	<0.97	<0.91	<1.9	NA	<0.97	<0.91	<2.3	NA	<0.96	<0.9
Perfluorodecanesulfonic acid (PFDS)	--	<1.8	NA	NA	<0.91	<0.96	<0.98	<1.9	NA	<0.97	<0.91	<1.9	NA	<0.97	<0.91	<2.3	NA	<0.96	<0.9
Perfluorooctanesulfonamide (PFOSA)	--	<2.6	NA	NA	<0.91	<0.96	<0.98	<1.9	NA	<0.97	<0.91	<1.9	NA	<0.97	<0.91	<2.3	NA	<0.96	<0.9
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	<2.6	<2.0	NA	<0.91	<0.96	<0.98	<4.7	<2.1	<0.97	<0.91	<4.8	<2.1	<0.97	<0.91	<5.7	<2.0	<0.96	<0.9
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	<2.6	<2.0	NA	<0.91	<0.96	<0.98	<4.7	<2.1	<0.97	<0.91	<4.8	<2.1	<0.97	<0.91	<5.7	<2.0	<0.96	<0.9
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	<1.8	NA	NA	<3.6	<3.8	<3.9	<4.7	NA	<3.9	<3.6	<4.8	NA	<3.9	<3.6	<5.7	NA	2.6 J	<3.6
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	<5.3	NA	NA	<3.6	<3.8	<3.9	<1.9	NA	<3.9	<3.6	<1.9	NA	<3.9	<3.6	<2.3	NA	<3.8	<3.6
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA	<2.0	NA	<3.6	<3.8	<3.9	NA	<2.1	<3.9	<3.6	NA	<2.1	<3.9	<3.6	NA	<2.0	<3.8	<3.6
11C1-PF3OUdS (F53B Major)	--	NA	<2.0	NA	<3.6	<3.8	<3.9	NA	<2.1	<3.9	<3.6	NA	<2.1	<3.9	<3.6	NA	<2.0	<3.8	<3.6
9C1-PF3ONS (F53B Minor)	--	NA	<2.0	NA	<3.6	<3.8	<3.9	NA	<2.1	<3.9	<3.6	NA	<2.1	<3.9	<3.6	NA	<2.0	<3.8	<3.6
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	--	NA	<2.0	NA	<3.6	<3.8	<3.9	NA	<2.1	<3.9	<3.6	NA	<2.1	<3.9	<3.6	NA	<2.0	<3.8	<3.6

Notes:

¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)

Concentrations are in micrograms per liter (µg/L) or nanograms per liter (ng/L), as indicated.

Detected concentrations are in bold font.

Results greater than the NYSDEC AWQS/GV are shaded in gray.

Definitions:

NA - Not analyzed

J - Reported result was an estimated value with an unknown bias

E - Result exceeded calibration range

I - Value is EMPC (estimated maximum possible concentration)

D - Sample analyzed at a dilution

B-07 - Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank

Z-01 - Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank

Table 3
Emerging Contaminant Sampling Results
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-4D			MW-4S			MW-5					MW-6D			
		3/2/2022	7/11/2023	9/11/2024	3/2/2022	7/11/2023	9/11/2024	12/21/2020	12/21/2020	3/4/2022	7/11/2023	9/10/2024	12/21/2020	3/2/2022	7/11/2023	9/12/2024
Semivolatile Organic Compounds (SVOCs) (µg/L)									DUP							
1,4-Dioxane	0.35	1.8	1.7	5.2 B-07	12	11	9.7 B-07	4.9 E	4.9 E	4.1	2.5	4.0 B-07	22 E	28	28	21
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)																
Perfluorooctanoic acid (PFOA)	6.7	3.8	3.7	0.48 J	36	32	38	<1.8	<1.9	<1.9	0.22 J	<0.93	32	29	24	44
Perfluorooctanesulfonic acid (PFOS)	2.7	2.4	2.3	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	6.8	6.7	0.68 J
Perfluorobutanoic acid (PFBA)	--	NA	1.4 J	<3.6	NA	4.8	4.6	<4.5	<4.6	NA	<3.8	<3.7	<4.5	NA	2.2 J	2.6 J
Perfluoropentanoic acid (PFPeA)	--	NA	1.7 J	<1.8	NA	2.2	2.8	<1.8	<1.9	NA	<1.9	<1.9	<1.8	NA	1.0 J	2.1
Perfluorohexanoic acid (PFHxA)	--	<2.0	1.2	0.27 J	1.1 J	1.9	2.2	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	1.3 J	1.0	1.9
Perfluoroheptanoic acid (PFHpA)	--	<2.0	0.77 J	<0.91	0.87 J	1.1	1.3	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	0.87 J	0.67 J	1.2
Perfluorononanoic acid (PFNA)	--	<2.0	0.23 J	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	0.19 J	<1.8	<2.1	<0.94	0.19 J
Perfluorodecanoic acid (PFDA)	--	1.0 J	0.67 J	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	<0.94	<0.92
Perfluoroundecanoic acid (PFUnA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	<0.94	<0.92
Perfluorododecanoic acid (PFDoA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	<0.94	<0.92
Perfluorotridecanoic acid (PFTriA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	<0.94	<0.92
Perfluorotetradecanoic acid (PFTeA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	<0.94	<0.92
Perfluorobutanesulfonic acid (PFBS)	--	<2.0	<0.93	<0.91	<2.1	0.32 J	0.53 J	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	0.32 J	0.64 J
Perfluorohexanesulfonic acid (PFHxS)	--	<2.0	0.28 J	<0.91	<2.1	0.25 J	<0.89	<1.8	<1.9	<1.9	<0.94	<0.93	<1.8	<2.1	0.50 J	0.32 J
Perfluoroheptanesulfonic acid (PFHpS)	--	NA	<0.93	<0.91	NA	<1.0	<0.89	<1.8	<1.9	NA	<0.94	<0.93	<1.8	NA	<0.94	<0.92
Perfluorodecanesulfonic acid (PFDS)	--	NA	<0.93	<0.91	NA	<1.0	<0.89	<1.8	<1.9	NA	<0.94	<0.93	<1.8	NA	<0.94	<0.92
Perfluorooctanesulfonamide (PFOSA)	--	NA	0.92 J	2.1	NA	<1.0	<0.89	<1.8	<1.9	NA	<0.94	<0.93	<1.8	NA	2.5	<0.92
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<4.5	<4.6	<1.9	<0.94	<0.93	<4.5	<2.1	<0.94	<0.92
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	<2.0	<0.93	<0.91	<2.1	<1.0	<0.89	<4.5	<4.6	<1.9	<0.94	<0.93	<4.5	4.0	0.29 J	<0.92
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	NA	<3.7	<3.6	NA	<4.0	<3.6	<4.5	<4.6	NA	<3.8	<3.7	<4.5	NA	<3.7	<3.7
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NA	<3.7	<3.6	NA	<4.0	<3.6	<1.8	<1.9	NA	<3.8	<3.7	<1.8	NA	<3.7	<3.7
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	<2.0	<3.7	<3.6	<2.1	<4.0	<3.6	NA	NA	<1.9	<3.8	<3.7	NA	<2.1	<3.7	<3.7
11C1-PF3OUdS (F53B Major)	--	<2.0	<3.7	<3.6	<2.1	<4.0	<3.6	NA	NA	<1.9	<3.8	<3.7	NA	<2.1	<3.7	<3.7
9C1-PF3ONS (F53B Minor)	--	<2.0	<3.7	<3.6	<2.1	<4.0	<3.6	NA	NA	<1.9	<3.8	<3.7	NA	<2.1	<3.7	<3.7
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	--	<2.0	<3.7	<3.6	<2.1	<4.0	<3.6	NA	NA	<1.9	<3.8	<3.7	NA	<2.1	<3.7	<3.7

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)
Concentrations are in micrograms per liter (µg/L) or nanograms per liter (ng/L), as indicated.
Detected concentrations are in bold font.
Results greater than the NYSDEC AWQS/GV are shaded in gray.
Definitions:
NA - Not analyzed
J - Reported result was an estimated value with an unknown bias
E - Result exceeded calibration range
I - Value is EMPC (estimated maximum possible concentration)
D - Sample analyzed at a dilution
B-07 - Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank
Z-01 - Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank

Table 3
Emerging Contaminant Sampling Results
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-6S				MW-7D					MW-7S				MW-8			
		5/1/2019	3/2/2022	7/12/2023	9/12/2024	5/1/2019	5/1/2019	3/2/2022	7/13/2023	9/10/2024	3/2/2022	7/13/2023	7/13/2023	9/10/2024	12/22/2020	3/3/2022	7/12/2023	9/11/2024
Semivolatile Organic Compounds (SVOCs) (µg/L)							DUP						DUP					
1,4-Dioxane	0.35	0.2 J	0.64	1.1	2.2	0.3	0.3	2.3	2.7	2.5 B-07	0.51	0.5	0.5	0.51 B, Z-01	5.6 E	5.1	6.0	4.2
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)																		
Perfluorooctanoic acid (PFOA)	6.7	15	27	57	84	89	87	410 D	250	270	230 D	250	270	260	3.3	2.3	2.3	1.2
Perfluorooctanesulfonic acid (PFOS)	2.7	1.3 J	0.91 J	2.5	3.5	1.0 J	1.1 J	3.9	2.2	1.3	<2.0	0.93 J	1.2	1.3	<2.1	<2.0	<0.94	<0.93
Perfluorobutanoic acid (PFBA)	--	<5.1	NA	6.6	9.1	<5.3	<5.2	NA	4.5	5.4	NA	3.9	3.6 J	8.8	<5.2	NA	2.3 J	<3.7
Perfluoropentanoic acid (PFPeA)	--	<5.1	NA	7.8	7.2	<5.3	<5.2	NA	3.7	3.9	NA	0.90 J	<1.9	8.3	<2.1	NA	0.52 J	<1.9
Perfluorohexanoic acid (PFHxA)	--	0.43 J	1.4 J	8.7	8.6	0.81 J	0.82 J	3.8	3.4	6.0	2.7	2.3	3.1	9.1	<2.1	<2.0	0.27 J	0.25 J
Perfluoroheptanoic acid (PFHpA)	--	0.42 J	1.8 J	5.0	7.7	1.3	1.4	5.0	3.3	5.2	3.5	3.9	4.2	7.6	<2.1	<2.0	<0.92	<0.93
Perfluorononanoic acid (PFNA)	--	<1.7	<2.0	0.48 J	1.3	<1.8	<1.7	<2.1	0.48 J	0.73 J	<2.0	0.51 J	0.51 J	1.3	<2.1	<2.0	<0.92	<0.93
Perfluorodecanoic acid (PFDA)	--	<1.7	<2.0	0.49 J	1.2	0.84 J	0.98 J	2.0 J	0.92 J	0.97	2.4	1.4	<0.94	3.3	<2.1	<2.0	<0.92	<0.93
Perfluoroundecanoic acid (PFUnA)	--	<1.7	<2.0	<0.94	<0.91	<1.8	<1.7	<2.1	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<2.1	<2.0	<0.92	<0.93
Perfluorododecanoic acid (PFDoA)	--	<1.7	<2.0	<0.94	<0.91	<1.8	<1.7	<2.1	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<2.1	<2.0	<0.92	<0.93
Perfluorotridecanoic acid (PFTriA)	--	<0.85	<2.0	<0.94	<0.91	<0.88	<0.87	<2.1	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<2.1	<2.0	<0.92	<0.93
Perfluorotetradecanoic acid (PFTeA)	--	<0.85	<2.0	<0.94	<0.91	<0.88	<0.87	<2.1	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<2.1	<2.0	<0.92	<0.93
Perfluorobutanesulfonic acid (PFBS)	--	<0.85	<2.0	2.0	2.2	0.37 J	0.36 J	<2.1	1.5	3.3	<2.0	7.3	8.8	2.1	<2.1	<2.0	<0.92	<0.93
Perfluorohexanesulfonic acid (PFHxS)	--	<1.7	<2.0	0.60 J	0.62 J	<1.8	<1.7	<2.1	0.36 J	0.35 J	<2.0	0.39 J	0.28 J	0.38 J	<2.1	<2.0	<0.92	<0.93
Perfluoroheptanesulfonic acid (PFHpS)	--	<1.7	NA	<0.94	<0.91	<1.8	<1.7	NA	<0.94	<0.91	NA	<0.96	<0.94	<0.94	<2.1	NA	<0.92	<0.93
Perfluorodecanesulfonic acid (PFDS)	--	<1.7	NA	<0.94	<0.91	<1.8	<1.7	NA	<0.94	<0.91	NA	<0.96	<0.94	<0.94	<2.1	NA	<0.92	<0.93
Perfluorooctanesulfonamide (PFOSA)	--	<2.6	NA	<0.94	<0.91	<2.6	<2.6	NA	0.34 J	<0.91	NA	<0.96	<0.94	<0.94	<2.1	NA	<0.92	<0.93
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	<2.6	<2.0	<0.94	<0.91	<2.6	<2.6	<2.1	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<5.2	<2.0	<0.92	<0.93
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	<2.6	<2.0	<0.94	<0.91	<2.6	<2.6	2.7	<0.94	<0.91	<2.0	<0.96	<0.94	<0.94	<5.2	<2.0	<0.92	<0.93
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	<1.7	NA	<3.8	<3.6	<1.8	<1.7	NA	<3.8	<3.7	NA	<3.8	<3.8	<3.7	<5.2	NA	<3.7	<3.7
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	<5.1	NA	<3.8	<3.6	<5.3	<5.2	NA	<3.8	<3.7	NA	<3.8	<3.7	<3.7	<2.1	NA	<3.7	<3.7
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA	<2.0	<3.8	<3.6	NA	NA	<2.1	<3.8	<3.7	<2.0	<3.8	<3.7	<3.7	NA	<2.0	<3.7	<3.7
11C1-PF3OUdS (F53B Major)	--	NA	<2.0	<3.8	<3.6	NA	NA	<2.1	<3.8	<3.7	<2.0	<3.8	<3.7	<3.7	NA	<2.0	<3.7	<3.7
9C1-PF3ONS (F53B Minor)	--	NA	<2.0	<3.8	<3.6	NA	NA	<2.1	<3.8	<3.7	<2.0	<3.8	<3.7	<3.7	NA	<2.0	<3.7	<3.7
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	--	NA	<2.0	<3.8	<3.6	NA	NA	<2.1	<3.8	<3.7	<2.0	<3.8	<3.7	<3.7	NA	<2.0	<3.7	<3.7

Notes:

¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)

Concentrations are in micrograms per liter (µg/L) or nanograms per liter (ng/L), as indicated.

Detected concentrations are in bold font.

Results greater than the NYSDEC AWQS/GV are shaded in gray.

Definitions:

NA - Not analyzed

J - Reported result was an estimated value with an unknown bias

E - Result exceeded calibration range

I - Value is EMPC (estimated maximum possible concentration)

D - Sample analyzed at a dilution

B-07 - Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank

Z-01 - Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank

Table 3
Emerging Contaminant Sampling Results
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-9				MW-10				MW-11				MW-12D			
		12/16/2020	3/3/2022	7/13/2023	9/11/2024	12/21/2020	3/3/2022	7/13/2023	9/11/2024	12/22/2020	3/3/2022	7/12/2023	9/12/2024	5/1/2019	3/3/2022	7/12/2023	9/11/2024
Semivolatile Organic Compounds (SVOCs) (µg/L)																	
1,4-Dioxane	0.35	<0.20	<0.22	<0.19	0.070 J	<0.19	<0.21	<0.22	0.050 J	0.54	0.50	0.43	0.19 J	3	<0.25	4.1	4.0 B-07
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)																	
Perfluorooctanoic acid (PFOA)	6.7	7.3	13	6.5	15	8.4	3.7	8.1	8.0	<2.1	<1.8	<0.98	<0.94	10	5.4	9.7	15
Perfluorooctanesulfonic acid (PFOS)	2.7	<2.0	2.4	1.5	2.6	2.2 IJ	1.7 J	1.9	3.2	<2.1	<1.8	<0.98	<0.94	0.58 J	<1.8	0.59 J	0.99
Perfluorobutanoic acid (PFBA)	--	<5.0	NA	2.1 J	3.4 J	<4.7	NA	5.4	4.2	<5.2	NA	<3.9	<3.7	1.9 J	NA	2.3 J	<3.8
Perfluoropentanoic acid (PFPeA)	--	<2.0	NA	0.47 J	1.4 J	<1.9	NA	1.0 J	1.4 J	<2.1	NA	<2.0	<1.9	<5.3	NA	2.4	4.5
Perfluorohexanoic acid (PFHxA)	--	<2.0	<1.9	0.46 J	1.4	<1.9	<1.8	0.79 J	0.47 J	<2.1	<1.8	<0.98	<0.94	1.6 J	1.8	2.8	3.3
Perfluoroheptanoic acid (PFHpA)	--	<2.0	1.1 J	0.42 J	1.5	<1.9	<1.8	0.41 J	0.31 J	<2.1	<1.8	<0.98	<0.94	0.63 J	<1.8	0.48 J	0.72 J
Perfluorononanoic acid (PFNA)	--	<2.0	<1.9	<0.94	0.31 J	<1.9	<1.8	0.66 J	1.0	<2.1	<1.8	<0.98	<0.94	<1.8	<1.8	<0.97	<0.96
Perfluorodecanoic acid (PFDA)	--	<2.0	<1.9	<0.94	<0.96	<1.9	<1.8	<0.94	<0.98	<2.1	<1.8	<0.98	<0.94	<1.8	<1.8	<0.97	<0.96
Perfluoroundecanoic acid (PFUnA)	--	<2.0	<1.9	<0.94	<0.96	<1.9	<1.8	<0.94	<0.98	<2.1	<1.8	<0.98	<0.94	<1.8	<1.8	<0.97	<0.96
Perfluorododecanoic acid (PFDoA)	--	<2.0	<1.9	<0.94	<0.96	<1.9	<1.8	<0.94	<0.98	<2.1	<1.8	<0.98	<0.94	<1.8	<1.8	<0.97	<0.96
Perfluorotridecanoic acid (PFTriA)	--	<2.0	<1.9	<0.94	<0.96	<1.9	<1.8	<0.94	<0.98	<2.1	<1.8	<0.98	<0.94	<0.89	<1.8	<0.97	<0.96
Perfluorotetradecanoic acid (PFTeA)	--	<2.0	<1.9	<0.94	<0.96	<1.9	<1.8	<0.94	<0.98	<2.1	<1.8	<0.98	<0.94	<0.89	<1.8	<0.97	<0.96
Perfluorobutanesulfonic acid (PFBS)	--	<2.0	<1.9	0.75 J	0.89 J	<1.9	0.95 J	1.8	1.9	<2.1	<1.8	<0.98	<0.94	1.1	<1.8	0.65 J	0.78 J
Perfluorohexanesulfonic acid (PFHxS)	--	<2.0	<1.9	0.43 J	0.43 J	<1.9	<1.8	0.64 J	0.85 J	<2.1	<1.8	<0.98	<0.94	<1.8	<1.8	0.31 J	0.42 J
Perfluoroheptanesulfonic acid (PFHpS)	--	<2.0	NA	<0.94	<0.96	<1.9	NA	<0.94	<0.98	<2.1	NA	<0.98	<0.94	<1.8	NA	<0.97	<0.96
Perfluorodecanesulfonic acid (PFDS)	--	<2.0	NA	<0.94	<0.96	<1.9	NA	<0.94	<0.98	<2.1	NA	<0.98	<0.94	<1.8	NA	<0.97	<0.96
Perfluorooctanesulfonamide (PFOSA)	--	<2.0	NA	<0.94	<0.96	<1.9	NA	<0.94	<0.98	<2.1	NA	0.33 J	<0.94	<2.7	NA	<0.97	<0.96
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	<5.0	<1.9	<0.94	<0.96	<4.7	<1.8	<0.94	<0.98	<5.2	<1.8	<0.98	<0.94	<2.7	<1.8	<0.97	<0.96
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	<5.0	<1.9	<0.94	<0.96	<4.7	<1.8	<0.94	<0.98	<5.2	<1.8	<0.98	<0.94	<2.7	<1.8	<0.97	<0.96
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	<5.0	NA	1.6 J	<3.8	<4.7	NA	<3.8	<3.9	<5.2	NA	<3.9	<3.7	<1.8	NA	1.1 J	<3.8
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	<2.0	NA	<3.7	<3.8	<1.9	NA	<3.8	<3.9	<2.1	NA	<3.9	<3.7	<5.3	NA	<3.9	<3.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA	<1.9	<3.7	<3.8	NA	<1.8	<3.8	<3.9	NA	<1.8	<3.9	<3.7	NA	<1.8	<3.9	<3.8
11C1-PF3OUdS (F53B Major)	--	NA	<1.9	<3.7	<3.8	NA	<1.8	<3.8	<3.9	NA	<1.8	<3.9	<3.7	NA	<1.8	<3.9	<3.8
9C1-PF3ONS (F53B Minor)	--	NA	<1.9	<3.7	<3.8	NA	<1.8	<3.8	<3.9	NA	<1.8	<3.9	<3.7	NA	<1.8	<3.9	<3.8
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	--	NA	<1.9	<3.7	<3.8	NA	<1.8	<3.8	<3.9	NA	<1.8	<3.9	<3.7	NA	<1.8	<3.9	<3.8

Notes:

¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)

Concentrations are in micrograms per liter (µg/L) or nanograms per liter (ng/L), as indicated.

Detected concentrations are in bold font.

Results greater than the NYSDEC AWQS/GV are shaded in gray.

Definitions:

NA - Not analyzed

J - Reported result was an estimated value with an unknown bias

E - Result exceeded calibration range

I - Value is EMPC (estimated maximum possible concentration)

D - Sample analyzed at a dilution

B-07 - Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank

Z-01 - Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank

Table 3
Emerging Contaminant Sampling Results
Groundwater Monitoring (September 2024)
Former NOW Corporation Facility (Site No. 314008), Town of Clinton, New York

Analyte	NYSDEC AWQS/GV ¹	MW-12S			OW-6					Equipment Blank				Field Blank			
		3/3/2022	7/12/2023	9/11/2024	12/16/2020	3/4/2022	3/4/2022	7/13/2023	9/12/2024	5/1/2019	12/16/2020	12/21/2020	12/22/2020	12/21/2020	3/2/2022	7/13/2023	9/11/2024
Semivolatile Organic Compounds (SVOCs) (µg/L)							DUP										
1,4-Dioxane	0.35	<0.20	<0.22	<0.20	<0.20	<0.21	NA	<0.20	<0.20	NA	NA	NA	<0.19	<0.19	NA	NA	NA
Per- and Polyfluoroalkyl Substances (PFAS) (ng/L)																	
Perfluorooctanoic acid (PFOA)	6.7	7.8	7.2	8.5	6.0	3.4	3.1	7.8	60	<0.88	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorooctanesulfonic acid (PFOS)	2.7	1.5 J	1.3 J	1.2	<1.8	<1.9	<1.9	<0.96	0.98	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorobutanoic acid (PFBA)	--	NA	6.9 J	5.6	<4.6	NA	NA	<3.8	12	<5.3	<4.8	<4.6	<5.0	<4.7	NA	<3.8	<4.1
Perfluoropentanoic acid (PFPeA)	--	NA	2.4 J	2.7	<1.8	NA	NA	<1.9	5.4	<5.3	<1.9	<1.9	<2.0	<1.9	NA	<1.9	<2.1
Perfluorohexanoic acid (PFHxA)	--	1.1 J	2.0 J	2.3	<1.8	<1.9	<1.9	0.26 J	11	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluoroheptanoic acid (PFHpA)	--	1.1 J	1.4 J	1.5	<1.8	<1.9	<1.9	0.43 J	8.8	<0.88	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorononanoic acid (PFNA)	--	<2.0	<2.0	0.34 J	<1.8	<1.9	<1.9	<0.96	0.49 J	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorodecanoic acid (PFDA)	--	<2.0	<2.0	<0.95	<1.8	<1.9	<1.9	<0.96	<0.91	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluoroundecanoic acid (PFUnA)	--	<2.0	<2.0	<0.95	<1.8	<1.9	<1.9	<0.96	<0.91	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorododecanoic acid (PFDoA)	--	<2.0	<2.0	<0.95	<1.8	<1.9	<1.9	<0.96	<0.91	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorotridecanoic acid (PFTriA)	--	<2.0	<2.0	<0.95	<1.8	<1.9	<1.9	<0.96	<0.91	<0.88	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorotetradecanoic acid (PFTeA)	--	<2.0	<2.0	<0.95	<1.8	<1.9	<1.9	<0.96	<0.91	<0.88	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorobutanesulfonic acid (PFBS)	--	0.96 J	1.2 J	1.4	<1.8	<1.9	<1.9	0.39 J	1.4	<0.88	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluorohexanesulfonic acid (PFHxS)	--	<2.0	0.44 J	0.31 J	<1.8	<1.9	<1.9	0.24 J	0.5 J	<1.8	<1.9	<1.9	<2.0	<1.9	<1.8	<0.96	<1
Perfluoroheptanesulfonic acid (PFHpS)	--	NA	<2.0	<0.95	<1.8	NA	NA	<0.96	<0.91	<1.8	<1.9	<1.9	<2.0	<1.9	NA	<0.96	<1
Perfluorodecanesulfonic acid (PFDS)	--	NA	<2.0	<0.95	<1.8	NA	NA	<0.96	<0.91	<1.8	<1.9	<1.9	<2.0	<1.9	NA	<0.96	<1
Perfluorooctanesulfonamide (PFOSA)	--	NA	0.81 J	1.1	<1.8	NA	NA	<0.96	<0.91	<2.6	<1.9	<1.9	<2.0	<1.9	NA	<0.96	<1
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	<2.0	<2.0	<0.95	<4.6	<1.9	<1.9	<0.96	<0.91	<2.6	<4.8	<4.6	<5.0	<4.7	<1.8	<0.96	<1
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	<2.0	<2.0	<0.95	<4.6	<1.9	<1.9	<0.96	<0.91	<2.6	<4.8	<4.6	<5.0	<4.7	<1.8	<0.96	<1
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	NA	<8.1	<3.8	<4.6	NA	NA	<3.8	<3.7	<1.8	<4.8	<4.6	<5.0	<4.7	NA	<3.8	<4.1
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NA	<8.1	<3.8	<1.8	NA	NA	<3.8	<3.7	<5.3	<1.9	<1.9	<2.0	<1.9	NA	<3.8	<4.1
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	<2.0	<8.1	<3.8	NA	<1.9	<1.9	<3.8	<3.7	NA	NA	NA	NA	NA	<1.8	<3.8	<4.1
11C1-PF3OUdS (F53B Major)	--	<2.0	<8.1	<3.8	NA	<1.9	<1.9	<3.8	<3.7	NA	NA	NA	NA	NA	<1.8	<3.8	<4.1
9C1-PF3ONS (F53B Minor)	--	<2.0	<8.1	<3.8	NA	<1.9	<1.9	<3.8	<3.7	NA	NA	NA	NA	NA	<1.8	<3.8	<4.1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	--	<2.0	<8.1	<3.8	NA	<1.9	<1.9	<3.8	<3.7	NA	NA	NA	NA	NA	<1.8	<3.8	<4.1

Notes:

¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Standards and Guidance Values (AWQS/GV) and Groundwater Effluent Limitations (TOGS 1.1.1)

Concentrations are in micrograms per liter (µg/L) or nanograms per liter (ng/L), as indicated.

Detected concentrations are in bold font.

Results greater than the NYSDEC AWQS/GV are shaded in gray.

Definitions:

NA - Not analyzed

J - Reported result was an estimated value with an unknown bias

E - Result exceeded calibration range

I - Value is EMPC (estimated maximum possible concentration)

D - Sample analyzed at a dilution

B-07 - Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank

Z-01 - Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank

Appendix A Low Flow Groundwater Purging/Sampling Logs

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-1

Date: 9/10/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, bladder pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164	Tubing Type:	HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	--------------	------	-----------------------------------

Measuring Point:	top of PVC casing	Initial Depth to Water:	12.52	Depth to Well Bottom:	46.7	Well Diameter:	Screen Length:
------------------	-------------------	-------------------------	-------	-----------------------	------	----------------	----------------

Casing Type:	PVC	Volume in 1 Well Casing (gallons):	Estimated Purge Volume (gallons):	2.0
--------------	-----	------------------------------------	-----------------------------------	-----

Sample ID:	MW-1-09102024	Sample Time:	1500	QA/QC:	Yes, Dup
------------	---------------	--------------	------	--------	----------

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---
------------	-----	-----	----	-----	-----	-----------	-----

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Black floaters to start

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-2

Date: 9/11/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/
Sampling
Device: Low flow, bladder pump
YSI Professional Plus 6790
Geotech Turbidity Meter 5962 Tubing Type: HDPE Pump/Tubing
Inlet
Location:

Measuring
Point: top of PVC casing Initial Depth
to Water: 38.21 Depth to
Well Bottom: 77 Well Diameter: Screen
Length:

Casing Type: PVC Volume in 1
Well Casing
(gallons): Estimated
Purge
Volume
(gallons): 8.8

Sample ID: MW-2-09112024 Sample
Time: 1735 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1600	7.30	15.6	0.457	6.76	3.3	11.9	275	33.75
1605	7.19	10.8	0.416	4.12	36.1	-149.5	275	34.5
1610	7.22	10.7	0.410	3.41	31.6	-167.5	275	34.85
1615	7.31	10.7	0.394	2.75	12.2	-180.2	275	35.2
1620	7.31	10.7	0.388	2.11	10.1	-187.5	275	35.25
1625	7.32	10.8	0.387	1.74	6.35	-193.5	275	35.45
1630	7.33	10.7	0.386	1.77	5.38	-196.7	275	35.55
1635	7.34	10.8	0.384	1.77	2.27	-198.4	275	35.8
1640	7.35	10.7	0.384	1.25	0.02	-199.8	275	35.89
1645	7.33	10.7	0.384	1.08	2.1	-202.4	275	35.94
1650	7.34	10.6	0.382	1.01	2.1	-203.9	275	36.1
1655	7.35	10.7	0.381	0.84	0.39	-206.8	275	36.12
1700	7.35	10.6	0.381	0.72	0.39	-207.9	275	36.3
1705	7.35	10.6	0.381	0.67	0.39	-210.1	275	36.28
1710	7.37	11.8	0.392	0.58	0.02	-211.9	200	35.72
1715	7.35	11.8	0.391	0.57	2.13	-210.9	200	35.69
1720	7.35	11.7	0.387	0.52	2.13	-211.2	200	35.63
1725	7.35	11.8	0.388	0.46	0.67	-213.6	200	35.55
1730	7.35	11.7	0.388	0.47	0.67	-216.2	200	35.52
1735	7.36	11.8	0.389	0.46	0.11	-218.4	200	35.51
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-3D

Date: 9/12/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, bladder pump YSI Professional Plus 6790 Geotech Turbidity Meter 8164	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 38.21 Depth to Well Bottom: 90.2 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>1.75</u>
--------------	------------	--	-----------------------------	--	-------------

Sample ID: MW-3D-09122024 Sample Time: 1200 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-3S

Date: 9/11/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/	Low flow, bladder pump			Pump/Tubing
Sampling	YSI Professional Plus 6790			Inlet
Device:	Geotech Turbidity Meter 5962	Tubing Type:	HDPE	Location:

Measuring Point:	top of PVC casing	Initial Depth to Water:	28.16	Depth to Well Bottom:	53	Well Diameter:	Screen Length:
------------------	-------------------	-------------------------	-------	-----------------------	----	----------------	----------------

Casing Type:	PVC	Volume in 1 Well Casing (gallons):	Estimated Purge Volume (gallons):	3.5
--------------	-----	------------------------------------	-----------------------------------	-----

Sample ID:	MW-3S-09112024	Sample Time:	1500	QA/QC:	none
------------	----------------	--------------	------	--------	------

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_M = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-4D
 Date: 9/11/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/
Sampling
Device: Low flow, bladder pump
YSI Professional Plus 6790
Geotech Turbidity Meter 5962 Tubing Type: HDPE Pump/Tubing
Inlet
Location: _____
 Measuring
Point: top of PVC casing Initial Depth
to Water: 22.66 Depth to
Well Bottom: 103 Well Diameter: _____ Screen
Length: _____
 Casing Type: PVC Volume in 1
Well Casing
(gallons): _____ Estimated
Purge
Volume
(gallons): 7.0

Sample ID: MW-4D-09112024 Sample
Time: 1130 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
0930	7.41	13.2	0.377	0.39	0.02	-245.3	206	22.94
0935	7.29	13	0.340	0.16	148	-289.2	206	23.19
0940	7.33	13	0.337	0.11	147	-306	206	23.25
0945	7.37	13	0.335	0.08	122	-315	206	23.25
0950	7.4	13	0.334	0.07	122	-343.6	206	23.29
0955	7.41	12.9	0.334	0.07	101	-338.1	206	23.26
1000	7.42	12.9	0.334	0.07	104	-322.1	206	23.29
1005	7.43	12.7	0.334	0.07	85.4	-304.4	206	23.27
1010	7.44	12.7	0.333	0.07	74.3	-295.1	206	23.28
1015	7.45	12.8	0.335	0.07	67.6	-291.9	206	23.29
1020	7.45	12.8	0.336	0.07	57.6	-281.6	206	23.28
1025	7.45	12.8	0.337	0.07	46.9	-294.1	206	23.26
1030	7.45	12.8	0.338	0.07	40.4	-170	206	23.25
1035	7.45	12.8	0.338	0.02	38.8	-170	206	23.28
1040	7.46	12.8	0.338	0.00	31.2	-148.2	206	23.26
1045	7.46	12.8	0.337	0.00	24.6	-115.1	206	23.28
1050	7.24	12.8	0.336	0.05	21.8	-203.4	206	23.27
1055	7.4	12.8	0.337	0.00	21.6	-257.1	206	23.28
1100	7.46	12.7	0.337	0.00	23.7	-219.2	206	23.29
1105	7.46	12.8	0.337	0.00	17.1	-185	206	23.25
1110	7.1	12.7	0.337	0.00	14.4	-240	206	23.27
1115	7.28	12.8	0.337	0.00	11.1	-341	206	23.3
1120	7.4	12.8	0.338	0.00	13.2	-342.6	206	23.3
1125	7.24	12.8	0.339	0.09	13	-347.1	206	23.28
1130	7.14	12.9	0.342	0.00	11	-354	206	23.29
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
 4 inch diameter well = 2470 ml/ft ($vol_{wt} = \pi r^2 h$)

Remarks: YSI occasionally displays erroneous readings

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-4S

Date: 9/11/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 5962	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 22.83 Depth to Well Bottom: 58 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>2.0</u>
--------------	------------	--	-----------------------------	--	------------

Sample ID: MW-4S-09112024 Sample Time: 1245 QA/QC: none

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{CY}} = \pi r^2 h$)

Remarks:

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-5

Date: 9/10/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164				Tubing Type:	HDPE	Pump/Tubing Inlet Location:		
Measuring Point:	top of PVC casing	Initial Depth to Water:	19.28	Depth to Well Bottom:	56.4	Well Diameter:		Screen Length:	
Casing Type:	PVC			Volume in 1 Well Casing (gallons):			Estimated Purge Volume (gallons):	2.0	

Sample ID: MW-5-09102024 Sample Time: 1320 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

[illegible]

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-6D

Date: 9/12/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 5962	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 9.78 Depth to Well Bottom: 72 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>2.5</u>
--------------	------------	------------------------------------	-----------------------------	-----------------------------------	------------

Sample ID: MW-6D-09122024 Sample Time: 1132 QA/QC: none

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

	TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
	1057	7.02	14.5	0.396	1.55	0.02	-49.1	200	11.6
	1102	7.05	14.4	0.397	0.19	1.69	-63.4	200	12.6
	1107	7.12	14.2	0.398	0.06	2.68	-71.4	200	13.2
	0112	7.22	14.5	0.407	0.05	2.36	-77.8	150	13.4
	1117	7.18	14.4	0.414	0.01	2.03	-76.9	150	13.42
	1122	7.16	14.3	0.421	0.01	0.02	-75.8	150	13.42
	1127	7.18	14.3	0.424	0.01	0.02	-76.8	150	13.42
	1132	7.19	14.2	0.424	0.01	0.02	-77.1	150	13.42
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{CY}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-6S

Date: 9/12/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 5962	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 8.06 Depth to Well Bottom: 27 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>3.7</u>
--------------	------------	--	-----------------------------	--	------------

Sample ID: MW-6S-09122024 Sample Time: 1410 QA/QC: none

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-7D

Date: 9/10/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 5962	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point:	top of PVC casing	Initial Depth to Water:	11.3	Depth to Well Bottom:	81.55	Well Diameter:		Screen Length:	
------------------	-------------------	-------------------------	------	-----------------------	-------	----------------	--	----------------	--

Casing Type: <u>PVC</u>	Volume in 1 Well Casing (gallons): <u> </u>	Estimated Purge Volume (gallons): <u>3.3</u>
-------------------------	--	---

Sample ID: MW-7D-09102024 Sample Time: 1530 QA/QC: none

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cy} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-7S

Date: 9/10/2024 Sampling Personnel: Chris French and Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 5962	Tubing Type:	HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	--------------	------	-----------------------------------

Measuring Point:	top of PVC casing	Initial Depth to Water:	10.45	Depth to Well Bottom:	33.72	Well Diameter:	Screen Length:
------------------	-------------------	-------------------------	-------	-----------------------	-------	----------------	----------------

Casing Type: <u>PVC</u>	Volume in 1 Well Casing (gallons): _____	Estimated Purge Volume (gallons): <u>2.6</u>
-------------------------	--	--

Sample ID:	MW-7S-09102024	Sample Time:	1322	QA/QC:	Yes, MS/MSD
------------	----------------	--------------	------	--------	-------------

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1242	6.37	15.4	0.600	4.04	22.1	70.1	150	10.6
1247	5.64	14.9	0.600	0.26	1.60	26	150	10.61
1252	5.25	14.8	0.600	0.18	1.10	-78	150	10.63
1257	6.81	14.8	0.600	0.18	0.80	-174.9	150	10.64
1302	6.82	14.7	0.600	0.17	0.40	-173.7	150	10.64
1307	6.82	14.7	0.600	0.15	0.60	-175.1	150	10.65
1312	6.79	14.7	0.600	0.13	0.60	-161.9	150	10.65
1317	6.79	14.8	0.600	0.13	0.21	-157.6	150	10.65
1322	6.79	14.8	0.600	0.13	0.02	-153.7	150	10.65
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-8

Date: 9/11/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164	Tubing Type:	HDPE	Pump/Tubing Inlet Location:	
---------------------------------	--	--------------	------	-----------------------------------	--

Measuring Point:	top of PVC casing	Initial Depth to Water:	14.02	Depth to Well Bottom:	52.56	Well Diameter:		Screen Length:	
------------------	-------------------	-------------------------	-------	-----------------------	-------	----------------	--	----------------	--

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>1.8</u>
--------------	------------	------------------------------------	-----------------------------	-----------------------------------	------------

Sample ID: **MW-8-09112024** Sample Time: 1815 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1740	7.47	12.9	0.312	0.21	19.1	-68.3	250	14.19
1745	7.47	12.8	0.309	0.14	12.3	-85	250	14.19
1750	7.53	12.8	0.308	0.15	3.9	-79.4	250	14.29
1755	7.53	12.7	0.307	0.13	1.9	-74.3	250	14.3
1800	7.59	12.7	0.305	0.11	0.02	-72.4	250	14.3
1805	7.59	12.7	0.304	0.10	0.02	-68.8	250	14.3
1810	7.59	12.7	0.303	0.10	0.02	-67.9	250	14.3
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-9

Date: 9/11/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164				Tubing Type:	HDPE	Pump/Tubing Inlet Location:		
Measuring Point:	top of PVC casing	Initial Depth to Water:	5.8	Depth to Well Bottom:	34	Well Diameter:		Screen Length:	
Casing Type:	PVC			Volume in 1 Well Casing (gallons):			Estimated Purge Volume (gallons):	1.0	

Sample ID: MW-9-09112024 Sample Time: 1650 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1615	6.86	15.5	2.270	0.55	3.54	152.5	150	6.29
1620	6.82	15.4	2.260	0.32	1.24	146.1	150	6.46
1625	6.85	15.5	2.270	0.26	0.68	139	110	6.48
1630	6.87	15.5	2.260	0.23	0.68	135.5	110	6.48
1635	6.87	15.5	2.260	0.21	2.46	130.8	110	6.48
1640	6.87	15.5	2.260	0.21	2.16	130.1	110	6.48
1645	6.87	15.5	2.260	0.21	2.15	128.9	110	6.48
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 mL/ft; 1 inch diameter well = 154 mL/ft; 2 inch diameter well = 617 mL/ft;
4 inch diameter well = 2470 mL/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Adjusted flow at 1620 to 110 mL/min

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-10

Date: 9/11/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164	Tubing Type:	HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	--------------	------	-----------------------------------

Measuring Point:	top of PVC casing	Initial Depth to Water:	12.79	Depth to Well Bottom:	52.05	Well Diameter:	Screen Length:
------------------	-------------------	-------------------------	-------	-----------------------	-------	----------------	----------------

Casing Type:	PVC	Volume in 1 Well Casing (gallons):	Estimated Purge Volume (gallons):	1.75
--------------	-----	------------------------------------	-----------------------------------	------

Sample ID: **MW-10-09112024** Sample Time: 1515 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($v_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-11

Date: 9/12/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 8164	Tubing Type:	HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	--------------	------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 22.46 Depth to Well Bottom: 89 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>1.0</u>
--------------	------------	--	-----------------------------	--	------------

Sample ID: MW-11-09122024 Sample Time: 1435 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1400	7.82	15.5	0.318	0.02	5.94	-37	150	23.3
1405	7.87	15.7	0.319	0.02	8.20	-48.4	100	23.54
1410	7.97	15.5	0.321	0.01	10.4	-67.9	100	23.62
1415	7.92	15.7	0.321	0.02	8.22	-76.1	100	23.78
1420	7.92	15.5	0.327	0.01	8.22	-94.2	100	23.82
1425	7.92	15.5	0.320	0.01	8.20	-96.6	100	23.8
1430	7.92	15.5	0.321	0.02	8.20	-100	100	23.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: MW-12D

Date: 9/11/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164	Tubing Type:	HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	--------------	------	-----------------------------------

Measuring Point:	top of PVC casing	Initial Depth to Water:	12.88	Depth to Well Bottom:	63.75	Well Diameter:	Screen Length:
------------------	-------------------	-------------------------	-------	-----------------------	-------	----------------	----------------

Casing Type:	PVC	Volume in 1 Well Casing (gallons):	Estimated Purge Volume (gallons):	1.65
--------------	-----	------------------------------------	-----------------------------------	------

Sample ID: **MW-12D-09112024** Sample Time: 1240 QA/QC: none

Sample Parameters: SW-846 8260D TCL VOCs, 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1155	7.41	15.6	0.860	7.30	4.68	62.4	150	13.83
1200	7.34	15.3	0.770	6.55	5.47	84.3	150	14.2
1205	7.45	15.8	0.750	6.39	4.80	92.8	100	14.27
1210	7.43	15.7	0.760	6.14	3.52	96.1	100	14.3
1215	7.41	15.6	0.780	6.06	2.13	98.4	100	14.3
1220	7.41	15.6	0.780	6.04	0.85	95.5	100	14.3
1225	7.38	15.4	0.750	5.09	3.22	80.1	100	14.3
1230	7.38	15.4	0.750	5.08	3.21	80.2	100	14.3
1235	7.38	15.4	0.750	5.02	3.14	79.2	100	14.3
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: At 1200, adjusted flow to 100 mL/min

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: **MW-12S**

Date: 9/11/2024 Sampling Personnel: Steve Gray Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 3667 Geotech Turbidity Meter 8164				Tubing Type:	HDPE	Pump/Tubing Inlet Location:		
Measuring Point:	top of PVC casing	Initial Depth to Water:	11.39	Depth to Well Bottom:	18.5	Well Diameter:		Screen Length:	
Casing Type:	PVC			Volume in 1 Well Casing (gallons):		Estimated Purge Volume (gallons):	1.5		

Sample ID: MW-12S-09112024 Sample Time: 1340 QA/QC: none
Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
1305	7.32	17.3	0.810	0.33	95.5	-146.2	150	11.6
1310	7.52	17.6	0.780	0.16	80.4	-184.6	100	12.25
1315	7.52	17.6	0.790	0.15	61.5	-188.1	100	12.25
1320	7.52	17.6	0.790	0.16	58.5	-187.5	100	12.25
1325	7.52	17.6	0.790	0.17	58.1	-186.4	100	12.25
1330	7.52	17.6	0.780	0.18	58.4	-187.5	100	12.25
1335	7.52	17.6	0.780	0.18	57.9	-188.9	100	12.25
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60631041 Site: 2092 Route 9G, Staatsburg, NY Well I.D.: OW-6

Date: 9/12/2024 Sampling Personnel: Ray Heller Company: AECOM

Purging/ Sampling Device:	Low flow, peristaltic pump YSI Professional Plus 6790 Geotech Turbidity Meter 8164	Tubing Type: HDPE	Pump/Tubing Inlet Location:
---------------------------------	--	-------------------	-----------------------------------

Measuring Point: top of PVC casing Initial Depth to Water: 7.37 Depth to Well Bottom: 94.5 Well Diameter: _____ Screen Length: _____

Casing Type:	<u>PVC</u>	Volume in 1 Well Casing (gallons):	<u> </u>	Estimated Purge Volume (gallons):	<u>4.7</u>
--------------	------------	--	-----------------------------	--	------------

Sample ID: OW-6-09122024 Sample Time: 1005 QA/QC: none

Sample Parameters: 1633 PFAS, SW-846 8270E SIM 1,4-Dioxane

PURGE PARAMETERS

	TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (feet)
	0905	-1.0	13.4	0.220	0.25	0.02	223.2	220	7.77
	0910	-0.50	13.3	0.205	0.39	0.02	206.1	220	7.78
	0915	0.00	13.3	0.202	0.36	0.02	185.4	220	7.78
	0920	0.50	13.4	0.207	0.36	0.02	161.7	180	7.77
	0925	0.50	13.4	0.208	0.32	0.02	151.9	180	7.75
	0930	6.47	13.7	0.322	0.62	0.02	51.7	180	7.74
	0935	6.39	13.5	0.251	0.37	0.02	64.4	180	7.74
	0940	6.4	13.5	0.200	0.11	0.02	89.6	180	7.74
	0945	6.44	13.5	0.199	0.10	0.02	94.1	180	7.74
	0950	6.45	13.5	0.198	0.08	0.02	100	180	7.74
	0955	6.46	13.5	0.197	0.06	0.40	106	180	7.74
	1000	6.47	13.5	0.198	0.06	2.24	107	180	7.74
	1005	6.48	13.5	0.198	0.06	1.44	109.5	180	7.74
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{CY} = \pi r^2 h$)

Remarks: Replaced YSI meter after 0925 due to issues

Appendix B Green and Sustainable Remediation Best Management Practices

Green Remediation Best Management Practices: Site Investigation and Environmental Monitoring

A fact sheet about the concepts and tools for using best management practices to reduce the environmental footprint of activities associated with assessing or remediating contaminated sites

www.cluin.org/greenremediation

Overview	Page 1
Project Planning	Page 1
Field Activities	Page 2
Materials and Waste Management	Page 3
Laboratory Support	Page 4

The U.S. Environmental Protection Agency (EPA) *Principles for Greener Cleanups* outline the Agency's policy for evaluating and minimizing the environmental footprint of activities involved in cleaning up contaminated sites.¹ Best management practices (BMPs) of green remediation involve specific activities to address the core elements of greener cleanups:

- ▶ Reduce total energy use and increase the percentage of energy from renewable resources.
- ▶ Reduce air pollutants and greenhouse gas emissions.
- ▶ Reduce water use and preserve water quality.
- ▶ Conserve material resources and reduce waste.
- ▶ Protect land and ecosystem services.



Overview

The need for site investigation is common to cleanups under any regulatory program. Investigative activities can occur at all points in the cleanup process, from initial site assessment through waste site closeout. A site investigation generally is undertaken to:

- Confirm the presence or absence of specific contaminants.
- Delineate the nature and extent of environmental contamination.
- Identify contaminant sources.
- Provide data for assessing potential risk to human health or the environment.
- Gather data for determining if a remedial or removal action should be taken.
- Identify site characteristics affecting remedial design, construction or operation.

Site investigation as well as long-term environmental monitoring typically involve a range of technologies and techniques to gather field measurements and collect analytical samples of soil and groundwater and often surface water, sediment, soil gas or indoor air. Investigation also may involve searching for underground storage tanks, drums or other buried objects, or evaluating demolition material containing asbestos, lead-based paint or other toxic products. Many of the same techniques and technologies may be used in later stages of a cleanup to evaluate ongoing performance of a remedy; determine the need for any modification to a remedial system; or track factors influencing anticipated closeout of a cleanup project. At certain points, site investigation and environmental monitoring both rely on data analysis or verification conducted by offsite laboratories.

Project Planning

Integration of green remediation BMPs early during the project design phase will help reduce cumulative environmental footprints of a cleanup. The BMP integration process involves selecting BMPs most suitable for the site's unique contamination scenario, potential remedies and anticipated site reuse. BMPs to be considered when planning a site investigation include:

- ◆ Schedule activities for suitable seasons to reduce the amount of fuel needed for heating or cooling equipment and supplies.
- ◆ Select service providers, product suppliers and analytical laboratories from the local area and consolidate the service and delivery schedules.



Water monitoring at the New Idria Mercury Mine Superfund site in California involves use of time-interval sampling devices powered by solar energy. Collected sampling data are transmitted via satellite to a website accessible by project staff. This approach supplies a renewable source of onsite energy and reduces the frequency of staff visits to this remote site. Ongoing investigation of this site led to removal actions in 2011 and 2015.

The *ASTM Standard Guide for Greener Cleanups* outlines a process for identifying, screening and selecting BMPs to minimize the environmental footprint of site-specific cleanup activities.²

- ◆ Identify local sources of trucks and machinery equipped with advanced emission controls and of cleaner alternative fuels.³
- ◆ Identify the nearest facility to be used for disposing of hazardous waste.
- ◆ Establish electronic networks for data transfers, team decisions and document preparation, and select electronic products through tools such as the Electronic Product Environmental Assessment Tool (EPEAT).⁴
- ◆ Reduce travel through increased teleconferencing and compressed work hours.
- ◆ Select facilities with green policies for worker accommodations and meetings.
- ◆ Integrate sources of onsite renewable energy to power hand-held devices, portable equipment, and stationery monitoring systems.

Development of a well-conceived dynamic sampling plan can help assure that data truly representing a site are collected at the project onset, consequently minimizing remobilization of field crews and equipment. Systematic planning, which is a critical component of optimized strategies for investigating hazardous waste sites, involves identifying key decisions to be made, developing a conceptual site model (CSM) to support decision making, and evaluating decision uncertainty along with approaches for actively managing that uncertainty. The CSM combines analytical data with historical information to identify data gaps and allows for refinement as additional data become available.

Field Activities

Fewer field mobilizations typically lead to reduced fuel consumption and associated air emissions and often less disturbance to the land and local ecosystems. BMPs that can help minimize mobilization during site investigation and environmental monitoring include:

- ◆ Use in situ data loggers to monitor water quality parameters and water levels, as an alternative to frequent sample collection or physical measurement.
- ◆ Install solar-powered telemetry systems to remotely transmit logging data.
- ◆ Use dynamic work plans involving real-time field measurements, which can immediately provide data to help determine the next activity during a given sampling event.

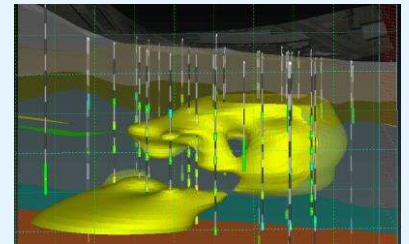
Technologies for collecting real-time data are typically non-invasive or minimally invasive; examples include:

- Direct sensing equipment such as the membrane interface probe, laser-induced or X-ray fluorescence sensors and cone penetration tests.
- Immunoassay, colorimetric and other field test kits to screen soil and groundwater contaminants.
- Portable vapor/gas detection systems using photoionization or flame ionization for screening purposes.
- Soil gas surveys involving instruments such as SUMMA canisters to determine the presence, composition and distribution of volatile organic compounds (VOCs) in the vadose zone and water table.
- Portable gas chromatography/mass spectrometry for analyzing fuel-related compounds and VOCs in soil and groundwater.
- Ground penetrating radar, magnetometers, and other geophysical survey instrumentation to locate metal objects and delineate disposal areas.

Other BMPs typically applying to site investigation and environmental monitoring focus on conserving and protecting water and using environmentally friendly products, such as:

- ◆ Deploy passive sampling devices, which involve no well purging.
- ◆ Use supplemental techniques to map the source and extent of a contaminated groundwater plume, such as analyzing core samples taken from rapid-growing trees.
- ◆ Employ a closed-loop graywater washing system to decontaminate trucks or machinery.
- ◆ Steam-clean or use phosphate-free detergents instead of organic solvents or acids to decontaminate sampling equipment.
- ◆ Use plastic sheeting or portable wash pads to contain and collect decontamination fluids and prevent their entrance into storm drains or groundwater.

Product and service acquisitions provide opportunities to integrate BMPs when planning a site investigation. New contracts awarded by EPA for remediation environmental services at Superfund sites, for example, now require contractors to explore and implement strategies to reduce energy and water usage, promote carbon neutrality, promote industrial materials reuse and recycling, and protect and preserve land resources.⁵



At Well 12A within the Commencement Bay-South Tacoma Channel Superfund site in Washington, high-resolution characterization data and 3D visualization were used to develop a robust CSM. The CSM helped quantify contaminant mass in soil and groundwater, delineate discrete treatment zones and prioritize remediation design approaches. This refined, minimally invasive strategy for site characterization significantly accelerated site cleanup, saving an estimated \$1 million in treatment costs. Additionally, use of passive sampling devices for long-term monitoring avoided generation of purge water while saving more than \$100,000 in the first five years of monitoring alone.

- ◆ Treat potentially contaminated purge water through use of technologies such as activated carbon filtration prior to discharge to storm drains or waterways.
- ◆ Quickly restore disturbed areas of vegetation serving as stormwater controls.
- ◆ Use biodegradable lubricants and hydraulic fluids.
- ◆ Choose groundwater monitoring equipment made of noncorrosive material.

Yet other BMPs concern design and installation of groundwater wells to be used for sampling and monitoring. Relevant BMPs include:

- ◆ Design investigative wells in ways that allow for maximum reuse during remediation or to meet water demands of ongoing or future site activities.
- ◆ Integrate a horizontal well network where feasible as an alternative to a greater number of vertical wells.
- ◆ Choose a multi-port sampling system in wells intended for monitoring, to minimize the total number of wells needing to be installed.
- ◆ Use minimally invasive drilling techniques such as direct-push or sonic technology whenever feasible to reduce drilling duration, avoid or minimize use of water, and prevent or reduce generation of cuttings and associated disposal of investigation-derived waste (IDW).
- ◆ Use dual tube technology during drilling, which allows collection of continuous soil cores and later reuse of the same boreholes for site investigation, remediation or monitoring.
- ◆ Use an electric top drive system to minimize use of hydraulic fluids when rotary drills are used.
- ◆ Segregate and screen drill cuttings for potential use such as onsite backfill if allowed under applicable state or federal cleanup programs; use of an organic vapor analyzer may significantly improve or accelerate the screening process.
- ◆ Use environmentally friendly pipe dope for drill pipes and casings.
- ◆ Emplace mats to limit ground surface disturbance at drilling locations.

Materials and Waste Management

Site investigation and environmental monitoring activities typically involve using an assortment of manufactured products such as personal protective equipment (PPE), sample containers and routine business materials. BMPs concerning green purchasing of such products include:

- ◆ Choose products with recycled and biobased contents such as agricultural or forestry waste instead of petroleum-based ingredients.
- ◆ Choose products, packing material and equipment that have reuse or recycling potential.
- ◆ Choose products manufactured through processes involving nontoxic chemical alternatives.

IDW generation and management frequently account for a significant portion of the environmental footprint of site investigation. IDW includes drill cuttings, well purge water, spent carbon from filtration equipment, reagents used with environmental field test kits, non-reusable or contaminated PPE and solutions for decontaminating non-disposable PPE and equipment. Reducing the volume of generated IDW will decrease the need for waste containers such as 55-gallon storage drums and for treating IDW onsite or disposing of it at a waste facility. Recommended BMPs to reduce the volume of routine waste or IDW, while often decreasing materials consumption, include:

- ◆ Compress the number of days needed for a given round of sampling.
- ◆ Minimize the need for disposable single-use items such as plastic bags.
- ◆ Designate collection points for items that are locally recyclable, such as metal, plastic or glass containers and paper or cardboard.
- ◆ Select test kits that generate less waste, such as soil samplers with reusable handles for coring syringes.
- ◆ Collect hydraulic fluids and lubricants for recycling at suitable local facilities.
- ◆ Maximize use of environmentally friendly additives such as ascorbic acid to preserve or stabilize collected samples, if compatible with target analytes and anticipated analytical methods.¹⁰



Use of passive diffusion bag (PDB) sampling techniques in 56 wells at the Joint Base Lewis McCord Superfund site in Washington significantly reduced the environmental footprint of sampling activities. When compared to using low-flow sampling techniques in other wells, PDB use achieved a:

- 54% reduction in energy used.
- 55% reduction in greenhouse gas emissions.
- 63% reduction in criteria pollutants.

The footprint reductions were driven by demonstrated reductions in the amount of field time, which leads to fewer vehicle miles traveled and associated fuel consumption. A two-person team was able to sample 12 of the wells per day when using PDBs but only five wells per day if using low-flow methods.⁶

A comprehensive list of tools and resources for materials management decision-making is available in EPA's *Sustainable Materials Management in Site Cleanup* engineering issue paper.⁷

Use of EPA's *Spreadsheets for Environmental Analysis*⁸ to estimate the footprint of cleanup activities at the Grants Chlorinated Solvents Plume Site indicated that laboratory analysis (including sample collection and preparation and offsite transport) accounted for approximately 10% of the energy- and carbon dioxide (equivalent)-related footprint of operating, maintaining and monitoring the remedy.⁹ As a result, optimization of the sampling program is underway to reduce the frequency of sample collection and analysis.

Laboratory Support

Use of fixed-base laboratories for analytical services may significantly contribute to the environmental footprint of site investigation and environmental monitoring when considering offsite as well as onsite contributions. Green remediation BMPs concerning analytical support include:

- ◆ Use a mobile laboratory or portable analytical equipment, particularly for screening purposes and when rapid analytical results are needed.
- ◆ Specify EPA analytical methods involving procedures that need relatively low volumes of samples or solvents and generate less waste, such as solid phase micro extraction (SPME), pressurized fluid extraction, microwave extraction, and supercritical fluid extraction when possible. For example, SPME is a single-step process using little or no solvents and taking up to 70% less time.
- ◆ Choose fixed laboratories demonstrating a strong commitment to environmental performance, such as routine use of management practices identified by the International Institute for Sustainable Laboratories.¹¹

Attributes of high-performing laboratories include:

- Optimized ventilation rates in light of the mixing factor of particular pollutants being removed from the laboratory; simply maximizing ventilation results in unnecessary energy expenditure (and may diminish safety conditions).
- Use of energy recovery devices and systems to reduce energy consumption for interior heating and cooling.
- Use of energy-efficient equipment for ventilation, refrigeration and lighting.
- Use of energy consumption controls such as programmable thermostats, window glass tinting and ample insulation.
- Cooling tower operation with a high concentration ratio, which increases the number of times water circulates before it is bled off and discharged; cooling accounts for an estimated 30-60% of water used in multipurpose laboratories.¹²
- Integration of solenoid valves, timers or other controls on equipment used in processes requiring flowing water.
- Use of less hazardous materials; for example, toluene may substitute for benzene as a solvent.
- Implementation of purchasing strategies and inventory controls that minimize disposal of excess materials.
- Recycling of liquid waste; for example, non-halogenated solvents may be used offsite as fuel blending feedstock.
- Recycling of materials such as clean glass or plastic containers, drums, electronics, and steel or aluminum instrumentation.



Acquisition of laboratory services supporting remedial investigation at the Diaz Chemical Corporation Superfund site in Holley, New York, included specifications meeting EPA greener cleanup policy. The selected laboratory employs practices such as:

- Recycling all paper products and shipping materials.
- Using energy-efficient lighting.
- Maintaining a paperless reporting and invoicing program.
- Minimizing waste through use of EPA-approved microscale methods.

Similar procurement requirements for subcontractor drilling activities reduced the investigative footprint by:

- Using direct-push technology.
- Deploying trucks equipped with advanced emission controls.
- Minimizing waste through waste oil and scrap recycling.

This fact sheet provides an update on information compiled in the December 2009 "Site Investigation" fact sheet (EPA 542-F-09-004), in collaboration with the Greener Cleanups Subcommittee of the EPA Technical Support Project's Engineering Forum.

To view BMP fact sheets on other topics, visit CLU-IN Green Remediation Focus: www.clu-in.org/greenremediation.

References

- ¹ U.S. EPA. *Principles for Greener Cleanups*. August 2009. <https://www.epa.gov/greenercleanups/epa-principles-greener-cleanups>
- ² ASTM International. ASTM E2893-16, *Standard Guide for Greener Cleanups*. May 2016. <http://www.astm.org/Standards/E2893.htm>
- ³ U.S. Department of Energy. Alternative Fueling Station Locator. <http://www.afdc.energy.gov/locator/stations/>
- ⁴ U.S. EPA. Electronic Product Environmental Assessment Tool (EPEAT). <https://www.epa.gov/greenerproducts/electronic-product-environmental-assessment-tool-epaat>
- ⁵ U.S. EPA. *Greener Cleanups Contracting and Administration Toolkit*. December 2015. https://clu-in.org/greenremediation/docs/Greener_Cleanups_Contracting_and_Administrative_Toolkit.pdf
- ⁶ U.S. Army Corps of Engineers. *Evaluation of Consideration and Incorporation of Green and Sustainable Remediation (GSR) Practices in Army Environmental Remediation*. August 27, 2012. http://clu-in.org/greenremediation/docs/ACSIM_GSR_Fnl_Rpt_V1_Main_with_App.pdf
- ⁷ U.S. EPA. *Sustainable Materials Management in Site Cleanup*. EPA 542-F-13-003. December 2013. https://clu-in.org/greenremediation/docs/materials_management_issue%20paper.pdf
- ⁸ U.S. EPA. *Spreadsheets for Environmental Footprint Analysis (SEFA)*. <http://www.cluin.org/greenremediation/methodology/index.cfm#gr-toolkit-name>
- ⁹ U.S. EPA Region 6. *Evaluation of the Environmental Footprint of the Record of Decision Remedy: Comparison of Four Different Tools*. July 2013. https://clu-in.org/greenremediation/docs/Grants_Sustainability_Assessment_Report.pdf
- ¹⁰ U.S. EPA Region 8 Laboratory. *Quick Guide To Drinking Water Sample Collection*. April 2005. <http://www.emsl.com/PDFDocuments/SamplingGuide/EPA%20samplingprocedures.pdf>
- ¹¹ International Institute for Sustainable Laboratories. *Best Practices Guides*. <http://www.i2sl.org/resources/toolkit/bpg.html>
- ¹² U.S. EPA and U.S. Department of Energy. *Water Efficiency Guide for Laboratories*. Laboratories for the 21st Century: Best Practices. http://www.i2sl.org/documents/toolkit/bp_water_508.pdf

Green Remediation Best Management Practices: Materials and Waste Management

Office of Superfund Remediation and Technology Innovation

Quick Reference Fact Sheet

The U.S. Environmental Protection Agency (EPA) *Principles for Greener Cleanups* outline the Agency's policy for evaluating and minimizing the environmental "footprint" of activities undertaken when cleaning up a contaminated site.¹ Use of the best management practices (BMPs) identified in EPA's series of green remediation fact sheets can help project managers and other stakeholders apply the principles on a routine basis, while maintaining the cleanup objectives, ensuring protectiveness of a remedy, and improving its environmental outcome.

The use of non-renewable materials such as minerals, metals, and fossil fuel-derived products has significantly increased in the United States over recent decades. In 1900, for example, 41% of the materials used in the United States consisted of renewable resources such as agricultural, fishery, and forestry products. By 1995, renewable resources accounted for only 6%.² Much of this increase is due to the rapid growth of manufacturing processes that consume nonfuel minerals. Currently, more than 25,000 pounds per capita of new nonfuel minerals are extracted from the earth each year as input for manufactured products used in the United States.

Increased reliance on non-renewable resources and accelerated consumption of raw, processed, and manufactured materials has led to adverse environmental effects. The effects include habitat destruction, biodiversity loss, over-stressed fisheries, desertification, and greenhouse gas (GHG) emission. In 2006, materials management accounted for 42% of GHG emissions in the United States.³

Materials management refers to the control of material resources throughout their life cycle as they flow through the economy, from extraction or harvest through production and transport of goods, provision of services, reuse of materials, and, if necessary, disposal.

The process of cleaning up a contaminated site often involves purchasing and consuming large volumes of manufactured items as well as raw or processed resources. Site cleanup can also generate significant volumes of waste such as:

- Industrial materials and products accumulated as debris during onsite demolition of structures and during remedy construction
- Organic materials such as wood and plant matter displaced during excavation

- Metal, glass, plastic, or paper containers and packaging from single-use products, including field supplies such as test kits for soil or water sampling, and
- Expended products such as fabric tarps and metal tooling or chemical solutions used to clean equipment or treat contaminated environmental media.

Much of this waste could be recycled or salvaged for reuse rather than disposed of at landfills.

Techniques for sustainable materials management can help reduce the environmental footprint of a cleanup. EPA's *Methodology for Understanding and Reducing a Project's Environmental Footprint* specifies seven metrics associated with materials and waste, which together constitute a core element of greener cleanups.⁴



Materials & Waste: Environmental Footprint Metrics & Units of Measure	
1)	Refined materials used on site (tons)
2)	Refined materials from recycled or waste material (percent)
3)	Unrefined materials used on site (tons)
4)	Unrefined materials from recycled or waste material (percent)
5)	Onsite hazardous waste generated (tons)
6)	Onsite non-hazardous waste generated (tons)
7)	Total potential onsite waste recycled or reused (percent)

Industrial materials salvaged from demolition activities, for example, can be reused to construct new buildings and transportation systems, enhance infrastructure for water storage or drainage, or provide supplies for local agriculture, while remaining consistent with state regulations and appropriate environmental considerations.⁵ Similarly, organic matter can be reused as remediation material or site restoration components, and other solid or liquid wastes can be recycled.

EPA's suite of green remediation BMPs describes specific techniques or tools to achieve a greener cleanup.⁶ Opportunities to reduce the environmental footprint associated with materials and waste focus on:

- **Purchase of greener products**, and
- **Material reuse or recycling versus disposal.**

Purchase of Greener Products

Implementation of green remediation BMPs should begin during planning stages of a cleanup, to facilitate sustainable materials management throughout remedy construction and maintenance. Key BMPs to reduce purchasing of virgin resources include:

- Survey onsite buildings and infrastructures to determine the potential to reuse existing structures and equipment or their components as a substitute for virgin materials
- Investigate potential offsite sources such as nearby facilities that may have surplus inventory or are undergoing decommissioning, for additional substitutes
- Check for availability of needed products at local non-profit or retail centers that facilitate product reuse
- Select products that are environmentally preferable (when compared to other products serving the same purpose) with respect to raw materials consumption, manufacturing processes and locations, packaging, distribution, recycled content and recycling capability, maintenance needs, and disposal procedures
- Choose vendors with production and distribution centers near the site, to minimize fuel consumption associated with delivery
- Choose suppliers that will take back scraps or unused materials
- Design new construction to utilize standard material sizes, which minimizes excess purchasing volumes and avoids waste from custom sizing, and
- Plan new construction with future deconstruction or material reuse in mind.

EPA recommends taking advantage of existing resources to help select and purchase environmentally preferred products. The U.S. General Services Administration (GSA), for example, offers the Sustainable Facilities Tool (SF Tool), a comprehensive, online source of information and electronic links on materials for constructing and operating buildings or conducting facility activities in a sustainable way.⁷ Product categories in the SF Tool's "green production compilation" area cover a range of topics, including construction materials, landscaping elements such as compost and fertilizers, cleaning products, HVAC/mechanical equipment, and non-paper office products. The tool includes a search function to identify specific items such as fencing, signage, and bioremediation materials.

Environmental programs and standards captured within the tool include the:

- Design for the Environment (DfE) Program safety screening for lower hazard products
- Biopreferred[®] Program for products with biobased content
- WaterSense[®] performance testing for water-efficient products



- Federal Energy Management Program (FEMP) for water- and energy-efficient products
- ENERGY STAR verified ratings for energy-efficient products
- Significant New Alternatives Policy (SNAP) Program for ozone-depleting chemical substitutes, and
- American National Standards Institute (ANSI), Green Seal, and other independent certification programs.

A pump-and-treat (P&T) system to treat contaminated groundwater at the **Lawrence Aviation Site** on Long Island, New York, consists of equipment previously used elsewhere in the community:

- An air stripper salvaged from a local dry cleaning facility; the unit is equipped with two 3,000-pound filtration vessels containing reactivated (instead of virgin) carbon to treat air prior to its emission from the plant, and
- Two aqueous-phase carbon vessels, a vapor-phase carbon vessel, bag filters, a blower, piping, valves, connectors, pumps, and electrical wiring reclaimed from a nearby manufacturing facility undergoing upgrades.

Construction of a building to house the P&T system involved use of greener products and salvaged construction materials:

- Lumber from a Certified Green Dealer[™] lumberyard and wood certified under the Sustainable Forestry Initiative[®] or Program for Endorsement of Forest Certification
- Low-maintenance, insect- and weather-resistant composite siding made of sustainable materials with low toxicity, such as wood pulp, cement, and sand
- Spray-foam insulation made of renewable resources (soybeans) and through processes involving no formaldehyde, petroleum, asbestos, fiberglass, or volatile organic compounds
- Common-area flooring made of rapidly renewable cork, with an underlayment of post-consumer recycled granulated rubber from tires
- Light-reflective ceiling tiles comprising 45% rapidly renewable resources and 23% recycled content
- Cabinetry, hurricane shutters, and exterior doors made of remnant framing lumber instead of virgin wood, and
- Landscape mulch containing chipped wood from selected onsite trees requiring removal before remedy construction.



During construction, 240 tons of soil requiring excavation was transferred and stockpiled at a nearby municipal property for use by the Port Jefferson Highway Department. Prior to transfer, analytical tests were conducted on the soil to assure no residual contamination.

Material Reuse or Recycling Versus Disposal

Green remediation BMPs to facilitate sound planning for material reuse or recycling include:

- Check with applicable state agencies and local authorities to assure acceptable reuse of non-routine waste material or of industrial materials salvaged during construction and demolition (C&D)
- Screen local recyclers and waste haulers to identify organizations that will handle materials in an environmentally responsible manner, including suitable transportation methods and waste destinations, and
- Evaluate environmental or other trade-offs involved in onsite reuse of materials versus shipment offsite for reuse and/or recycling; evaluations can range in level of effort from qualitative comparisons of options to more rigorous quantification of alternative outcomes.⁴

Sustainable materials management can be facilitated through specific procurement practices for cleanup services, including subcontracts; for example:

- Include a requirement for reuse and recycling of all uncontaminated C&D material in documents such as requests for proposals and bid specifications
- Specify materials management goals in documentation such as construction waste management plans
- Develop a plan and reporting format to routinely track materials reuse/recycling and disposal, and
- Consider performance-based service contracts that can additionally motivate cleanup contractors and subcontractors to maximize material reuse/recycling.

EPA's Greener Cleanups: Contracting and Administrative Toolkit provides sample contract language and criteria for sustainable materials management in EPA regions.⁸

EPA recommends implementing additional BMPs during remedy construction, which may include demolition of existing structures:

- Divert at least 50% (by weight) of the uncontaminated C&D materials generated at the site, and include this goal in the site waste management plan
- Implement deconstruction techniques that involve preserving useable portions of existing structures, dismantling unusable parts for optimized transport, and recovering clean materials
- Salvage and sort clean materials with potential value for onsite reuse, recycling, resale, or donation
- Link a deconstruction project with a current construction or renovation project to facilitate material reuse
- Use crushed concrete as a construction aggregate for road base, pipe bedding, or landscaping
- Use concrete containing secondary cementitious materials to displace a portion of traditional Portland cement

- Use reclaimed asphalt pavement as a granular base for new roads
- Use shredded scrap tires, crushed concrete, and other onsite clean hard materials in place of borrow for fills
- Salvage uncontaminated and pest- or disease-free organic debris for use as infill or mulch as needed
- Optimize product ordering, to prevent purchase and delivery of excess materials, and
- Post onsite signage to designate collection points for routine recycling of single-use items such as metal, plastic, and glass containers, paper and cardboard, and other items that may be locally recyclable.

A comprehensive list of tools and resources for sustainable materials management decision-making is available in EPA's Sustainable Materials Management in Site Cleanup engineering issue paper.⁹ The information focuses on materials reuse and recycling and addresses topics such as:

- Locating C&D recyclers and material exchange networks
- State program requirements and beneficial use of materials
- Environmental benefits of diverting materials from landfills.

Sustainable materials management, whether focused on greener product selection or waste reduction techniques, also applies to methods for treating contaminated soil, sediment, or groundwater. For example, the following BMPs may be used for remedy operation and maintenance:

- Use reconstituted reactive media whenever feasible; for example, regenerated rather than virgin granular activated carbon (GAC) can be used in carbon treatment beds or canisters
- Consider non fossil fuel-based substitutes as reactive media, such as locally available coconut shell-derived GAC rather than coal-based GAC
- Explore innovative technology enabling recycling or resale of extracted chemicals; for example, cryogenic compression and condensation processes can enable recovery of hydrocarbon from air stripping condensate¹⁰
- Maximize use of industrial materials (in ways consistent with agronomic and environmental constraints) such as iron and steel foundry sands, dry wall, flue gas desulfurization (FGD) gypsum, and non-synthetic compost for soil amendments and manufactured soils; FGD gypsum can also serve effectively in flow-through curtains to mitigate phosphorous transport to surface and groundwater
- Use periodic optimization evaluations as opportunities to incorporate industrial material recycling practices and to switch to newer green products, and
- Use continuous process monitoring techniques to maximize capacity of a treatment medium and minimize frequency of treatment media replacement or replenishment.

A range of industrial materials may exist as waste at sites undergoing cleanup. Conversely, industrial materials can effectively contribute to site cleanup. EPA's **Industrial Materials Recycling** website provides more information on recycling and beneficial use of industrial materials such as C&D materials, coal combustion products, foundry sand, and iron and steel slag.⁵

Cleanup at the **Sanford Gasification Plant** in Seminole County, Florida, incorporated a sustainable materials management plan involving extensive reuse or recycling of onsite materials; minimized offsite disposal of excavated materials; and overall reductions in consumption of water and fossil fuels. The implemented BMPs and associated results included:

- Screened clean versus contaminated soil through a "cut line" investigative approach and segregated soils accordingly, which minimized the soil treatment load while averting import of 1,600 cubic yards of non-native soils for site restoration
- Used granulated blast furnace slag in lieu of a portion of the cement specified in the typical formula used to stabilize coal tar-contaminated soil, avoiding 13,700 tons of carbon dioxide (CO₂) otherwise emitted by thermal reactions during mixing of cement with other reagents
- Chipped and sent 5,000 cubic yards of extracted trees and stumps to local landscapers for use as mulch, avoiding shipment of 800 tons of material to landfills
- Installed a solar-powered backup energy system for perimeter air monitoring during remedy construction
- Reused 3.7 million gallons of water from onsite dewatering operations in the soil stabilization process
- Used B20 (20% biodiesel) to operate diesel vehicles and machinery, averting 177 tons of CO₂ emissions, and
- Procured 75% of the remedial labor and supplies (valued at \$8 million) from local sources within 50 miles of the site.



A gravity drain network overlaying recycled concrete was used to divert 500 feet of an onsite creek during remedy construction, which reduced use of diesel pumps.



The stabilization project involved extensive use of recycled concrete serving as riprap to armor the creek bed and limit erosion.

Materials and Waste Management: Recommended Checklist

Purchase of Greener Products

- ✓ Explore options for reusing materials onsite or available from local sources
- ✓ Purchase from local vendors who accept unused materials upon project completion
- ✓ Design for optimized product sizing and product ordering and for future reuse or repurposing
- ✓ Choose environmentally preferable products

Material Reuse or Recycling Versus Disposal

- ✓ Verify acceptable reuse of C&D materials with regulators
- ✓ Screen recyclers and waste haulers
- ✓ Evaluate environmental trade-offs
- ✓ Specify requirements and goals in service contracts
- ✓ Salvage uncontaminated demolition and other materials with value for reuse/recycling, resale, or donation
- ✓ Use onsite or offsite industrial materials such as crushed concrete and shredded scrap tires for remedy construction
- ✓ Recycle routine single-use items regularly
- ✓ Minimize direct or indirect use of fossil fuels during activities such as product purchasing or waste transfer
- ✓ Plan treatment process optimization and monitoring that includes sustainable materials management

References [Web accessed: December 2013]

- ¹ U.S. EPA; *Principles for Greener Cleanups*; August 27, 2009; <http://www.epa.gov/oswer/greenercleanups>
- ² U.S. EPA; *Sustainable Materials Management: The Road Ahead*; EPA 530-R-09-009; June 2009
- ³ U.S. EPA; *Opportunities to Reduce Greenhouse Gas Emissions through Materials and Land Management Practices*; EPA 530-R-09-017; September 2009
- ⁴ U.S. EPA; *EPA's Methodology for Understanding and Reducing a Project's Environmental Footprint*; EPA 542-R-12-002; February 2012; http://www.cluin.org/greenremediation/methodology/docs/GC_Footprint_Methodology_Feb2012.pdf
- ⁵ U.S. EPA; *Industrial Materials Recycling*; <http://www.epa.gov/osw/conservation/imr/>
- ⁶ U.S. EPA; *Green Remediation Best Management Practices: Fact Sheets on Specific Remedies and Other Key Issues*; http://www.cluin.org/greenremediation/docs/GR_factsheet_topics.pdf
- ⁷ GSA; *Sustainable Facilities Tool*; <http://www.sftool.gov/learn>
- ⁸ U.S. EPA; *Greener Cleanups Contracting and Administrative Toolkit*; http://www.cluin.org/greenremediation/docs/Greener_Cleanups_Contracting_and_Administrative_Toolkit.pdf
- ⁹ U.S. EPA; *Sustainable Materials Management in Site Cleanup*; EPA 542-F-13-001; March 2013; http://www.clu-in.org/greenremediation/docs/materials_management_issue%20paper.pdf
- ¹⁰ U.S. EPA; *Technology News and Trends*; *Cryogenic Compression and Condensation Process Used for Hydrocarbon Recovery*; EPA 542-N-10-004; August 2010

The Agency is publishing this fact sheet as a means of disseminating information regarding the BMPs of green remediation; mention of specific products or vendors does not constitute EPA endorsement.

Visit **Green Remediation Focus** online:
<http://www.cluin.org/greenremediation>

For more information, contact:
Carlos Pachon, OSWER/OSRTI (pachon.carlos@epa.gov)
U.S. Environmental Protection Agency

Appendix C Laboratory Report and Data Usability Summary Report

October 11, 2024

Payson Long
NYDEC_AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110

Project Location: Staatsburg, NY
Client Job Number:
Project Number: 314008
Laboratory Work Order Number: 24I1930

Enclosed are results of analyses for samples as received by the laboratory on September 13, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	10
24I1930-01	10
24I1930-02	14
24I1930-03	20
24I1930-04	26
24I1930-05	32
24I1930-06	38
24I1930-07	42
24I1930-08	48
24I1930-09	54
24I1930-10	58
24I1930-11	62
24I1930-12	65
24I1930-13	69
24I1930-14	73
24I1930-15	79
24I1930-16	85
24I1930-17	89
24I1930-18	93
24I1930-19	95
24I1930-20	99
24I1930-21	103
Sample Preparation Information	107

Table of Contents (continued)

QC Data	110
Volatile Organic Compounds by GC/MS	110
B386339	110
1,4-Dioxane by isotope dilution GC/MS	118
B386221	118
B386359	118
B386835	118
Semivolatile Organic Compounds by - LC/MS-MS	120
B387576	120
B387736	124
B388184	128
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	137
B386255	137
B386256	137
B386341	137
B386561	137
Flag/Qualifier Summary	138
Certifications	139
Chain of Custody/Sample Receipt	142

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

NYDEC_AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Payson Long

REPORT DATE: 10/11/2024

PURCHASE ORDER NUMBER: 151926

PROJECT NUMBER: 314008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24I1930

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

PROJECT LOCATION: Staatsburg, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-5-09102024	24I1930-01	Ground Water		Draft Method 1633 SW-846 8270E	
MW-7S-09102024	24I1930-02	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-1-09102024	24I1930-03	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-7D-09102024	24I1930-04	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
DUP-09102024	24I1930-05	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-4D-09112024	24I1930-06	Ground Water		Draft Method 1633 SW-846 8270E	
MW-12D-09112024	24I1930-07	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-4S-09112024	24I1930-08	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-12S-09112024	24I1930-09	Ground Water		Draft Method 1633 SW-846 8270E	
MW-3S-09112024	24I1930-10	Ground Water		Draft Method 1633 SW-846 8270E	
Field Blank	24I1930-11	Field Blank		Draft Method 1633	
MW-8-09112024	24I1930-12	Ground Water		Draft Method 1633 SW-846 8270E	
OW-6-09122024	24I1930-13	Ground Water		Draft Method 1633 SW-846 8270E	
MW-6D-09122024	24I1930-14	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-6S-09122024	24I1930-15	Ground Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
MW-3D-09122024	24I1930-16	Ground Water		Draft Method 1633 SW-846 8270E	
MW-11-09122024	24I1930-17	Ground Water		Draft Method 1633 SW-846 8270E	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332NYDEC_AECOM Environment - Latham, NY
40 British American Blvd.
Latham, NY 12110
ATTN: Payson Long

REPORT DATE: 10/11/2024

PURCHASE ORDER NUMBER: 151926

PROJECT NUMBER: 314008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24I1930

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

PROJECT LOCATION: Staatsburg, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	24I1930-18	Trip Blank Water		SW-846 8260D	
MW-2-09102024	24I1930-19	Ground Water		Draft Method 1633	
				SW-846 8270E	
MW-9-09112024	24I1930-20	Ground Water		Draft Method 1633	
				SW-846 8270E	
MW-10-09112024	24I1930-21	Ground Water		Draft Method 1633	
				SW-846 8270E	

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

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

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**

24I1930-01[MW-5-09102024], 24I1930-02[MW-7S-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-06[MW-4D- 09112024], 24I1930-07[MW-12D-09112024], 24I1930-09[MW-12S-09112024], 24I1930-13[OW-6-09122024], 24I1930-14[MW-6D-09122024], 24I1930-16[MW-3D-09122024], 24I1930-20[MW-9-09112024], 24I1930-21[MW-10-09112024]

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**D9-NEtFOSE**

S111730-CCB1

N-methylperfluorooctanesulfonamidoethanol(NMeF

S111730-CCB1

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:**Perfluorohexanoic acid (PFHxA)**

24I1930-10[MW-3S-09112024]

PF-23

Qualifier ion ratio <50% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:**Perfluorooctanesulfonic acid (PFOS)**

24I1930-07[MW-12D-09112024], 24I1930-13[OW-6-09122024], 24I1930-14[MW-6D-09122024], 24I1930-20[MW-9-09112024]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**13C5-PFPeA**

S111730-CCV3, S111976-CCV3, S111999-CCV3

D9-NEtFOSE

S111730-CCV1, S111730-IBL1

N-ethylperfluorooctanesulfonamidoethanol (NEtFO:

S111730-CCV1, S111730-IBL1

Perfluoropentanoic acid (PFPeA)

S111730-CCV3, S111976-CCV3, S111999-CCV3

SW-846 8260D**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**tert-Amyl Alcohol (TAA)**

24I1930-02[MW-7S-09102024], 24I1930-03[MW-1-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-07[MW-12D- 09112024], 24I1930-08[MW-4S-09112024], 24I1930-14[MW-6D-09122024], 24I1930-15[MW-6S-09122024], 24I1930-18[Trip Blank], B386339-BLK1, B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Methyl Acetate**

24I1930-02[MW-7S-09102024], B386339-MS1, B386339-MSD1

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

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**tert-Amyl Alcohol (TAA)**

24I1930-02[MW-7S-09102024], B386339-MS1, B386339-MSD1

tert-Butyl Alcohol (TBA)

24I1930-02[MW-7S-09102024], B386339-MS1, B386339-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

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

B386339-MS1, B386339-MSD1

Vinyl Chloride

B386339-MS1, B386339-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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

24I1930-02[MW-7S-09102024], B386339-MS1, B386339-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

B386339-MS1

V-05

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

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

24I1930-02[MW-7S-09102024], 24I1930-03[MW-1-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-07[MW-12D-09112024], 24I1930-08[MW-4S-09112024], 24I1930-14[MW-6D-09122024], 24I1930-15[MW-6S-09122024], 24I1930-18[Trip Blank], B386339-BLK1, B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1, S110752-CCV1

tert-Amyl Alcohol (TAA)

24I1930-02[MW-7S-09102024], 24I1930-03[MW-1-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-07[MW-12D-09112024], 24I1930-08[MW-4S-09112024], 24I1930-14[MW-6D-09122024], 24I1930-15[MW-6S-09122024], 24I1930-18[Trip Blank], B386339-BLK1, B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1, S110752-CCV1

tert-Butyl Alcohol (TBA)

24I1930-02[MW-7S-09102024], 24I1930-03[MW-1-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-07[MW-12D-09112024], 24I1930-08[MW-4S-09112024], 24I1930-14[MW-6D-09122024], 24I1930-15[MW-6S-09122024], 24I1930-18[Trip Blank], B386339-BLK1, B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1, S110752-CCV1

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:**Methylene Chloride**

B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1, S110752-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:**4-Methyl-2-pentanone (MIBK)**

B386339-BS1, B386339-BSD1, B386339-MS1, B386339-MSD1, S110752-CCV1

SW-846 8270E

Qualifications:

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

B

Analyte is found in the associated laboratory blank as well as in the sample.

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

24I1930-02[MW-7S-09102024], 24I1930-09[MW-12S-09112024], B386221-BLK1

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

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

24I1930-01[MW-5-09102024], 24I1930-03[MW-1-09102024], 24I1930-04[MW-7D-09102024], 24I1930-05[DUP-09102024], 24I1930-06[MW-4D-09112024],
24I1930-07[MW-12D-09112024], 24I1930-08[MW-4S-09112024]

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24I1930-02RE1[MW-7S-09102024], 24I1930-09RE1[MW-12S-09112024]

S-26

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:**1,4-Dioxane-d8**

B386221-MS1

Z-01

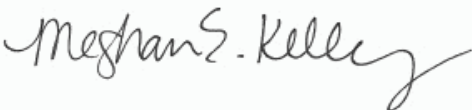
Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank.

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

24I1930-02[MW-7S-09102024], 24I1930-09[MW-12S-09112024]

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: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-5-09102024

Sampled: 9/10/2024 13:20

Sample ID: 24I1930-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.0	0.20	0.033	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 21:24	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	21.3		15-110				9/18/24 21:24			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-5-09102024

Sampled: 9/10/2024 13:20

Sample ID: 24I1930-01

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)	ND	3.7	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.40	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorohexanoic acid (PFHxA)	ND	0.93	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorooctanoic acid (PFOA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorononanoic acid (PFNA)	0.19	0.93	0.18	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorodecanoic acid (PFDA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.93	0.20	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.93	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.93	0.36	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.23	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.69	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.30	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.37	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.5	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.5	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.96	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.76	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.89	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
11Cl-PF3OUDS (F53B Major)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	10	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.8	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-5-09102024

Sampled: 9/10/2024 13:20

Sample ID: 24I1930-01

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	1.9	0.50	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.51	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:32	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	99.8		10-130				10/11/24 3:32			
13C5-PFPeA	118		35-150				10/11/24 3:32			
13C5-PFHxA	97.6		55-150				10/11/24 3:32			
13C4-PFHpA	94.1		55-150				10/11/24 3:32			
13C8-PFOA	101		60-140				10/11/24 3:32			
13C9-PFNA	96.9		55-140				10/11/24 3:32			
13C6-PFDA	94.5		50-140				10/11/24 3:32			
13C7-PFUnA	102		30-140				10/11/24 3:32			
13C2-PFDoA	91.0		10-150				10/11/24 3:32			
13C2-PFTeDA	86.7		10-130				10/11/24 3:32			
13C3-PFBS	99.6		55-150				10/11/24 3:32			
13C3-PFHxS	105		55-150				10/11/24 3:32			
13C8-PFOS	99.0		45-140				10/11/24 3:32			
13C2-4:2FTS	89.0		60-200				10/11/24 3:32			
13C2-6:2FTS	91.5		60-200				10/11/24 3:32			
13C2-8:2FTS	84.2		50-200				10/11/24 3:32			
13C8-PFOSA	91.1		30-130				10/11/24 3:32			
D3-NMeFOSA	78.1		15-130				10/11/24 3:32			
D5-NEtFOSA	79.0		10-130				10/11/24 3:32			
D3-NMeFOSAA	93.4		45-200				10/11/24 3:32			
D5-NEtFOSAA	93.6		10-200				10/11/24 3:32			
D7-NMeFOSE	85.9		10-150				10/11/24 3:32			
D9-NEtFOSE	84.1		10-150				10/11/24 3:32			
13C3-HFPO-DA	94.8		25-160				10/11/24 3:32			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-5-09102024 Sampled: 9/10/2024 13:20
Sample ID: 24I1930-01
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	ND	10	mg/L	1	H-01	Draft Method 1633	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7S-09102024

Sampled: 9/10/2024 13:22

Sample ID: 24I1930-02

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
Acetone	3.9	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, MS-09, V-05	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	MS-09, V-05	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1-Dichloroethane	2.3	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1-Dichloroethylene	0.69	1.0	0.18	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
cis-1,2-Dichloroethylene	10	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
trans-1,2-Dichloroethylene	0.23	1.0	0.16	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1	MS-07A	SW-846 8260D	9/17/24	9/18/24 23:32	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7S-09102024

Sampled: 9/10/2024 13:22

Sample ID: 24I1930-02

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Tetrachloroethylene	0.39	1.0	0.17	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1,1-Trichloroethane	1.4	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Trichloroethylene	170	1.0	0.17	µg/L	1	MS-19	SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:32	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.9		70-130				9/18/24 23:32			
Toluene-d8	97.7		70-130				9/18/24 23:32			
4-Bromofluorobenzene	106		70-130				9/18/24 23:32			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7S-09102024

Sampled: 9/10/2024 13:22

Sample ID: 24I1930-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.51	0.19	0.031	µg/L	1	B, Z-01	SW-846 8270E	9/16/24	9/18/24 17:27	GJB
1,4-Dioxane	0.67	0.19	0.031	µg/L	1		SW-846 8270E	9/21/24	9/24/24 20:15	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	32.2		15-110				9/18/24 17:27			
1,4-Dioxane-d8	19.0		15-110				9/24/24 20:15			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7S-09102024

Sampled: 9/10/2024 13:22

Sample ID: 24I1930-02

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)	8.8	3.7	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoropentanoic acid (PFPeA)	8.3	1.9	0.40	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorohexanoic acid (PFHxA)	9.1	0.94	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoroheptanoic acid (PFHpA)	7.6	0.94	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorooctanoic acid (PFOA)	260	0.94	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorononanoic acid (PFNA)	1.3	0.94	0.18	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorodecanoic acid (PFDA)	3.3	0.94	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorobutanesulfonic acid (PFBS)	2.1	0.94	0.20	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorohexanesulfonic acid (PFHxS)	0.38	0.94	0.26	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorooctanesulfonic acid (PFOS)	1.3	0.94	0.36	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.70	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.37	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.6	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.77	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.90	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
11Cl-PF3OUDS (F53B Major)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	11	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.9	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7S-09102024

Sampled: 9/10/2024 13:22

Sample ID: 24I1930-02

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	1.9	0.50	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/8/24	10/11/24 3:47	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	105		10-130				10/11/24 3:47			
13C5-PFPeA	122		35-150				10/11/24 3:47			
13C5-PFHxA	99.5		55-150				10/11/24 3:47			
13C4-PFHpA	96.9		55-150				10/11/24 3:47			
13C8-PFOA	100		60-140				10/11/24 3:47			
13C9-PFNA	102		55-140				10/11/24 3:47			
13C6-PFDA	101		50-140				10/11/24 3:47			
13C7-PFUnA	94.6		30-140				10/11/24 3:47			
13C2-PFDoA	83.2		10-150				10/11/24 3:47			
13C2-PFTeDA	76.8		10-130				10/11/24 3:47			
13C3-PFBS	99.4		55-150				10/11/24 3:47			
13C3-PFHxS	100		55-150				10/11/24 3:47			
13C8-PFOS	100		45-140				10/11/24 3:47			
13C2-4:2FTS	104		60-200				10/11/24 3:47			
13C2-6:2FTS	95.1		60-200				10/11/24 3:47			
13C2-8:2FTS	88.3		50-200				10/11/24 3:47			
13C8-PFOSA	90.1		30-130				10/11/24 3:47			
D3-NMeFOSA	72.0		15-130				10/11/24 3:47			
D5-NEtFOSA	73.1		10-130				10/11/24 3:47			
D3-NMeFOSAA	87.4		45-200				10/11/24 3:47			
D5-NEtFOSAA	87.6		10-200				10/11/24 3:47			
D7-NMeFOSE	74.9		10-150				10/11/24 3:47			
D9-NEtFOSE	74.0		10-150				10/11/24 3:47			
13C3-HFPO-DA	98.8		25-160				10/11/24 3:47			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-7S-09102024 Sampled: 9/10/2024 13:22
Sample ID: 24I1930-02
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	ND	10	mg/L	1	H-01	Draft Method 1633	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-1-09102024

Sampled: 9/10/2024 15:00

Sample ID: 24I1930-03

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
Acetone	4.7	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1	V-05	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1-Dichloroethane	20	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1-Dichloroethylene	2.8	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
cis-1,2-Dichloroethylene	11	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-1-09102024

Sampled: 9/10/2024 15:00

Sample ID: 24I1930-03

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Toluene	0.17	1.0	0.11	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1,1-Trichloroethane	14	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Trichloroethylene	95	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Vinyl Chloride	0.46	2.0	0.19	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:57	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:57	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.4		70-130				9/18/24 23:57			
Toluene-d8	101		70-130				9/18/24 23:57			
4-Bromofluorobenzene	107		70-130				9/18/24 23:57			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-1-09102024 Sampled: 9/10/2024 15:00
Sample ID: 24I1930-03
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.3	0.20	0.033	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 21:43	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.8		15-110				9/18/24 21:43			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-1-09102024

Sampled: 9/10/2024 15:00

Sample ID: 24I1930-03

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)	4.8	3.8	2.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoropentanoic acid (PFPeA)	6.3	1.9	0.41	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorohexanoic acid (PFHxA)	5.5	0.96	0.23	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoroheptanoic acid (PFHpA)	4.2	0.96	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorooctanoic acid (PFOA)	160	0.96	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorononanoic acid (PFNA)	0.92	0.96	0.18	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorodecanoic acid (PFDA)	0.23	0.96	0.20	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorobutanesulfonic acid (PFBS)	2.2	0.96	0.20	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorohexanesulfonic acid (PFHxS)	0.39	0.96	0.27	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorooctanesulfonic acid (PFOS)	1.3	0.96	0.37	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.72	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.34	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.38	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.79	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.92	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
11Cl-PF3OUdS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	2.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	11	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-1-09102024

Sampled: 9/10/2024 15:00

Sample ID: 24I1930-03

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	0.52	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:03	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	107		10-130				10/11/24 4:03			
13C5-PFPeA	128		35-150				10/11/24 4:03			
13C5-PFHxA	104		55-150				10/11/24 4:03			
13C4-PFHpA	101		55-150				10/11/24 4:03			
13C8-PFOA	104		60-140				10/11/24 4:03			
13C9-PFNA	105		55-140				10/11/24 4:03			
13C6-PFDA	108		50-140				10/11/24 4:03			
13C7-PFUnA	101		30-140				10/11/24 4:03			
13C2-PFDoA	95.9		10-150				10/11/24 4:03			
13C2-PFTeDA	84.6		10-130				10/11/24 4:03			
13C3-PFBS	101		55-150				10/11/24 4:03			
13C3-PFHxS	106		55-150				10/11/24 4:03			
13C8-PFOS	98.5		45-140				10/11/24 4:03			
13C2-4:2FTS	107		60-200				10/11/24 4:03			
13C2-6:2FTS	97.0		60-200				10/11/24 4:03			
13C2-8:2FTS	86.1		50-200				10/11/24 4:03			
13C8-PFOSA	90.8		30-130				10/11/24 4:03			
D3-NMeFOSA	75.3		15-130				10/11/24 4:03			
D5-NEtFOSA	74.3		10-130				10/11/24 4:03			
D3-NMeFOSAA	88.5		45-200				10/11/24 4:03			
D5-NEtFOSAA	93.6		10-200				10/11/24 4:03			
D7-NMeFOSE	78.1		10-150				10/11/24 4:03			
D9-NEtFOSE	78.0		10-150				10/11/24 4:03			
13C3-HFPO-DA	102		25-160				10/11/24 4:03			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-1-09102024

Sampled: 9/10/2024 15:00

Sample ID: 24I1930-03

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		Draft Method 1633	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

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
Acetone	2.7	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 0:23	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1-Dichloroethane	14	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1-Dichloroethylene	2.3	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
cis-1,2-Dichloroethylene	12	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1,1-Trichloroethane	3.2	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Trichloroethylene	180	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Vinyl Chloride	2.3	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:23	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.5		70-130							
Toluene-d8	98.1		70-130							
4-Bromofluorobenzene	107		70-130							

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	2.5	0.19	0.031	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 22:03	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.6		15-110				9/18/24 22:03			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

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)	5.4	3.7	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoropentanoic acid (PFPeA)	3.9	1.8	0.39	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorohexanoic acid (PFHxA)	6.0	0.91	0.22	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoroheptanoic acid (PFHpA)	5.2	0.91	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorooctanoic acid (PFOA)	270	0.91	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorononanoic acid (PFNA)	0.73	0.91	0.17	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorodecanoic acid (PFDA)	0.97	0.91	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorobutanesulfonic acid (PFBS)	3.3	0.91	0.19	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorohexanesulfonic acid (PFHxS)	0.35	0.91	0.26	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorooctanesulfonic acid (PFOS)	1.3	0.91	0.35	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.68	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.37	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.94	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.75	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.88	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
11Cl-PF3OUDS (F53B Major)	ND	3.7	0.98	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	10	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.7	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

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	1.8	0.49	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:19	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	108		10-130				10/11/24 4:19			
13C5-PFPeA	130		35-150				10/11/24 4:19			
13C5-PFHxA	106		55-150				10/11/24 4:19			
13C4-PFHpA	106		55-150				10/11/24 4:19			
13C8-PFOA	107		60-140				10/11/24 4:19			
13C9-PFNA	111		55-140				10/11/24 4:19			
13C6-PFDA	103		50-140				10/11/24 4:19			
13C7-PFUnA	103		30-140				10/11/24 4:19			
13C2-PFDoA	97.5		10-150				10/11/24 4:19			
13C2-PFTeDA	89.0		10-130				10/11/24 4:19			
13C3-PFBS	108		55-150				10/11/24 4:19			
13C3-PFHxS	111		55-150				10/11/24 4:19			
13C8-PFOS	105		45-140				10/11/24 4:19			
13C2-4:2FTS	112		60-200				10/11/24 4:19			
13C2-6:2FTS	101		60-200				10/11/24 4:19			
13C2-8:2FTS	89.9		50-200				10/11/24 4:19			
13C8-PFOSA	95.8		30-130				10/11/24 4:19			
D3-NMeFOSA	80.1		15-130				10/11/24 4:19			
D5-NEtFOSA	81.5		10-130				10/11/24 4:19			
D3-NMeFOSAA	95.0		45-200				10/11/24 4:19			
D5-NEtFOSAA	97.5		10-200				10/11/24 4:19			
D7-NMeFOSE	86.2		10-150				10/11/24 4:19			
D9-NEtFOSE	84.1		10-150				10/11/24 4:19			
13C3-HFPO-DA	102		25-160				10/11/24 4:19			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-7D-09102024

Sampled: 9/10/2024 15:30

Sample ID: 24I1930-04

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	ND	10	mg/L	1	H-01	Draft Method 1633	9/18/24	9/18/24 11:54	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: DUP-09102024

Sampled: 9/10/2024 00:00

Sample ID: 24I1930-05

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
Acetone	2.7	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1-Dichloroethane	21	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1-Dichloroethylene	3.0	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
cis-1,2-Dichloroethylene	12	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: DUP-09102024

Sampled: 9/10/2024 00:00

Sample ID: 24I1930-05

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Toluene	0.14	1.0	0.11	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1,1-Trichloroethane	15	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Trichloroethylene	96	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Vinyl Chloride	0.52	2.0	0.19	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 0:48	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 0:48	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.9		70-130				9/19/24 0:48			
Toluene-d8	99.1		70-130				9/19/24 0:48			
4-Bromofluorobenzene	107		70-130				9/19/24 0:48			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: DUP-09102024 Sampled: 9/10/2024 00:00
Sample ID: 24I1930-05
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.5	0.20	0.033	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 22:23	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.5		15-110				9/18/24 22:23			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: DUP-09102024

Sampled: 9/10/2024 00:00

Sample ID: 24I1930-05

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)	4.8	3.9	2.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoropentanoic acid (PFPeA)	5.5	2.0	0.42	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorohexanoic acid (PFHxA)	5.8	0.98	0.24	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoroheptanoic acid (PFHpA)	4.2	0.98	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorooctanoic acid (PFOA)	160	0.98	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorononanoic acid (PFNA)	0.81	0.98	0.19	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorodecanoic acid (PFDA)	0.30	0.98	0.20	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorododecanoic acid (PFDoA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	0.29	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	0.26	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorobutanesulfonic acid (PFBS)	2.0	0.98	0.21	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorohexanesulfonic acid (PFHxS)	0.45	0.98	0.27	ng/L	1	J	Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorooctanesulfonic acid (PFOS)	1.6	0.98	0.38	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.98	0.25	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.73	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	3.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	0.23	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	0.32	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	0.33	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-MeFOSAA (NMeFOSAA)	ND	0.98	0.35	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-EtFOSAA (NEtFOSAA)	ND	0.98	0.39	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	2.7	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	2.6	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.81	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.95	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
11Cl-PF3OUdS (F53B Major)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	2.1	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	11	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	9.3	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.34	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: DUP-09102024

Sampled: 9/10/2024 00:00

Sample ID: 24I1930-05

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	2.0	0.53	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	10/8/24	10/11/24 4:34	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	106		10-130				10/11/24 4:34			
13C5-PFPeA	124		35-150				10/11/24 4:34			
13C5-PFHxA	103		55-150				10/11/24 4:34			
13C4-PFHpA	105		55-150				10/11/24 4:34			
13C8-PFOA	102		60-140				10/11/24 4:34			
13C9-PFNA	107		55-140				10/11/24 4:34			
13C6-PFDA	98.5		50-140				10/11/24 4:34			
13C7-PFUnA	104		30-140				10/11/24 4:34			
13C2-PFDoA	93.0		10-150				10/11/24 4:34			
13C2-PFTeDA	88.6		10-130				10/11/24 4:34			
13C3-PFBS	105		55-150				10/11/24 4:34			
13C3-PFHxS	110		55-150				10/11/24 4:34			
13C8-PFOS	105		45-140				10/11/24 4:34			
13C2-4:2FTS	108		60-200				10/11/24 4:34			
13C2-6:2FTS	100		60-200				10/11/24 4:34			
13C2-8:2FTS	83.9		50-200				10/11/24 4:34			
13C8-PFOSA	92.2		30-130				10/11/24 4:34			
D3-NMeFOSA	80.8		15-130				10/11/24 4:34			
D5-NEtFOSA	82.9		10-130				10/11/24 4:34			
D3-NMeFOSAA	92.7		45-200				10/11/24 4:34			
D5-NEtFOSAA	95.2		10-200				10/11/24 4:34			
D7-NMeFOSE	87.3		10-150				10/11/24 4:34			
D9-NEtFOSE	86.9		10-150				10/11/24 4:34			
13C3-HFPO-DA	101		25-160				10/11/24 4:34			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: DUP-09102024

Sampled: 9/10/2024 00:00

Sample ID: 24I1930-05

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	ND	10	mg/L	1	H-01	Draft Method 1633	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4D-09112024

Sampled: 9/11/2024 11:30

Sample ID: 24I1930-06

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	5.2	0.19	0.031	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 22:43	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.7		15-110				9/18/24 22:43			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4D-09112024

Sampled: 9/11/2024 11:30

Sample ID: 24I1930-06

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	3.6	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorohexanoic acid (PFHxA)	0.27	0.91	0.22	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorooctanoic acid (PFOA)	0.48	0.91	0.24	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorodecanoic acid (PFDA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.91	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.91	0.35	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.68	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluorooctanesulfonamide (PFOSA)	2.1	0.91	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.75	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.88	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.98	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4D-09112024

Sampled: 9/11/2024 11:30

Sample ID: 24I1930-06

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	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:42	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.4		10-130				10/10/24 20:42			
13C5-PFPeA	90.2		35-150				10/10/24 20:42			
13C5-PFHxA	80.3		55-150				10/10/24 20:42			
13C4-PFHpA	73.6		55-150				10/10/24 20:42			
13C8-PFOA	79.5		60-140				10/10/24 20:42			
13C9-PFNA	79.4		55-140				10/10/24 20:42			
13C6-PFDA	73.2		50-140				10/10/24 20:42			
13C7-PFUnA	71.6		30-140				10/10/24 20:42			
13C2-PFDoA	63.1		10-150				10/10/24 20:42			
13C2-PFTeDA	61.2		10-130				10/10/24 20:42			
13C3-PFBS	81.9		55-150				10/10/24 20:42			
13C3-PFHxS	81.4		55-150				10/10/24 20:42			
13C8-PFOS	75.9		45-140				10/10/24 20:42			
13C2-4:2FTS	101		60-200				10/10/24 20:42			
13C2-6:2FTS	88.5		60-200				10/10/24 20:42			
13C2-8:2FTS	81.5		50-200				10/10/24 20:42			
13C8-PFOSA	72.3		30-130				10/10/24 20:42			
D3-NMeFOSA	55.3		15-130				10/10/24 20:42			
D5-NEtFOSA	53.5		10-130				10/10/24 20:42			
D3-NMeFOSAA	70.6		45-200				10/10/24 20:42			
D5-NEtFOSAA	72.8		10-200				10/10/24 20:42			
D7-NMeFOSE	63.3		10-150				10/10/24 20:42			
D9-NEtFOSE	61.7		10-150				10/10/24 20:42			
13C3-HFPO-DA	68.7		25-160				10/10/24 20:42			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-4D-09112024 Sampled: 9/11/2024 11:30
Sample ID: 24I1930-06
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	ND	10	mg/L	1	H-01	Draft Method 1633	9/18/24	9/18/24 11:54	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

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
Acetone	2.7	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1-Dichloroethane	10	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1-Dichloroethylene	1.0	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
cis-1,2-Dichloroethylene	0.45	1.0	0.20	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1,1-Trichloroethane	0.72	1.0	0.14	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Trichloroethylene	2.0	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:14	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.5		70-130				9/19/24 1:14			
Toluene-d8	98.9		70-130				9/19/24 1:14			
4-Bromofluorobenzene	106		70-130				9/19/24 1:14			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.0	0.20	0.033	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 23:02	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.3		15-110				9/18/24 23:02			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

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)	ND	3.8	2.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoropentanoic acid (PFPeA)	4.5	1.9	0.41	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorohexanoic acid (PFHxA)	3.3	0.96	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoroheptanoic acid (PFHpA)	0.72	0.96	0.25	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorooctanoic acid (PFOA)	15	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorononanoic acid (PFNA)	ND	0.96	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorodecanoic acid (PFDA)	ND	0.96	0.20	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.20	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorobutanesulfonic acid (PFBS)	0.78	0.96	0.20	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorohexanesulfonic acid (PFHxS)	0.42	0.96	0.27	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorooctanesulfonic acid (PFOS)	0.99	0.96	0.37	ng/L	1	PF-23	Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.72	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.38	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.79	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.92	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
11Cl-PF3OUDS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	2.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	11	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

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	1.9	0.52	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/10/24 20:58	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	83.6		10-130				10/10/24 20:58			
13C5-PFPeA	101		35-150				10/10/24 20:58			
13C5-PFHxA	83.7		55-150				10/10/24 20:58			
13C4-PFHpA	81.3		55-150				10/10/24 20:58			
13C8-PFOA	82.7		60-140				10/10/24 20:58			
13C9-PFNA	84.2		55-140				10/10/24 20:58			
13C6-PFDA	79.2		50-140				10/10/24 20:58			
13C7-PFUnA	77.5		30-140				10/10/24 20:58			
13C2-PFDoA	72.2		10-150				10/10/24 20:58			
13C2-PFTeDA	65.0		10-130				10/10/24 20:58			
13C3-PFBS	82.5		55-150				10/10/24 20:58			
13C3-PFHxS	82.4		55-150				10/10/24 20:58			
13C8-PFOS	79.0		45-140				10/10/24 20:58			
13C2-4:2FTS	72.7		60-200				10/10/24 20:58			
13C2-6:2FTS	78.6		60-200				10/10/24 20:58			
13C2-8:2FTS	67.7		50-200				10/10/24 20:58			
13C8-PFOSA	79.2		30-130				10/10/24 20:58			
D3-NMeFOSA	64.1		15-130				10/10/24 20:58			
D5-NEtFOSA	63.2		10-130				10/10/24 20:58			
D3-NMeFOSAA	68.7		45-200				10/10/24 20:58			
D5-NEtFOSAA	74.2		10-200				10/10/24 20:58			
D7-NMeFOSE	71.8		10-150				10/10/24 20:58			
D9-NEtFOSE	70.4		10-150				10/10/24 20:58			
13C3-HFPO-DA	74.6		25-160				10/10/24 20:58			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12D-09112024

Sampled: 9/11/2024 12:40

Sample ID: 24I1930-07

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	ND	10	mg/L	1	H-01	Draft Method 1633	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

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
Acetone	3.2	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 1:40	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1-Dichloroethane	1.4	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 1:40	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.2		70-130				9/19/24 1:40			
Toluene-d8	101		70-130				9/19/24 1:40			
4-Bromofluorobenzene	106		70-130				9/19/24 1:40			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	9.7	0.19	0.031	µg/L	1	B-07	SW-846 8270E	9/16/24	9/18/24 23:22	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.3		15-110				9/18/24 23:22			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

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)	4.6	3.6	1.9	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoropentanoic acid (PFPeA)	2.8	1.8	0.38	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorohexanoic acid (PFHxA)	2.2	0.89	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoroheptanoic acid (PFHpA)	1.3	0.89	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorooctanoic acid (PFOA)	38	0.89	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorononanoic acid (PFNA)	ND	0.89	0.17	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorodecanoic acid (PFDA)	ND	0.89	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.89	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorododecanoic acid (PFDoA)	ND	0.89	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.89	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.89	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorobutanesulfonic acid (PFBS)	0.53	0.89	0.19	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.89	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.89	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.89	0.29	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.89	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.89	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.89	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.89	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.66	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.89	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.89	0.29	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.89	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-MeFOSAA (NMeFOSAA)	ND	0.89	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-EtFOSAA (NEtFOSAA)	ND	0.89	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	8.9	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.9	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.92	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.73	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.86	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
11Cl-PF3OUs (F53B Major)	ND	3.6	0.95	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.9	1.9	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

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	1.8	0.48	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:14	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	67.5		10-130				10/10/24 21:14			
13C5-PFPeA	96.1		35-150				10/10/24 21:14			
13C5-PFHxA	80.0		55-150				10/10/24 21:14			
13C4-PFHpA	77.5		55-150				10/10/24 21:14			
13C8-PFOA	80.0		60-140				10/10/24 21:14			
13C9-PFNA	80.9		55-140				10/10/24 21:14			
13C6-PFDA	80.2		50-140				10/10/24 21:14			
13C7-PFUnA	78.2		30-140				10/10/24 21:14			
13C2-PFDoA	72.8		10-150				10/10/24 21:14			
13C2-PFTeDA	66.4		10-130				10/10/24 21:14			
13C3-PFBS	81.6		55-150				10/10/24 21:14			
13C3-PFHxS	79.8		55-150				10/10/24 21:14			
13C8-PFOS	80.4		45-140				10/10/24 21:14			
13C2-4:2FTS	73.7		60-200				10/10/24 21:14			
13C2-6:2FTS	76.2		60-200				10/10/24 21:14			
13C2-8:2FTS	70.5		50-200				10/10/24 21:14			
13C8-PFOSA	76.1		30-130				10/10/24 21:14			
D3-NMeFOSA	67.7		15-130				10/10/24 21:14			
D5-NEtFOSA	66.8		10-130				10/10/24 21:14			
D3-NMeFOSAA	73.3		45-200				10/10/24 21:14			
D5-NEtFOSAA	78.3		10-200				10/10/24 21:14			
D7-NMeFOSE	73.7		10-150				10/10/24 21:14			
D9-NEtFOSE	73.5		10-150				10/10/24 21:14			
13C3-HFPO-DA	75.9		25-160				10/10/24 21:14			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-4S-09112024

Sampled: 9/11/2024 12:45

Sample ID: 24I1930-08

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	ND	10	mg/L	1		Draft Method 1633	9/18/24	9/18/24 11:54	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12S-09112024

Sampled: 9/11/2024 13:40

Sample ID: 24I1930-09

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.033	µg/L	1		SW-846 8270E	9/21/24	9/24/24 21:13	GJB
1,4-Dioxane	0.086	0.20	0.033	µg/L	1	B, Z-01, J	SW-846 8270E	9/16/24	9/18/24 23:42	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.9		15-110				9/18/24 23:42			
1,4-Dioxane-d8	25.2		15-110				9/24/24 21:13			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12S-09112024

Sampled: 9/11/2024 13:40

Sample ID: 24I1930-09

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)	5.6	3.8	2.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoropentanoic acid (PFPeA)	2.7	1.9	0.41	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorohexanoic acid (PFHxA)	2.3	0.95	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoroheptanoic acid (PFHpA)	1.5	0.95	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorooctanoic acid (PFOA)	8.5	0.95	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorononanoic acid (PFNA)	0.34	0.95	0.18	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorodecanoic acid (PFDA)	ND	0.95	0.20	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.28	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorobutanesulfonic acid (PFBS)	1.4	0.95	0.20	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorohexanesulfonic acid (PFHxS)	0.31	0.95	0.27	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorooctanesulfonic acid (PFOS)	1.2	0.95	0.37	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.71	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluorooctanesulfonamide (PFOSA)	1.1	0.95	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.95	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.38	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.5	2.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.78	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.92	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
11Cl-PF3OUDS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	2.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	11	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12S-09112024

Sampled: 9/11/2024 13:40

Sample ID: 24I1930-09

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	1.9	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:29	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	84.1		10-130				10/10/24 21:29			
13C5-PFPeA	93.0		35-150				10/10/24 21:29			
13C5-PFHxA	76.9		55-150				10/10/24 21:29			
13C4-PFHpA	74.5		55-150				10/10/24 21:29			
13C8-PFOA	80.4		60-140				10/10/24 21:29			
13C9-PFNA	77.6		55-140				10/10/24 21:29			
13C6-PFDA	74.7		50-140				10/10/24 21:29			
13C7-PFUnA	74.5		30-140				10/10/24 21:29			
13C2-PFDoA	74.7		10-150				10/10/24 21:29			
13C2-PFTeDA	66.4		10-130				10/10/24 21:29			
13C3-PFBS	78.8		55-150				10/10/24 21:29			
13C3-PFHxS	75.4		55-150				10/10/24 21:29			
13C8-PFOS	75.4		45-140				10/10/24 21:29			
13C2-4:2FTS	79.5		60-200				10/10/24 21:29			
13C2-6:2FTS	75.8		60-200				10/10/24 21:29			
13C2-8:2FTS	66.1		50-200				10/10/24 21:29			
13C8-PFOSA	70.9		30-130				10/10/24 21:29			
D3-NMeFOSA	59.3		15-130				10/10/24 21:29			
D5-NEtFOSA	59.2		10-130				10/10/24 21:29			
D3-NMeFOSAA	69.6		45-200				10/10/24 21:29			
D5-NEtFOSAA	69.1		10-200				10/10/24 21:29			
D7-NMeFOSE	67.4		10-150				10/10/24 21:29			
D9-NEtFOSE	67.8		10-150				10/10/24 21:29			
13C3-HFPO-DA	73.5		25-160				10/10/24 21:29			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-12S-09112024

Sampled: 9/11/2024 13:40

Sample ID: 24I1930-09

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	12	10	mg/L	1	H-01	Draft Method 1633	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3S-09112024

Sampled: 9/11/2024 15:00

Sample ID: 24I1930-10

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.074	0.20	0.032	µg/L	1	J	SW-846 8270E	9/17/24	9/18/24 15:08	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.5		15-110				9/18/24 15:08			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3S-09112024

Sampled: 9/11/2024 15:00

Sample ID: 24I1930-10

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)	ND	3.6	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorohexanoic acid (PFHxA)	0.36	0.90	0.22	ng/L	1	PF-22, J	Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoroheptanoic acid (PFHpA)	0.78	0.90	0.24	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorooctanoic acid (PFOA)	15	0.90	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorononanoic acid (PFNA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorodecanoic acid (PFDA)	ND	0.90	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorobutanesulfonic acid (PFBS)	0.42	0.90	0.19	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.90	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.90	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.90	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.67	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.29	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.93	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.74	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.86	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.96	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3S-09112024

Sampled: 9/11/2024 15:00

Sample ID: 24I1930-10

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	0.48	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 21:45	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	81.4		10-130				10/10/24 21:45			
13C5-PFPeA	92.0		35-150				10/10/24 21:45			
13C5-PFHxA	77.6		55-150				10/10/24 21:45			
13C4-PFHpA	71.1		55-150				10/10/24 21:45			
13C8-PFOA	71.9		60-140				10/10/24 21:45			
13C9-PFNA	76.1		55-140				10/10/24 21:45			
13C6-PFDA	68.8		50-140				10/10/24 21:45			
13C7-PFUnA	71.6		30-140				10/10/24 21:45			
13C2-PFDoA	67.5		10-150				10/10/24 21:45			
13C2-PFTeDA	64.3		10-130				10/10/24 21:45			
13C3-PFBS	77.7		55-150				10/10/24 21:45			
13C3-PFHxS	76.7		55-150				10/10/24 21:45			
13C8-PFOS	73.4		45-140				10/10/24 21:45			
13C2-4:2FTS	75.0		60-200				10/10/24 21:45			
13C2-6:2FTS	72.0		60-200				10/10/24 21:45			
13C2-8:2FTS	66.0		50-200				10/10/24 21:45			
13C8-PFOSA	68.5		30-130				10/10/24 21:45			
D3-NMeFOSA	59.5		15-130				10/10/24 21:45			
D5-NEtFOSA	57.5		10-130				10/10/24 21:45			
D3-NMeFOSAA	67.0		45-200				10/10/24 21:45			
D5-NEtFOSAA	67.5		10-200				10/10/24 21:45			
D7-NMeFOSE	64.6		10-150				10/10/24 21:45			
D9-NEtFOSE	64.3		10-150				10/10/24 21:45			
13C3-HFPO-DA	71.7		25-160				10/10/24 21:45			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3S-09112024

Sampled: 9/11/2024 15:00

Sample ID: 24I1930-10

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		Draft Method 1633	9/18/24	9/18/24 11:54	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: Field Blank

Sampled: 9/11/2024 16:35

Sample ID: 24I1930-11

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	4.1	2.2	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoropentanoic acid (PFPeA)	ND	2.1	0.44	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorohexanoic acid (PFHxA)	ND	1.0	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorooctanoic acid (PFOA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorononanoic acid (PFNA)	ND	1.0	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorodecanoic acid (PFDA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.0	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.0	0.29	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.0	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	0.77	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	3.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.35	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.37	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.41	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.84	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
9Cl-PF3ONS (F53B Minor)	ND	4.1	0.99	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
11Cl-PF3OUDs (F53B Major)	ND	4.1	1.1	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.2	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	51	12	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	9.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: Field Blank

Sampled: 9/11/2024 16:35

Sample ID: 24I1930-11

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	2.1	0.55	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:01	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	86.9		10-130				10/10/24 22:01			
13C5-PFPeA	98.1		35-150				10/10/24 22:01			
13C5-PFHxA	82.0		55-150				10/10/24 22:01			
13C4-PFHpA	77.6		55-150				10/10/24 22:01			
13C8-PFOA	83.9		60-140				10/10/24 22:01			
13C9-PFNA	84.4		55-140				10/10/24 22:01			
13C6-PFDA	77.1		50-140				10/10/24 22:01			
13C7-PFUnA	74.9		30-140				10/10/24 22:01			
13C2-PFDoA	70.5		10-150				10/10/24 22:01			
13C2-PFTeDA	64.4		10-130				10/10/24 22:01			
13C3-PFBS	80.3		55-150				10/10/24 22:01			
13C3-PFHxS	80.8		55-150				10/10/24 22:01			
13C8-PFOS	79.0		45-140				10/10/24 22:01			
13C2-4:2FTS	69.2		60-200				10/10/24 22:01			
13C2-6:2FTS	76.5		60-200				10/10/24 22:01			
13C2-8:2FTS	68.0		50-200				10/10/24 22:01			
13C8-PFOSA	71.9		30-130				10/10/24 22:01			
D3-NMeFOSA	63.6		15-130				10/10/24 22:01			
D5-NEtFOSA	64.8		10-130				10/10/24 22:01			
D3-NMeFOSAA	72.8		45-200				10/10/24 22:01			
D5-NEtFOSAA	74.6		10-200				10/10/24 22:01			
D7-NMeFOSE	73.1		10-150				10/10/24 22:01			
D9-NEtFOSE	70.9		10-150				10/10/24 22:01			
13C3-HFPO-DA	77.0		25-160				10/10/24 22:01			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: Field Blank

Sampled: 9/11/2024 16:35

Sample ID: 24I1930-11

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	9/17/24	9/17/24 5:28	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-8-09112024

Sampled: 9/11/2024 18:15

Sample ID: 24I1930-12

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	4.2	0.20	0.033	µg/L	1		SW-846 8270E	9/17/24	9/18/24 15:28	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	27.3		15-110				9/18/24 15:28			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-8-09112024

Sampled: 9/11/2024 18:15

Sample ID: 24I1930-12

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	3.7	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.40	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorohexanoic acid (PFHxA)	0.25	0.93	0.22	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorooctanoic acid (PFOA)	1.2	0.93	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorononanoic acid (PFNA)	ND	0.93	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorodecanoic acid (PFDA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.28	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.93	0.20	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.93	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.93	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.70	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.37	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.96	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.77	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.90	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
11Cl-PF3OUs (F53B Major)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	11	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.9	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-8-09112024

Sampled: 9/11/2024 18:15

Sample ID: 24I1930-12

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	1.9	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:16	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	77.0		10-130				10/10/24 22:16			
13C5-PFPeA	96.3		35-150				10/10/24 22:16			
13C5-PFHxA	82.7		55-150				10/10/24 22:16			
13C4-PFHpA	75.9		55-150				10/10/24 22:16			
13C8-PFOA	79.7		60-140				10/10/24 22:16			
13C9-PFNA	79.3		55-140				10/10/24 22:16			
13C6-PFDA	74.9		50-140				10/10/24 22:16			
13C7-PFUnA	76.6		30-140				10/10/24 22:16			
13C2-PFDoA	73.2		10-150				10/10/24 22:16			
13C2-PFTeDA	64.5		10-130				10/10/24 22:16			
13C3-PFBS	81.7		55-150				10/10/24 22:16			
13C3-PFHxS	79.6		55-150				10/10/24 22:16			
13C8-PFOS	79.2		45-140				10/10/24 22:16			
13C2-4:2FTS	71.4		60-200				10/10/24 22:16			
13C2-6:2FTS	78.0		60-200				10/10/24 22:16			
13C2-8:2FTS	70.4		50-200				10/10/24 22:16			
13C8-PFOSA	75.4		30-130				10/10/24 22:16			
D3-NMeFOSA	65.3		15-130				10/10/24 22:16			
D5-NEtFOSA	64.1		10-130				10/10/24 22:16			
D3-NMeFOSAA	67.5		45-200				10/10/24 22:16			
D5-NEtFOSAA	71.9		10-200				10/10/24 22:16			
D7-NMeFOSE	69.5		10-150				10/10/24 22:16			
D9-NEtFOSE	69.3		10-150				10/10/24 22:16			
13C3-HFPO-DA	75.0		25-160				10/10/24 22:16			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-8-09112024

Sampled: 9/11/2024 18:15

Sample ID: 24I1930-12

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	ND	10	mg/L	1		Draft Method 1633	9/17/24	9/17/24 13:43	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: OW-6-09122024

Sampled: 9/12/2024 10:05

Sample ID: 24I1930-13

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.033	µg/L	1		SW-846 8270E	9/17/24	9/19/24 14:59	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.3		15-110				9/19/24 14:59			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: OW-6-09122024

Sampled: 9/12/2024 10:05

Sample ID: 24I1930-13

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)	12	3.7	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoropentanoic acid (PFPeA)	5.4	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorohexanoic acid (PFHxA)	11	0.91	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoroheptanoic acid (PFHpA)	8.8	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorooctanoic acid (PFOA)	60	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorononanoic acid (PFNA)	0.49	0.91	0.17	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorodecanoic acid (PFDA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorobutanesulfonic acid (PFBS)	1.4	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorohexanesulfonic acid (PFHxS)	0.50	0.91	0.26	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorooctanesulfonic acid (PFOS)	0.98	0.91	0.35	ng/L	1	PF-23	Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.68	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.37	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.94	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.75	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.88	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.98	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: OW-6-09122024

Sampled: 9/12/2024 10:05

Sample ID: 24I1930-13

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	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:33	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	92.9		10-130				10/10/24 22:33			
13C5-PFPeA	102		35-150				10/10/24 22:33			
13C5-PFHxA	88.1		55-150				10/10/24 22:33			
13C4-PFHpA	85.4		55-150				10/10/24 22:33			
13C8-PFOA	81.8		60-140				10/10/24 22:33			
13C9-PFNA	83.4		55-140				10/10/24 22:33			
13C6-PFDA	86.6		50-140				10/10/24 22:33			
13C7-PFUnA	80.8		30-140				10/10/24 22:33			
13C2-PFDoA	75.0		10-150				10/10/24 22:33			
13C2-PFTeDA	66.4		10-130				10/10/24 22:33			
13C3-PFBS	90.5		55-150				10/10/24 22:33			
13C3-PFHxS	88.1		55-150				10/10/24 22:33			
13C8-PFOS	82.2		45-140				10/10/24 22:33			
13C2-4:2FTS	84.1		60-200				10/10/24 22:33			
13C2-6:2FTS	81.8		60-200				10/10/24 22:33			
13C2-8:2FTS	83.2		50-200				10/10/24 22:33			
13C8-PFOSA	79.6		30-130				10/10/24 22:33			
D3-NMeFOSA	63.9		15-130				10/10/24 22:33			
D5-NEtFOSA	62.1		10-130				10/10/24 22:33			
D3-NMeFOSAA	73.6		45-200				10/10/24 22:33			
D5-NEtFOSAA	71.6		10-200				10/10/24 22:33			
D7-NMeFOSE	69.1		10-150				10/10/24 22:33			
D9-NEtFOSE	68.8		10-150				10/10/24 22:33			
13C3-HFPO-DA	83.2		25-160				10/10/24 22:33			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: OW-6-09122024

Sampled: 9/12/2024 10:05

Sample ID: 24I1930-13

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	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6D-09122024

Sampled: 9/12/2024 11:32

Sample ID: 24I1930-14

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
Acetone	5.2	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1-Dichloroethane	14	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1-Dichloroethylene	1.6	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
cis-1,2-Dichloroethylene	1.1	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
trans-1,2-Dichloroethylene	0.27	1.0	0.16	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6D-09122024

Sampled: 9/12/2024 11:32

Sample ID: 24I1930-14

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
Methyl tert-Butyl Ether (MTBE)	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1,1-Trichloroethane	0.85	1.0	0.14	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Trichloroethylene	2.5	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:05	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.8		70-130				9/19/24 2:05			
Toluene-d8	101		70-130				9/19/24 2:05			
4-Bromofluorobenzene	106		70-130				9/19/24 2:05			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-6D-09122024 Sampled: 9/12/2024 11:32
Sample ID: 24I1930-14
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	21	0.20	0.033	µg/L	1		SW-846 8270E	9/17/24	9/19/24 15:19	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	20.9		15-110				9/19/24 15:19			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6D-09122024

Sampled: 9/12/2024 11:32

Sample ID: 24I1930-14

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)	2.6	3.7	2.0	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoropentanoic acid (PFPeA)	2.1	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorohexanoic acid (PFHxA)	1.9	0.92	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoroheptanoic acid (PFHpA)	1.2	0.92	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorooctanoic acid (PFOA)	44	0.92	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorononanoic acid (PFNA)	0.19	0.92	0.17	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorodecanoic acid (PFDA)	ND	0.92	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.92	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorododecanoic acid (PFDoA)	ND	0.92	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorobutanesulfonic acid (PFBS)	0.64	0.92	0.19	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.92	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorohexanesulfonic acid (PFHxS)	0.32	0.92	0.26	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorooctanesulfonic acid (PFOS)	0.68	0.92	0.35	ng/L	1	PF-23, J	Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.92	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.69	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-MeFOSAA (NMeFOSAA)	ND	0.92	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-EtFOSAA (NEtFOSAA)	ND	0.92	0.37	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.95	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.75	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.88	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
11Cl-PF3OUDS (F53B Major)	ND	3.7	0.98	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6D-09122024

Sampled: 9/12/2024 11:32

Sample ID: 24I1930-14

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	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 22:49	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.4		10-130				10/10/24 22:49			
13C5-PFPeA	86.7		35-150				10/10/24 22:49			
13C5-PFHxA	71.0		55-150				10/10/24 22:49			
13C4-PFHpA	68.7		55-150				10/10/24 22:49			
13C8-PFOA	70.1		60-140				10/10/24 22:49			
13C9-PFNA	72.5		55-140				10/10/24 22:49			
13C6-PFDA	67.6		50-140				10/10/24 22:49			
13C7-PFUnA	66.9		30-140				10/10/24 22:49			
13C2-PFDoA	61.1		10-150				10/10/24 22:49			
13C2-PFTeDA	55.8		10-130				10/10/24 22:49			
13C3-PFBS	73.0		55-150				10/10/24 22:49			
13C3-PFHxS	71.3		55-150				10/10/24 22:49			
13C8-PFOS	71.7		45-140				10/10/24 22:49			
13C2-4:2FTS	66.6		60-200				10/10/24 22:49			
13C2-6:2FTS	65.8		60-200				10/10/24 22:49			
13C2-8:2FTS	63.6		50-200				10/10/24 22:49			
13C8-PFOSA	64.8		30-130				10/10/24 22:49			
D3-NMeFOSA	52.4		15-130				10/10/24 22:49			
D5-NEtFOSA	50.8		10-130				10/10/24 22:49			
D3-NMeFOSAA	61.3		45-200				10/10/24 22:49			
D5-NEtFOSAA	62.5		10-200				10/10/24 22:49			
D7-NMeFOSE	59.0		10-150				10/10/24 22:49			
D9-NEtFOSE	58.6		10-150				10/10/24 22:49			
13C3-HFPO-DA	68.9		25-160				10/10/24 22:49			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6D-09122024

Sampled: 9/12/2024 11:32

Sample ID: 24I1930-14

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	ND	10	mg/L	1	H-01	Draft Method 1633	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6S-09122024

Sampled: 9/12/2024 14:10

Sample ID: 24I1930-15

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
Acetone	4.9	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 2:31	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1-Dichloroethane	11	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1-Dichloroethylene	1.9	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
cis-1,2-Dichloroethylene	2.1	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6S-09122024

Sampled: 9/12/2024 14:10

Sample ID: 24I1930-15

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1,1-Trichloroethane	10	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Trichloroethylene	73	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/19/24 2:31	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.3		70-130				9/19/24 2:31			
Toluene-d8	99.7		70-130				9/19/24 2:31			
4-Bromofluorobenzene	107		70-130				9/19/24 2:31			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-6S-09122024 Sampled: 9/12/2024 14:10
Sample ID: 24I1930-15
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	2.2	0.20	0.032	µg/L	1		SW-846 8270E	9/17/24	9/19/24 15:40	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	22.4		15-110				9/19/24 15:40			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6S-09122024

Sampled: 9/12/2024 14:10

Sample ID: 24I1930-15

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)	9.1	3.6	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoropentanoic acid (PFPeA)	7.2	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorohexanoic acid (PFHxA)	8.6	0.91	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoroheptanoic acid (PFHpA)	7.7	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorooctanoic acid (PFOA)	84	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorononanoic acid (PFNA)	1.3	0.91	0.17	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorodecanoic acid (PFDA)	1.2	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorobutanesulfonic acid (PFBS)	2.2	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorohexanesulfonic acid (PFHxS)	0.62	0.91	0.25	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorooctanesulfonic acid (PFOS)	3.5	0.91	0.35	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.68	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.7	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.93	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.74	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.87	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.97	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-6S-09122024

Sampled: 9/12/2024 14:10

Sample ID: 24I1930-15

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	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:05	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.8		10-130				10/10/24 23:05			
13C5-PFPeA	87.4		35-150				10/10/24 23:05			
13C5-PFHxA	73.7		55-150				10/10/24 23:05			
13C4-PFHpA	69.1		55-150				10/10/24 23:05			
13C8-PFOA	69.9		60-140				10/10/24 23:05			
13C9-PFNA	69.8		55-140				10/10/24 23:05			
13C6-PFDA	66.6		50-140				10/10/24 23:05			
13C7-PFUnA	70.4		30-140				10/10/24 23:05			
13C2-PFDoA	64.1		10-150				10/10/24 23:05			
13C2-PFTeDA	57.8		10-130				10/10/24 23:05			
13C3-PFBS	74.9		55-150				10/10/24 23:05			
13C3-PFHxS	77.5		55-150				10/10/24 23:05			
13C8-PFOS	70.9		45-140				10/10/24 23:05			
13C2-4:2FTS	85.6		60-200				10/10/24 23:05			
13C2-6:2FTS	67.9		60-200				10/10/24 23:05			
13C2-8:2FTS	64.1		50-200				10/10/24 23:05			
13C8-PFOSA	64.8		30-130				10/10/24 23:05			
D3-NMeFOSA	51.4		15-130				10/10/24 23:05			
D5-NEtFOSA	50.4		10-130				10/10/24 23:05			
D3-NMeFOSAA	55.1		45-200				10/10/24 23:05			
D5-NEtFOSAA	55.0		10-200				10/10/24 23:05			
D7-NMeFOSE	57.1		10-150				10/10/24 23:05			
D9-NEtFOSE	57.6		10-150				10/10/24 23:05			
13C3-HFPO-DA	69.5		25-160				10/10/24 23:05			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-6S-09122024 Sampled: 9/12/2024 14:10
Sample ID: 24I1930-15
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	ND	10	mg/L	1		Draft Method 1633	9/17/24	9/17/24 13:43	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3D-09122024

Sampled: 9/12/2024 12:00

Sample ID: 24I1930-16

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.19	0.19	0.031	µg/L	1	J	SW-846 8270E	9/17/24	9/19/24 16:00	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.0		15-110				9/19/24 16:00			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3D-09122024

Sampled: 9/12/2024 12:00

Sample ID: 24I1930-16

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)	ND	3.6	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoropentanoic acid (PFPeA)	0.71	1.8	0.39	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorohexanoic acid (PFHxA)	1.2	0.91	0.22	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoroheptanoic acid (PFHpA)	1.0	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorooctanoic acid (PFOA)	21	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorodecanoic acid (PFDA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorobutanesulfonic acid (PFBS)	0.32	0.91	0.19	ng/L	1	J	Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.91	0.25	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.91	0.35	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.68	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.8	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.33	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.36	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.75	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.88	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.97	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.6	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3D-09122024

Sampled: 9/12/2024 12:00

Sample ID: 24I1930-16

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	1.8	0.49	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/10/24 23:52	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	71.8		10-130				10/10/24 23:52			
13C5-PFPeA	86.5		35-150				10/10/24 23:52			
13C5-PFHxA	71.1		55-150				10/10/24 23:52			
13C4-PFHpA	68.0		55-150				10/10/24 23:52			
13C8-PFOA	73.8		60-140				10/10/24 23:52			
13C9-PFNA	73.2		55-140				10/10/24 23:52			
13C6-PFDA	69.8		50-140				10/10/24 23:52			
13C7-PFUnA	67.6		30-140				10/10/24 23:52			
13C2-PFDoA	60.7		10-150				10/10/24 23:52			
13C2-PFTeDA	56.1		10-130				10/10/24 23:52			
13C3-PFBS	73.4		55-150				10/10/24 23:52			
13C3-PFHxS	73.4		55-150				10/10/24 23:52			
13C8-PFOS	70.2		45-140				10/10/24 23:52			
13C2-4:2FTS	63.9		60-200				10/10/24 23:52			
13C2-6:2FTS	69.7		60-200				10/10/24 23:52			
13C2-8:2FTS	65.8		50-200				10/10/24 23:52			
13C8-PFOSA	66.3		30-130				10/10/24 23:52			
D3-NMeFOSA	54.1		15-130				10/10/24 23:52			
D5-NEtFOSA	56.2		10-130				10/10/24 23:52			
D3-NMeFOSAA	60.7		45-200				10/10/24 23:52			
D5-NEtFOSAA	60.7		10-200				10/10/24 23:52			
D7-NMeFOSE	59.1		10-150				10/10/24 23:52			
D9-NEtFOSE	58.9		10-150				10/10/24 23:52			
13C3-HFPO-DA	67.6		25-160				10/10/24 23:52			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-3D-09122024

Sampled: 9/12/2024 12:00

Sample ID: 24I1930-16

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	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-11-09122024 Sampled: 9/12/2024 14:35
Sample ID: 24I1930-17
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.19	0.20	0.033	µg/L	1	J	SW-846 8270E	9/17/24	9/19/24 16:20	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.3		15-110				9/19/24 16:20			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-11-09122024

Sampled: 9/12/2024 14:35

Sample ID: 24I1930-17

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)	ND	3.7	2.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.40	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorohexanoic acid (PFHxA)	ND	0.94	0.23	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorooctanoic acid (PFOA)	ND	0.94	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorononanoic acid (PFNA)	ND	0.94	0.18	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorodecanoic acid (PFDA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.28	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.94	0.20	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.94	0.26	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.94	0.36	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.70	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	2.8	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.22	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.94	0.31	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.32	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.34	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.37	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.4	2.6	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.77	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.90	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
11Cl-PF3OUs (F53B Major)	ND	3.7	1.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	2.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	11	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.9	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-11-09122024

Sampled: 9/12/2024 14:35

Sample ID: 24I1930-17

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	0.51	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:08	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	68.8		10-130				10/11/24 0:08			
13C5-PFPeA	95.8		35-150				10/11/24 0:08			
13C5-PFHxA	80.8		55-150				10/11/24 0:08			
13C4-PFHpA	78.5		55-150				10/11/24 0:08			
13C8-PFOA	80.2		60-140				10/11/24 0:08			
13C9-PFNA	82.9		55-140				10/11/24 0:08			
13C6-PFDA	74.8		50-140				10/11/24 0:08			
13C7-PFUnA	75.5		30-140				10/11/24 0:08			
13C2-PFDoA	68.9		10-150				10/11/24 0:08			
13C2-PFTeDA	57.9		10-130				10/11/24 0:08			
13C3-PFBS	80.3		55-150				10/11/24 0:08			
13C3-PFHxS	80.8		55-150				10/11/24 0:08			
13C8-PFOS	78.0		45-140				10/11/24 0:08			
13C2-4:2FTS	71.8		60-200				10/11/24 0:08			
13C2-6:2FTS	77.1		60-200				10/11/24 0:08			
13C2-8:2FTS	69.1		50-200				10/11/24 0:08			
13C8-PFOSA	75.4		30-130				10/11/24 0:08			
D3-NMeFOSA	57.5		15-130				10/11/24 0:08			
D5-NEtFOSA	57.3		10-130				10/11/24 0:08			
D3-NMeFOSAA	66.1		45-200				10/11/24 0:08			
D5-NEtFOSAA	65.1		10-200				10/11/24 0:08			
D7-NMeFOSE	62.5		10-150				10/11/24 0:08			
D9-NEtFOSE	60.8		10-150				10/11/24 0:08			
13C3-HFPO-DA	77.4		25-160				10/11/24 0:08			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-11-09122024

Sampled: 9/12/2024 14:35

Sample ID: 24I1930-17

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		Draft Method 1633	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: Trip Blank

Sampled: 9/12/2024 00:00

Sample ID: 24I1930-18

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
Acetone	4.5	50	2.0	µg/L	1	J	SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Amyl Alcohol (TAA)	ND	5.0	1.3	µg/L	1	L-04, V-05	SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Butyl Alcohol (TBA)	ND	20	3.4	µg/L	1	V-05	SW-846 8260D	9/17/24	9/18/24 23:06	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Ethanol	ND	50	20	µg/L	1	V-05	SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: Trip Blank

Sampled: 9/12/2024 00:00

Sample ID: 24I1930-18

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
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/17/24	9/18/24 23:06	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.9		70-130				9/18/24 23:06			
Toluene-d8	101		70-130				9/18/24 23:06			
4-Bromofluorobenzene	107		70-130				9/18/24 23:06			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-2-09102024 Sampled: 9/12/2024 17:05
Sample ID: 24I1930-19
Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.21	0.034	µg/L	1		SW-846 8270E	9/17/24	9/19/24 16:40	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.9		15-110				9/19/24 16:40			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-2-09102024

Sampled: 9/12/2024 17:05

Sample ID: 24I1930-19

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	3.6	2.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.39	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorohexanoic acid (PFHxA)	ND	0.91	0.22	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorooctanoic acid (PFOA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorodecanoic acid (PFDA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.18	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.91	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.91	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.91	0.35	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.26	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.68	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.8	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.30	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.31	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.33	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.36	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.5	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.75	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.88	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.98	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	2.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.6	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.51	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-2-09102024

Sampled: 9/12/2024 17:05

Sample ID: 24I1930-19

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	0.49	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:24	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.6		10-130				10/11/24 0:24			
13C5-PFPeA	87.5		35-150				10/11/24 0:24			
13C5-PFHxA	72.7		55-150				10/11/24 0:24			
13C4-PFHpA	67.6		55-150				10/11/24 0:24			
13C8-PFOA	70.7		60-140				10/11/24 0:24			
13C9-PFNA	69.3		55-140				10/11/24 0:24			
13C6-PFDA	68.6		50-140				10/11/24 0:24			
13C7-PFUnA	68.5		30-140				10/11/24 0:24			
13C2-PFDoA	61.4		10-150				10/11/24 0:24			
13C2-PFTeDA	55.2		10-130				10/11/24 0:24			
13C3-PFBS	71.1		55-150				10/11/24 0:24			
13C3-PFHxS	71.8		55-150				10/11/24 0:24			
13C8-PFOS	67.1		45-140				10/11/24 0:24			
13C2-4:2FTS	65.9		60-200				10/11/24 0:24			
13C2-6:2FTS	73.0		60-200				10/11/24 0:24			
13C2-8:2FTS	66.0		50-200				10/11/24 0:24			
13C8-PFOSA	63.7		30-130				10/11/24 0:24			
D3-NMeFOSA	49.8		15-130				10/11/24 0:24			
D5-NEtFOSA	48.6		10-130				10/11/24 0:24			
D3-NMeFOSAA	59.3		45-200				10/11/24 0:24			
D5-NEtFOSAA	56.6		10-200				10/11/24 0:24			
D7-NMeFOSE	56.5		10-150				10/11/24 0:24			
D9-NEtFOSE	55.8		10-150				10/11/24 0:24			
13C3-HFPO-DA	69.7		25-160				10/11/24 0:24			

Project Location: Staatsburg, NY

Date Received: 9/13/2024

Field Sample #: MW-2-09102024

Sample ID: 24I1930-19

Sample Matrix: Ground Water

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

Sample Description:

Sampled: 9/12/2024 17:05

Work Order: 24I1930

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	9/17/24	9/17/24 13:30	LL

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-9-09112024

Sampled: 9/11/2024 16:50

Sample ID: 24I1930-20

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.070	0.20	0.033	µg/L	1	J	SW-846 8270E	9/17/24	9/19/24 17:00	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.0		15-110				9/19/24 17:00			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-9-09112024

Sampled: 9/11/2024 16:50

Sample ID: 24I1930-20

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)	3.4	3.8	2.1	ng/L	1	J	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoropentanoic acid (PFPeA)	1.4	1.9	0.41	ng/L	1	J	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorohexanoic acid (PFHxA)	1.4	0.96	0.23	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoroheptanoic acid (PFHpA)	1.5	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorooctanoic acid (PFOA)	15	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorononanoic acid (PFNA)	0.31	0.96	0.18	ng/L	1	J	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorodecanoic acid (PFDA)	ND	0.96	0.20	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.19	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorobutanesulfonic acid (PFBS)	0.89	0.96	0.20	ng/L	1	J	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorohexanesulfonic acid (PFHxS)	0.43	0.96	0.27	ng/L	1	J	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorooctanesulfonic acid (PFOS)	2.6	0.96	0.37	ng/L	1	PF-23	Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.24	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.72	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	0.22	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.31	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.32	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.34	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.38	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.6	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.79	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.92	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
11Cl-PF3OUDS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	2.1	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	11	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.1	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-9-09112024

Sampled: 9/11/2024 16:50

Sample ID: 24I1930-20

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	0.52	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	10/9/24	10/11/24 0:39	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.2		10-130				10/11/24 0:39			
13C5-PFPeA	93.1		35-150				10/11/24 0:39			
13C5-PFHxA	75.3		55-150				10/11/24 0:39			
13C4-PFHpA	74.3		55-150				10/11/24 0:39			
13C8-PFOA	73.0		60-140				10/11/24 0:39			
13C9-PFNA	75.8		55-140				10/11/24 0:39			
13C6-PFDA	71.1		50-140				10/11/24 0:39			
13C7-PFUnA	71.9		30-140				10/11/24 0:39			
13C2-PFDoA	66.1		10-150				10/11/24 0:39			
13C2-PFTeDA	61.7		10-130				10/11/24 0:39			
13C3-PFBS	76.6		55-150				10/11/24 0:39			
13C3-PFHxS	76.3		55-150				10/11/24 0:39			
13C8-PFOS	70.0		45-140				10/11/24 0:39			
13C2-4:2FTS	82.1		60-200				10/11/24 0:39			
13C2-6:2FTS	73.2		60-200				10/11/24 0:39			
13C2-8:2FTS	64.3		50-200				10/11/24 0:39			
13C8-PFOSA	66.4		30-130				10/11/24 0:39			
D3-NMeFOSA	54.6		15-130				10/11/24 0:39			
D5-NEtFOSA	52.7		10-130				10/11/24 0:39			
D3-NMeFOSAA	64.4		45-200				10/11/24 0:39			
D5-NEtFOSAA	63.8		10-200				10/11/24 0:39			
D7-NMeFOSE	59.8		10-150				10/11/24 0:39			
D9-NEtFOSE	58.9		10-150				10/11/24 0:39			
13C3-HFPO-DA	73.9		25-160				10/11/24 0:39			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-9-09112024 Sampled: 9/11/2024 16:50
Sample ID: 24I1930-20
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	9/19/24	9/19/24 13:42	II

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-10-09112024

Sampled: 9/11/2024 15:15

Sample ID: 24I1930-21

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.050	0.20	0.033	µg/L	1	J	SW-846 8270E	9/17/24	9/19/24 17:20	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.7		15-110				9/19/24 17:20			

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-10-09112024

Sampled: 9/11/2024 15:15

Sample ID: 24I1930-21

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)	4.2	3.9	2.1	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoropentanoic acid (PFPeA)	1.4	2.0	0.42	ng/L	1	J	Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorohexanoic acid (PFHxA)	0.47	0.98	0.23	ng/L	1	J	Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoroheptanoic acid (PFHpA)	0.31	0.98	0.26	ng/L	1	J	Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorooctanoic acid (PFOA)	8.0	0.98	0.26	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorononanoic acid (PFNA)	1.0	0.98	0.18	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorodecanoic acid (PFDA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorododecanoic acid (PFDoA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	0.29	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	0.25	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorobutanesulfonic acid (PFBS)	1.9	0.98	0.21	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	0.25	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorohexanesulfonic acid (PFHxS)	0.85	0.98	0.27	ng/L	1	J	Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	0.32	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorooctanesulfonic acid (PFOS)	3.2	0.98	0.38	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.98	0.25	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.73	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	3.0	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	0.23	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	0.32	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	0.33	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-MeFOSAA (NMeFOSAA)	ND	0.98	0.35	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-EtFOSAA (NEtFOSAA)	ND	0.98	0.39	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	2.7	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	2.6	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.80	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.94	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
11Cl-PF3OUs (F53B Major)	ND	3.9	1.0	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	2.1	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	49	11	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	9.3	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.34	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB

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

Project Location: Staatsburg, NY

Sample Description:

Work Order: 24I1930

Date Received: 9/13/2024

Field Sample #: MW-10-09112024

Sampled: 9/11/2024 15:15

Sample ID: 24I1930-21

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	0.53	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	10/2/24	10/4/24 3:24	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.7		10-130				10/4/24 3:24			
13C5-PFPeA	84.1		35-150				10/4/24 3:24			
13C5-PFHxA	69.1		55-150				10/4/24 3:24			
13C4-PFHpA	67.0		55-150				10/4/24 3:24			
13C8-PFOA	66.0		60-140				10/4/24 3:24			
13C9-PFNA	66.2		55-140				10/4/24 3:24			
13C6-PFDA	64.0		50-140				10/4/24 3:24			
13C7-PFUnA	61.8		30-140				10/4/24 3:24			
13C2-PFDoA	54.7		10-150				10/4/24 3:24			
13C2-PFTeDA	47.7		10-130				10/4/24 3:24			
13C3-PFBS	68.1		55-150				10/4/24 3:24			
13C3-PFHxS	68.2		55-150				10/4/24 3:24			
13C8-PFOS	66.3		45-140				10/4/24 3:24			
13C2-4:2FTS	90.9		60-200				10/4/24 3:24			
13C2-6:2FTS	75.6		60-200				10/4/24 3:24			
13C2-8:2FTS	56.5		50-200				10/4/24 3:24			
13C8-PFOSA	56.6		30-130				10/4/24 3:24			
D3-NMeFOSA	44.4		15-130				10/4/24 3:24			
D5-NEtFOSA	43.3		10-130				10/4/24 3:24			
D3-NMeFOSAA	63.3		45-200				10/4/24 3:24			
D5-NEtFOSAA	66.1		10-200				10/4/24 3:24			
D7-NMeFOSE	45.5		10-150				10/4/24 3:24			
D9-NEtFOSE	44.2		10-150				10/4/24 3:24			
13C3-HFPO-DA	65.6		25-160				10/4/24 3:24			

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

Project Location: Staatsburg, NY Sample Description: Work Order: 24I1930
Date Received: 9/13/2024
Field Sample #: MW-10-09112024 Sampled: 9/11/2024 15:15
Sample ID: 24I1930-21
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	9/19/24	9/19/24 13:42	II

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

Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24I1930-01 [MW-5-09102024]	B386255	50.0	09/17/24
24I1930-02 [MW-7S-09102024]	B386255	50.0	09/17/24
24I1930-03 [MW-1-09102024]	B386255	50.0	09/17/24
24I1930-05 [DUP-09102024]	B386255	50.0	09/17/24
24I1930-17 [MW-11-09122024]	B386255	50.0	09/17/24
24I1930-19 [MW-2-09102024]	B386255	50.0	09/17/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24I1930-12 [MW-8-09112024]	B386256	50.0	09/17/24
24I1930-15 [MW-6S-09122024]	B386256	50.0	09/17/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24I1930-11 [Field Blank]	B386257	50.0	09/17/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24I1930-04 [MW-7D-09102024]	B386341	50.0	09/18/24
24I1930-06 [MW-4D-09112024]	B386341	50.0	09/18/24
24I1930-08 [MW-4S-09112024]	B386341	50.0	09/18/24
24I1930-10 [MW-3S-09112024]	B386341	50.0	09/18/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24I1930-07 [MW-12D-09112024]	B386561	50.0	09/19/24
24I1930-09 [MW-12S-09112024]	B386561	50.0	09/19/24
24I1930-13 [OW-6-09122024]	B386561	50.0	09/19/24
24I1930-14 [MW-6D-09122024]	B386561	50.0	09/19/24
24I1930-16 [MW-3D-09122024]	B386561	50.0	09/19/24
24I1930-20 [MW-9-09112024]	B386561	50.0	09/19/24
24I1930-21 [MW-10-09112024]	B386561	50.0	09/19/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 9/19/2024 per NO PREP in Batch B386561

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-21 [MW-10-09112024]	B387576	511	5.00	10/02/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 9/18/2024 per NO PREP in Batch B386341

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-06 [MW-4D-09112024]	B387736	549	5.00	10/09/24
24I1930-07 [MW-12D-09112024]	B387736	521	5.00	10/09/24

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

Sample Extraction Data**Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 9/18/2024 per NO PREP in Batch B386341**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-08 [MW-4S-09112024]	B387736	562	5.00	10/09/24
24I1930-09 [MW-12S-09112024]	B387736	526	5.00	10/09/24
24I1930-10 [MW-3S-09112024]	B387736	557	5.00	10/09/24
24I1930-11 [Field Blank]	B387736	487	5.00	10/09/24
24I1930-12 [MW-8-09112024]	B387736	535	5.00	10/09/24
24I1930-13 [OW-6-09122024]	B387736	547	5.00	10/09/24
24I1930-14 [MW-6D-09122024]	B387736	545	5.00	10/09/24
24I1930-15 [MW-6S-09122024]	B387736	552	5.00	10/09/24
24I1930-16 [MW-3D-09122024]	B387736	550	5.00	10/09/24
24I1930-17 [MW-11-09122024]	B387736	534	5.00	10/09/24
24I1930-19 [MW-2-09102024]	B387736	550	5.00	10/09/24
24I1930-20 [MW-9-09112024]	B387736	522	5.00	10/09/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 9/17/2024 per NO PREP in Batch B386255

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-01 [MW-5-09102024]	B388184	538	5.00	10/08/24
24I1930-02 [MW-7S-09102024]	B388184	535	5.00	10/08/24
24I1930-03 [MW-1-09102024]	B388184	522	5.00	10/08/24
24I1930-04 [MW-7D-09102024]	B388184	547	5.00	10/08/24
24I1930-05 [DUP-09102024]	B388184	508	5.00	10/08/24

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-02 [MW-7S-09102024]	B386339	5	5.00	09/17/24
24I1930-03 [MW-1-09102024]	B386339	5	5.00	09/17/24
24I1930-04 [MW-7D-09102024]	B386339	5	5.00	09/17/24
24I1930-05 [DUP-09102024]	B386339	5	5.00	09/17/24
24I1930-07 [MW-12D-09112024]	B386339	5	5.00	09/17/24
24I1930-08 [MW-4S-09112024]	B386339	5	5.00	09/17/24
24I1930-14 [MW-6D-09122024]	B386339	5	5.00	09/17/24
24I1930-15 [MW-6S-09122024]	B386339	5	5.00	09/17/24
24I1930-18 [Trip Blank]	B386339	5	5.00	09/17/24

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-01 [MW-5-09102024]	B386221	980	1.00	09/16/24
24I1930-02 [MW-7S-09102024]	B386221	1040	1.00	09/16/24
24I1930-03 [MW-1-09102024]	B386221	980	1.00	09/16/24
24I1930-04 [MW-7D-09102024]	B386221	1040	1.00	09/16/24
24I1930-05 [DUP-09102024]	B386221	990	1.00	09/16/24
24I1930-06 [MW-4D-09112024]	B386221	1040	1.00	09/16/24
24I1930-07 [MW-12D-09112024]	B386221	990	1.00	09/16/24
24I1930-08 [MW-4S-09112024]	B386221	1040	1.00	09/16/24
24I1930-09 [MW-12S-09112024]	B386221	990	1.00	09/16/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:SW-846 3510C Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-10 [MW-3S-09112024]	B386359	1020	1.00	09/17/24
24I1930-12 [MW-8-09112024]	B386359	980	1.00	09/17/24
24I1930-13 [OW-6-09122024]	B386359	1000	1.00	09/17/24
24I1930-14 [MW-6D-09122024]	B386359	1000	1.00	09/17/24
24I1930-15 [MW-6S-09122024]	B386359	1020	1.00	09/17/24
24I1930-16 [MW-3D-09122024]	B386359	1040	1.00	09/17/24
24I1930-17 [MW-11-09122024]	B386359	980	1.00	09/17/24
24I1930-19 [MW-2-09102024]	B386359	950	1.00	09/17/24
24I1930-20 [MW-9-09112024]	B386359	980	1.00	09/17/24
24I1930-21 [MW-10-09112024]	B386359	980	1.00	09/17/24

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24I1930-02RE1 [MW-7S-09102024]	B386835	1040	1.00	09/21/24
24I1930-09RE1 [MW-12S-09112024]	B386835	980	1.00	09/21/24

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	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B386339 - SW-846 5030B										
Blank (B386339-BLK1)				Prepared: 09/17/24 Analyzed: 09/18/24						
Acetone	ND	50	µg/L							
tert-Amyl Alcohol (TAA)	ND	5.0	µg/L							L-04, V-05
tert-Amyl Ethyl Ether (TAEE)	ND	0.50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							V-05
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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 B386339 - SW-846 5030B
Blank (B386339-BLK1)

Prepared: 09/17/24 Analyzed: 09/18/24

Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.00		97.8	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.00		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.00		105	70-130			

LCS (B386339-BS1)

Prepared: 09/17/24 Analyzed: 09/18/24

Acetone	96.1	50	µg/L	100.0		96.1	70-160			†
tert-Amyl Alcohol (TAA)	57.2	5.0	µg/L	100.0		57.2	* 70-130			L-04, V-05
tert-Amyl Ethyl Ether (TAE)	10.5	0.50	µg/L	10.00		105	70-130			
tert-Amyl Methyl Ether (TAME)	9.55	0.50	µg/L	10.00		95.5	70-130			
Benzene	9.27	1.0	µg/L	10.00		92.7	70-130			
Bromochloromethane	11.4	1.0	µg/L	10.00		114	70-130			
Bromodichloromethane	11.1	0.50	µg/L	10.00		111	70-130			
Bromoform	11.8	1.0	µg/L	10.00		118	70-130			
Bromomethane	12.0	2.0	µg/L	10.00		120	40-160			†
2-Butanone (MEK)	101	20	µg/L	100.0		101	40-160			†
tert-Butyl Alcohol (TBA)	60.8	20	µg/L	100.0		60.8	40-160			V-05 †
n-Butylbenzene	8.33	1.0	µg/L	10.00		83.3	70-130			
sec-Butylbenzene	8.74	1.0	µg/L	10.00		87.4	70-130			
tert-Butylbenzene	9.44	1.0	µg/L	10.00		94.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.0	0.50	µg/L	10.00		100	70-130			
Carbon Disulfide	117	5.0	µg/L	100.0		117	70-130			
Carbon Tetrachloride	10.8	5.0	µg/L	10.00		108	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.00		107	70-130			
Chlorodibromomethane	11.6	0.50	µg/L	10.00		116	70-130			
Chloroethane	10.4	2.0	µg/L	10.00		104	70-130			
Chloroform	10.1	2.0	µg/L	10.00		101	70-130			
Chloromethane	12.4	2.0	µg/L	10.00		124	40-160			†
Cyclohexane	10.2	5.0	µg/L	10.00		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.23	5.0	µg/L	10.00		82.3	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.00		104	70-130			
1,2-Dichlorobenzene	9.81	1.0	µg/L	10.00		98.1	70-130			
1,3-Dichlorobenzene	9.72	1.0	µg/L	10.00		97.2	70-130			
1,4-Dichlorobenzene	9.50	1.0	µg/L	10.00		95.0	70-130			
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.00		103	40-160			†
1,1-Dichloroethane	9.62	1.0	µg/L	10.00		96.2	70-130			
1,2-Dichloroethane	9.41	1.0	µg/L	10.00		94.1	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 B386339 - SW-846 5030B
LCS (B386339-BS1)

Prepared: 09/17/24 Analyzed: 09/18/24

1,1-Dichloroethylene	11.0	1.0	µg/L	10.00		110	70-130			
cis-1,2-Dichloroethylene	9.80	1.0	µg/L	10.00		98.0	70-130			
trans-1,2-Dichloroethylene	9.78	1.0	µg/L	10.00		97.8	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.00		102	70-130			
cis-1,3-Dichloropropene	9.90	0.50	µg/L	10.00		99.0	70-130			
trans-1,3-Dichloropropene	9.89	0.50	µg/L	10.00		98.9	70-130			
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.00		122	70-130			
Ethanol	72.8	50	µg/L	100.0		72.8	40-160			V-05
Ethylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
2-Hexanone (MBK)	112	10	µg/L	100.0		112	70-160			†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.00		103	70-130			
p-Isopropyltoluene (p-Cymene)	8.94	1.0	µg/L	10.00		89.4	70-130			
Methyl Acetate	9.64	1.0	µg/L	10.00		96.4	70-130			
Methyl tert-Butyl Ether (MTBE)	9.66	1.0	µg/L	10.00		96.6	70-130			
Methyl Cyclohexane	9.26	1.0	µg/L	10.00		92.6	70-130			
Methylene Chloride	11.9	5.0	µg/L	10.00		119	70-130			V-06
4-Methyl-2-pentanone (MIBK)	118	10	µg/L	100.0		118	70-160			V-20 †
Naphthalene	8.16	2.0	µg/L	10.00		81.6	40-130			†
n-Propylbenzene	10.1	1.0	µg/L	10.00		101	70-130			
Styrene	10.1	1.0	µg/L	10.00		101	70-130			
1,1,2,2-Tetrachloroethane	9.95	0.50	µg/L	10.00		99.5	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.00		108	70-130			
Toluene	9.90	1.0	µg/L	10.00		99.0	70-130			
1,2,3-Trichlorobenzene	8.93	5.0	µg/L	10.00		89.3	70-130			
1,2,4-Trichlorobenzene	8.99	1.0	µg/L	10.00		89.9	70-130			
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.00		100	70-130			
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.00		101	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.00		102	70-130			
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.00		117	70-130			
1,2,3-Trichloropropane	9.98	2.0	µg/L	10.00		99.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00		104	70-130			
1,2,4-Trimethylbenzene	9.09	1.0	µg/L	10.00		90.9	70-130			
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00		101	70-130			
Vinyl Chloride	11.5	2.0	µg/L	10.00		115	40-160			†
m+p Xylene	20.7	2.0	µg/L	20.00		104	70-130			
o-Xylene	10.8	1.0	µg/L	10.00		108	70-130			
Xylenes (total)	31.5	1.0	µg/L	30.00		105	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.00		98.8	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.00		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	26.4		µg/L	25.00		106	70-130			

LCS Dup (B386339-BS1)

Prepared: 09/17/24 Analyzed: 09/18/24

Acetone	96.2	50	µg/L	100.0		96.2	70-160	0.0728	25	†
tert-Amyl Alcohol (TAA)	58.1	5.0	µg/L	100.0		58.1	* 70-130	1.49	25	L-04, V-05
tert-Amyl Ethyl Ether (TAEE)	10.7	0.50	µg/L	10.00		107	70-130	1.79	25	
tert-Amyl Methyl Ether (TAME)	9.58	0.50	µg/L	10.00		95.8	70-130	0.314	25	
Benzene	9.40	1.0	µg/L	10.00		94.0	70-130	1.39	25	
Bromochloromethane	11.6	1.0	µg/L	10.00		116	70-130	1.56	25	
Bromodichloromethane	11.0	0.50	µg/L	10.00		110	70-130	1.45	25	
Bromoform	12.2	1.0	µg/L	10.00		122	70-130	3.00	25	
Bromomethane	10.3	2.0	µg/L	10.00		103	40-160	15.7	25	†
2-Butanone (MEK)	96.3	20	µg/L	100.0		96.3	40-160	4.48	25	†

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 B386339 - SW-846 5030B										
LCS Dup (B386339-BSD1)					Prepared: 09/17/24 Analyzed: 09/18/24					
tert-Butyl Alcohol (TBA)	63.1	20	µg/L	100.0		63.1	40-160	3.61	25	V-05 †
n-Butylbenzene	8.72	1.0	µg/L	10.00		87.2	70-130	4.57	25	
sec-Butylbenzene	9.18	1.0	µg/L	10.00		91.8	70-130	4.91	25	
tert-Butylbenzene	9.85	1.0	µg/L	10.00		98.5	70-130	4.25	25	
tert-Butyl Ethyl Ether (TBEE)	9.99	0.50	µg/L	10.00		99.9	70-130	0.400	25	
Carbon Disulfide	121	5.0	µg/L	100.0		121	70-130	3.92	25	
Carbon Tetrachloride	10.9	5.0	µg/L	10.00		109	70-130	0.827	25	
Chlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	0.835	25	
Chlorodibromomethane	11.5	0.50	µg/L	10.00		115	70-130	1.13	25	
Chloroethane	11.2	2.0	µg/L	10.00		112	70-130	7.41	25	
Chloroform	10.2	2.0	µg/L	10.00		102	70-130	1.38	25	
Chloromethane	12.8	2.0	µg/L	10.00		128	40-160	2.94	25	†
Cyclohexane	10.5	5.0	µg/L	10.00		105	70-130	3.18	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.61	5.0	µg/L	10.00		86.1	70-130	4.51	25	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.00		105	70-130	0.954	25	
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.00		100	70-130	2.32	25	
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.00		101	70-130	3.64	25	
1,4-Dichlorobenzene	9.77	1.0	µg/L	10.00		97.7	70-130	2.80	25	
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.00		104	40-160	0.579	25	†
1,1-Dichloroethane	10.0	1.0	µg/L	10.00		100	70-130	3.87	25	
1,2-Dichloroethane	9.47	1.0	µg/L	10.00		94.7	70-130	0.636	25	
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	1.89	25	
cis-1,2-Dichloroethylene	9.98	1.0	µg/L	10.00		99.8	70-130	1.82	25	
trans-1,2-Dichloroethylene	9.89	1.0	µg/L	10.00		98.9	70-130	1.12	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.00		102	70-130	0.882	25	
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.00		100	70-130	1.50	25	
trans-1,3-Dichloropropene	9.97	0.50	µg/L	10.00		99.7	70-130	0.806	25	
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.00		122	70-130	0.492	25	
Ethanol	64.6	50	µg/L	100.0		64.6	40-160	11.8	25	V-05
Ethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	2.11	25	
2-Hexanone (MBK)	111	10	µg/L	100.0		111	70-160	0.825	25	†
Isopropylbenzene (Cumene)	10.7	1.0	µg/L	10.00		107	70-130	4.10	25	
p-Isopropyltoluene (p-Cymene)	9.27	1.0	µg/L	10.00		92.7	70-130	3.62	25	
Methyl Acetate	9.81	1.0	µg/L	10.00		98.1	70-130	1.75	25	
Methyl tert-Butyl Ether (MTBE)	9.62	1.0	µg/L	10.00		96.2	70-130	0.415	25	
Methyl Cyclohexane	9.52	1.0	µg/L	10.00		95.2	70-130	2.77	25	
Methylene Chloride	12.0	5.0	µg/L	10.00		120	70-130	0.502	25	V-06
4-Methyl-2-pentanone (MIBK)	117	10	µg/L	100.0		117	70-160	0.848	25	V-20 †
Naphthalene	8.50	2.0	µg/L	10.00		85.0	40-130	4.08	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.00		106	70-130	4.74	25	
Styrene	10.5	1.0	µg/L	10.00		105	70-130	4.17	25	
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.00		103	70-130	3.46	25	
Tetrachloroethylene	11.1	1.0	µg/L	10.00		111	70-130	2.47	25	
Toluene	10.3	1.0	µg/L	10.00		103	70-130	3.77	25	
1,2,3-Trichlorobenzene	9.20	5.0	µg/L	10.00		92.0	70-130	2.98	25	
1,2,4-Trichlorobenzene	9.44	1.0	µg/L	10.00		94.4	70-130	4.88	25	
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.00		103	70-130	2.66	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.00		103	70-130	2.16	25	
Trichloroethylene	10.5	1.0	µg/L	10.00		105	70-130	2.69	25	
Trichlorofluoromethane (Freon 11)	11.8	2.0	µg/L	10.00		118	70-130	0.938	25	
1,2,3-Trichloropropane	9.92	2.0	µg/L	10.00		99.2	70-130	0.603	25	

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 B386339 - SW-846 5030B										
LCS Dup (B386339-BSD1)				Prepared: 09/17/24 Analyzed: 09/18/24						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.00		105	70-130	0.959	25	
1,2,4-Trimethylbenzene	9.15	1.0	µg/L	10.00		91.5	70-130	0.658	25	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	3.90	25	
Vinyl Chloride	12.1	2.0	µg/L	10.00		121	40-160	5.42	25	†
m+p Xylene	21.7	2.0	µg/L	20.00		108	70-130	4.62	25	
o-Xylene	11.2	1.0	µg/L	10.00		112	70-130	3.81	25	
Xylenes (total)	32.9	1.0	µg/L	30.00		110	0-200	4.35		
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.00		95.6	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.00		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	27.4		µg/L	25.00		109	70-130			
Matrix Spike (B386339-MS1)				Source: 24I1930-02		Prepared: 09/17/24 Analyzed: 09/19/24				
Acetone	104	50	µg/L	100.0	3.86	100	70-130			
tert-Amyl Alcohol (TAA)	63.0	5.0	µg/L	100.0	ND	63.0	*	70-130		L-04, MS-09, V-05
tert-Amyl Ethyl Ether (TAE)	10.4	0.50	µg/L	10.00	ND	104	70-130			
tert-Amyl Methyl Ether (TAME)	9.41	0.50	µg/L	10.00	ND	94.1	70-130			
Benzene	9.69	1.0	µg/L	10.00	ND	96.9	70-130			
Bromochloromethane	12.1	1.0	µg/L	10.00	ND	121	70-130			
Bromodichloromethane	11.5	0.50	µg/L	10.00	ND	115	70-130			
Bromoform	12.4	1.0	µg/L	10.00	ND	124	70-130			
Bromomethane	9.13	2.0	µg/L	10.00	ND	91.3	70-130			
2-Butanone (MEK)	101	20	µg/L	100.0	ND	101	70-130			
tert-Butyl Alcohol (TBA)	65.2	20	µg/L	100.0	ND	65.2	*	70-130		MS-09, V-05
n-Butylbenzene	9.34	1.0	µg/L	10.00	ND	93.4	70-130			
sec-Butylbenzene	9.61	1.0	µg/L	10.00	ND	96.1	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.00	ND	105	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.00	ND	104	70-130			
Carbon Disulfide	131	5.0	µg/L	100.0	ND	131	*	70-130		MS-24
Carbon Tetrachloride	11.6	5.0	µg/L	10.00	ND	116	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.00	ND	113	70-130			
Chlorodibromomethane	11.8	0.50	µg/L	10.00	ND	118	70-130			
Chloroethane	12.8	2.0	µg/L	10.00	ND	128	70-130			
Chloroform	10.6	2.0	µg/L	10.00	ND	106	70-130			
Chloromethane	14.0	2.0	µg/L	10.00	ND	140	*	70-130		MS-15
Cyclohexane	11.4	5.0	µg/L	10.00	ND	114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.34	5.0	µg/L	10.00	ND	83.4	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.00	ND	112	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.00	ND	103	70-130			
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00	ND	107	70-130			
Dichlorodifluoromethane (Freon 12)	10.8	2.0	µg/L	10.00	ND	108	70-130			
1,1-Dichloroethane	12.7	1.0	µg/L	10.00	2.32	104	70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.00	ND	100	70-130			
1,1-Dichloroethylene	12.6	1.0	µg/L	10.00	0.690	119	70-130			
cis-1,2-Dichloroethylene	21.5	1.0	µg/L	10.00	10.4	111	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00	0.230	103	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.00	ND	106	70-130			
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.00	ND	97.4	70-130			
trans-1,3-Dichloropropene	9.77	0.50	µg/L	10.00	ND	97.7	70-130			
Diisopropyl Ether (DIPE)	12.8	0.50	µg/L	10.00	ND	128	70-130			
Ethanol	81.5	50	µg/L	100.0	ND	81.5	70-130			

V-05

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 B386339 - SW-846 5030B										
Matrix Spike (B386339-MS1)	Source: 24I1930-02			Prepared: 09/17/24 Analyzed: 09/19/24						
Ethylbenzene	10.9	1.0	µg/L	10.00	ND	109	70-130			
2-Hexanone (MBK)	115	10	µg/L	100.0	ND	115	70-130			
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.00	ND	115	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.00	ND	102	70-130			
Methyl Acetate	6.88	1.0	µg/L	10.00	ND	68.8	* 70-130			MS-07A
Methyl tert-Butyl Ether (MTBE)	9.59	1.0	µg/L	10.00	ND	95.9	70-130			
Methyl Cyclohexane	10.4	1.0	µg/L	10.00	ND	104	70-130			
Methylene Chloride	12.8	5.0	µg/L	10.00	ND	128	70-130			V-06
4-Methyl-2-pentanone (MIBK)	122	10	µg/L	100.0	ND	122	70-130			V-20
Naphthalene	8.80	2.0	µg/L	10.00	ND	88.0	70-130			
n-Propylbenzene	11.1	1.0	µg/L	10.00	ND	111	70-130			
Styrene	11.0	1.0	µg/L	10.00	ND	110	70-130			
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.00	ND	104	70-130			
Tetrachloroethylene	12.1	1.0	µg/L	10.00	0.390	117	70-130			
Toluene	10.4	1.0	µg/L	10.00	ND	104	70-130			
1,2,3-Trichlorobenzene	9.56	5.0	µg/L	10.00	ND	95.6	70-130			
1,2,4-Trichlorobenzene	9.79	1.0	µg/L	10.00	ND	97.9	70-130			
1,1,1-Trichloroethane	12.3	1.0	µg/L	10.00	1.42	108	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.00	ND	102	70-130			
Trichloroethylene	186	1.0	µg/L	10.00	172	141	* 70-130			MS-19
Trichlorofluoromethane (Freon 11)	12.8	2.0	µg/L	10.00	ND	128	70-130			
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.00	ND	103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.00	ND	114	70-130			
1,2,4-Trimethylbenzene	9.87	1.0	µg/L	10.00	ND	98.7	70-130			
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.00	ND	112	70-130			
Vinyl Chloride	13.1	2.0	µg/L	10.00	ND	131	* 70-130			MS-15
m+p Xylene	22.8	2.0	µg/L	20.00	ND	114	70-130			
o-Xylene	11.4	1.0	µg/L	10.00	ND	114	70-130			
Xylenes (total)	34.2	1.0	µg/L	30.00	ND	114	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.00		97.6	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.00		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	27.5		µg/L	25.00		110	70-130			
Matrix Spike Dup (B386339-MSD1)	Source: 24I1930-02			Prepared: 09/17/24 Analyzed: 09/19/24						
Acetone	102	50	µg/L	100.0	3.86	97.7	70-130	2.37	30	
tert-Amyl Alcohol (TAA)	64.8	5.0	µg/L	100.0	ND	64.8	* 70-130	2.68	30	L-04, MS-09, V-05
tert-Amyl Ethyl Ether (TAEE)	10.6	0.50	µg/L	10.00	ND	106	70-130	1.33	30	
tert-Amyl Methyl Ether (TAME)	9.61	0.50	µg/L	10.00	ND	96.1	70-130	2.10	30	
Benzene	9.48	1.0	µg/L	10.00	ND	94.8	70-130	2.19	30	
Bromochloromethane	12.1	1.0	µg/L	10.00	ND	121	70-130	0.165	30	
Bromodichloromethane	11.6	0.50	µg/L	10.00	ND	116	70-130	0.954	30	
Bromoform	12.1	1.0	µg/L	10.00	ND	121	70-130	2.77	30	
Bromomethane	9.37	2.0	µg/L	10.00	ND	93.7	70-130	2.59	30	
2-Butanone (MEK)	104	20	µg/L	100.0	ND	104	70-130	3.40	30	
tert-Butyl Alcohol (TBA)	67.8	20	µg/L	100.0	ND	67.8	* 70-130	3.83	30	MS-09, V-05
n-Butylbenzene	8.98	1.0	µg/L	10.00	ND	89.8	70-130	3.93	30	
sec-Butylbenzene	9.46	1.0	µg/L	10.00	ND	94.6	70-130	1.57	30	
tert-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	2.70	30	
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.00	ND	102	70-130	1.75	30	
Carbon Disulfide	126	5.0	µg/L	100.0	ND	126	70-130	3.98	30	
Carbon Tetrachloride	11.5	5.0	µg/L	10.00	ND	115	70-130	1.04	30	

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 B386339 - SW-846 5030B										
Matrix Spike Dup (B386339-MSD1)	Source: 2411930-02			Prepared: 09/17/24 Analyzed: 09/19/24						
Chlorobenzene	11.3	1.0	µg/L	10.00	ND	113	70-130	0.177	30	
Chlorodibromomethane	11.7	0.50	µg/L	10.00	ND	117	70-130	0.340	30	
Chloroethane	11.8	2.0	µg/L	10.00	ND	118	70-130	8.21	30	
Chloroform	10.6	2.0	µg/L	10.00	ND	106	70-130	0.284	30	
Chloromethane	13.8	2.0	µg/L	10.00	ND	138	* 70-130	1.29	30	MS-15
Cyclohexane	11.4	5.0	µg/L	10.00	ND	114	70-130	0.613	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.46	5.0	µg/L	10.00	ND	84.6	70-130	1.43	30	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00	ND	110	70-130	1.98	30	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.00	ND	104	70-130	1.62	30	
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	1.36	30	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	4.30	30	
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.00	ND	117	70-130	7.84	30	
1,1-Dichloroethane	12.5	1.0	µg/L	10.00	2.32	102	70-130	1.51	30	
1,2-Dichloroethane	10.0	1.0	µg/L	10.00	ND	100	70-130	0.0997	30	
1,1-Dichloroethylene	12.4	1.0	µg/L	10.00	0.690	117	70-130	2.08	30	
cis-1,2-Dichloroethylene	20.9	1.0	µg/L	10.00	10.4	105	70-130	2.79	30	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00	0.230	104	70-130	0.851	30	
1,2-Dichloropropane	10.6	1.0	µg/L	10.00	ND	106	70-130	0.755	30	
cis-1,3-Dichloropropene	9.67	0.50	µg/L	10.00	ND	96.7	70-130	0.721	30	
trans-1,3-Dichloropropene	9.69	0.50	µg/L	10.00	ND	96.9	70-130	0.822	30	
Diisopropyl Ether (DIPE)	12.7	0.50	µg/L	10.00	ND	127	70-130	1.33	30	
Ethanol	78.1	50	µg/L	100.0	ND	78.1	70-130	4.24	30	V-05
Ethylbenzene	11.1	1.0	µg/L	10.00	ND	111	70-130	1.73	30	
2-Hexanone (MBK)	119	10	µg/L	100.0	ND	119	70-130	3.62	30	
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.00	ND	111	70-130	3.28	30	
p-Isopropyltoluene (p-Cymene)	9.72	1.0	µg/L	10.00	ND	97.2	70-130	4.33	30	
Methyl Acetate	6.90	1.0	µg/L	10.00	ND	69.0	* 70-130	0.290	30	MS-07A
Methyl tert-Butyl Ether (MTBE)	9.85	1.0	µg/L	10.00	ND	98.5	70-130	2.67	30	
Methyl Cyclohexane	10.3	1.0	µg/L	10.00	ND	103	70-130	1.64	30	
Methylene Chloride	12.8	5.0	µg/L	10.00	ND	128	70-130	0.546	30	V-06
4-Methyl-2-pentanone (MIBK)	125	10	µg/L	100.0	ND	125	70-130	2.07	30	V-20
Naphthalene	8.53	2.0	µg/L	10.00	ND	85.3	70-130	3.12	30	
n-Propylbenzene	10.9	1.0	µg/L	10.00	ND	109	70-130	1.46	30	
Styrene	12.4	1.0	µg/L	10.00	ND	124	70-130	12.2	30	
1,1,2,2-Tetrachloroethane	11.6	0.50	µg/L	10.00	ND	116	70-130	11.0	30	
Tetrachloroethylene	12.2	1.0	µg/L	10.00	0.390	118	70-130	1.07	30	
Toluene	10.6	1.0	µg/L	10.00	ND	106	70-130	2.76	30	
1,2,3-Trichlorobenzene	9.38	5.0	µg/L	10.00	ND	93.8	70-130	1.90	30	
1,2,4-Trichlorobenzene	9.40	1.0	µg/L	10.00	ND	94.0	70-130	4.06	30	
1,1,1-Trichloroethane	12.3	1.0	µg/L	10.00	1.42	108	70-130	0.0815	30	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.00	ND	104	70-130	1.74	30	
Trichloroethylene	188	1.0	µg/L	10.00	172	166	* 70-130	1.35	30	MS-19
Trichlorofluoromethane (Freon 11)	12.8	2.0	µg/L	10.00	ND	128	70-130	0.00	30	
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.00	ND	114	70-130	10.2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.00	ND	112	70-130	1.59	30	
1,2,4-Trimethylbenzene	9.52	1.0	µg/L	10.00	ND	95.2	70-130	3.61	30	
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.00	ND	109	70-130	2.54	30	
Vinyl Chloride	13.1	2.0	µg/L	10.00	ND	131	* 70-130	0.0761	30	MS-15
m+p Xylene	22.2	2.0	µg/L	20.00	ND	111	70-130	2.84	20	
o-Xylene	13.0	1.0	µg/L	10.00	ND	130	70-130	13.3	30	
Xylenes (total)	35.2	1.0	µg/L	30.00	ND	117	0-200	2.82		

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 B386339 - SW-846 5030B**Matrix Spike Dup (B386339-MSD1)****Source: 2411930-02**

Prepared: 09/17/24 Analyzed: 09/19/24

Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.00		99.8	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.00		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	27.6		µg/L	25.00		110	70-130			

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

QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B386221 - SW-846 3510C										
Blank (B386221-BLK1)				Prepared: 09/16/24 Analyzed: 09/20/24						
1,4-Dioxane	0.089	0.20	µg/L							B, J
Surrogate: 1,4-Dioxane-d8	2.09		µg/L	10.00		20.9	15-110			
LCS (B386221-BS1)				Prepared: 09/16/24 Analyzed: 09/18/24						
1,4-Dioxane	7.02	0.20	µg/L	10.00		70.2	40-140			
Surrogate: 1,4-Dioxane-d8	3.07		µg/L	10.00		30.7	15-110			
LCS Dup (B386221-BSD1)				Prepared: 09/16/24 Analyzed: 09/18/24						
1,4-Dioxane	7.35	0.20	µg/L	10.00		73.5	40-140	4.56	30	
Surrogate: 1,4-Dioxane-d8	2.94		µg/L	10.00		29.4	15-110			
Matrix Spike (B386221-MS1)				Source: 2411930-02		Prepared: 09/16/24 Analyzed: 09/18/24				
1,4-Dioxane	8.08	0.19	µg/L	9.615	0.512	78.7	30-140			
Surrogate: 1,4-Dioxane-d8	0.782		µg/L	9.615		8.13 *	15-110			S-26
Matrix Spike Dup (B386221-MSD1)				Source: 2411930-02		Prepared: 09/16/24 Analyzed: 09/18/24				
1,4-Dioxane	8.30	0.19	µg/L	9.615	0.512	81.0	30-140	2.75	30	
Surrogate: 1,4-Dioxane-d8	2.60		µg/L	9.615		27.0	15-110			
Batch B386359 - SW-846 3510C										
Blank (B386359-BLK1)				Prepared: 09/17/24 Analyzed: 09/18/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.69		µg/L	10.00		26.9	15-110			
LCS (B386359-BS1)				Prepared: 09/17/24 Analyzed: 09/18/24						
1,4-Dioxane	8.64	0.20	µg/L	10.00		86.4	40-140			
Surrogate: 1,4-Dioxane-d8	3.11		µg/L	10.00		31.1	15-110			
LCS Dup (B386359-BSD1)				Prepared: 09/17/24 Analyzed: 09/18/24						
1,4-Dioxane	9.83	0.20	µg/L	10.00		98.3	40-140	12.9	30	
Surrogate: 1,4-Dioxane-d8	3.14		µg/L	10.00		31.4	15-110			
Batch B386835 - SW-846 3510C										
Blank (B386835-BLK1)				Prepared: 09/21/24 Analyzed: 09/24/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.37		µg/L	10.00		23.7	15-110			
LCS (B386835-BS1)				Prepared: 09/21/24 Analyzed: 09/24/24						
1,4-Dioxane	8.71	0.20	µg/L	10.00		87.1	40-140			
Surrogate: 1,4-Dioxane-d8	2.74		µg/L	10.00		27.4	15-110			

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

QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B386835 - SW-846 3510C
LCS Dup (B386835-BSD1)

Prepared: 09/21/24 Analyzed: 09/24/24

1,4-Dioxane	9.46	0.20	µg/L	10.00		94.6	40-140	8.32	30	
Surrogate: 1,4-Dioxane-d8	5.22		µg/L	20.00		26.1	15-110			

Matrix Spike (B386835-MS1)
Source: 24I1930-02RE1

Prepared: 09/21/24 Analyzed: 09/24/24

1,4-Dioxane	10.3	0.20	µg/L	10.00	0.674	96.6	30-140			
Surrogate: 1,4-Dioxane-d8	1.95		µg/L	10.00		19.5	15-110			

Matrix Spike Dup (B386835-MSD1)
Source: 24I1930-02RE1

Prepared: 09/21/24 Analyzed: 09/24/24

1,4-Dioxane	10.3	0.20	µg/L	10.00	0.674	95.8	30-140	0.806	30	
Surrogate: 1,4-Dioxane-d8	2.16		µg/L	10.00		21.6	15-110			

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 B387576 - Draft Method 1633										
Blank (B387576-BLK1)				Prepared: 10/02/24 Analyzed: 10/03/24						
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-Dioxo-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	80.3		ng/L	97.63		82.2	10-130			

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 B387576 - Draft Method 1633
Blank (B387576-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

Surrogate: 13C5-PFPeA	45.4		ng/L	48.81		92.9	35-150			
Surrogate: 13C5-PFHxA	19.1		ng/L	24.41		78.3	55-150			
Surrogate: 13C4-PFHpA	18.4		ng/L	24.41		75.4	55-150			
Surrogate: 13C8-PFOA	19.8		ng/L	24.41		81.2	60-140			
Surrogate: 13C9-PFNA	9.38		ng/L	12.20		76.9	55-140			
Surrogate: 13C6-PFDA	9.50		ng/L	12.20		77.8	50-140			
Surrogate: 13C7-PFUnA	9.58		ng/L	12.20		78.5	30-140			
Surrogate: 13C2-PFDoA	8.77		ng/L	12.20		71.9	10-150			
Surrogate: 13C2-PFTeDA	8.37		ng/L	12.20		68.5	10-130			
Surrogate: 13C3-PFBS	19.1		ng/L	24.41		78.3	55-150			
Surrogate: 13C3-PFHxS	19.9		ng/L	24.41		81.4	55-150			
Surrogate: 13C8-PFOS	18.0		ng/L	24.41		73.9	45-140			
Surrogate: 13C2-4:2FTS	34.6		ng/L	48.81		70.9	60-200			
Surrogate: 13C2-6:2FTS	38.2		ng/L	48.81		78.3	60-200			
Surrogate: 13C2-8:2FTS	35.3		ng/L	48.81		72.3	50-200			
Surrogate: 13C8-PFOA	16.4		ng/L	24.41		67.1	30-130			
Surrogate: D3-NMeFOSA	12.6		ng/L	24.41		51.6	15-130			
Surrogate: D5-NEtFOSA	13.2		ng/L	24.41		54.3	10-130			
Surrogate: D3-NMeFOSAA	35.6		ng/L	48.81		72.9	45-200			
Surrogate: D5-NEtFOSAA	40.1		ng/L	48.81		82.1	10-200			
Surrogate: D7-NMeFOSE	160		ng/L	244.1		65.6	10-150			
Surrogate: D9-NEtFOSE	164		ng/L	244.1		67.1	10-150			
Surrogate: 13C3-HFPO-DA	72.3		ng/L	97.63		74.0	25-160			

LCS (B387576-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

Perfluorobutanoic acid (PFBA)	95.8	3.9	ng/L	93.80		102	58-148			
Perfluoropentanoic acid (PFPeA)	50.5	2.0	ng/L	46.90		108	54-152			
Perfluorohexanoic acid (PFHxA)	24.7	0.98	ng/L	23.45		105	55-152			
Perfluoroheptanoic acid (PFHpA)	23.2	0.98	ng/L	23.45		98.8	54-154			
Perfluorooctanoic acid (PFOA)	23.2	0.98	ng/L	23.45		99.1	52-161			
Perfluorononanoic acid (PFNA)	25.3	0.98	ng/L	23.45		108	59-149			
Perfluorodecanoic acid (PFDA)	23.9	0.98	ng/L	23.45		102	52-147			
Perfluoroundecanoic acid (PFUnA)	23.9	0.98	ng/L	23.45		102	48-159			
Perfluorododecanoic acid (PFDoA)	23.1	0.98	ng/L	23.45		98.5	64-142			
Perfluorotridecanoic acid (PFTTrDA)	24.6	0.98	ng/L	23.45		105	49-148			
Perfluorotetradecanoic acid (PFTeDA)	23.9	0.98	ng/L	23.45		102	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.8	0.98	ng/L	20.81		99.9	62-144			
Perfluoropentanesulfonic acid (PFPeS)	23.5	0.98	ng/L	22.04		107	59-151			
Perfluorohexanesulfonic acid (PFHxS)	20.2	0.98	ng/L	21.46		93.9	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	24.3	0.98	ng/L	22.34		109	55-152			
Perfluorooctanesulfonic acid (PFOS)	22.5	0.98	ng/L	21.75		103	58-149			
Perfluorononanesulfonic acid (PFNS)	22.7	0.98	ng/L	22.57		101	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.0	0.98	ng/L	22.63		97.4	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.0	0.98	ng/L	22.75		87.8	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.3	3.9	ng/L	87.94		108	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	3.9	ng/L	89.11		115	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.2	3.9	ng/L	90.29		110	63-152			
Perfluorooctanesulfonamide (PFOSA)	23.5	0.98	ng/L	23.45		100	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	26.7	0.98	ng/L	23.45		114	63-145			

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 B387576 - Draft Method 1633
LCS (B387576-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	28.5	0.98	ng/L	23.45		122	65-139			
N-MeFOSAA (NMeFOSAA)	26.8	0.98	ng/L	23.45		114	58-144			
N-EtFOSAA (NEtFOSAA)	21.7	0.98	ng/L	23.45		92.6	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	252	9.8	ng/L	234.5		107	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	243	9.8	ng/L	234.5		104	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	101	3.9	ng/L	93.80		108	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	102	3.9	ng/L	88.53		116	68-146			
9Cl-PF3ONS (F53B Minor)	96.9	3.9	ng/L	87.94		110	56-156			
11Cl-PF3OUdS (F53B Major)	87.3	3.9	ng/L	88.53		98.6	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	192	9.8	ng/L	234.5		81.7	62-129			
2H ₂ 2H ₃ 3H ₃ H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	1180	49	ng/L	1173		101	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1030	49	ng/L	1173		87.9	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	52.2	2.0	ng/L	41.74		125	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	44.8	2.0	ng/L	46.90		95.5	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	51.3	2.0	ng/L	46.90		109	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.5	2.0	ng/L	46.90		86.3	48-161			
Surrogate: 13C4-PFBA	79.1		ng/L	97.71		81.0	10-130			
Surrogate: 13C5-PFPeA	43.6		ng/L	48.86		89.3	35-150			
Surrogate: 13C5-PFHxA	19.1		ng/L	24.43		78.2	55-150			
Surrogate: 13C4-PFHpA	17.6		ng/L	24.43		72.1	55-150			
Surrogate: 13C8-PFOA	19.8		ng/L	24.43		81.1	60-140			
Surrogate: 13C9-PFNA	9.43		ng/L	12.21		77.2	55-140			
Surrogate: 13C6-PFDA	9.32		ng/L	12.21		76.3	50-140			
Surrogate: 13C7-PFUnA	9.89		ng/L	12.21		81.0	30-140			
Surrogate: 13C2-PFDoA	9.15		ng/L	12.21		74.9	10-150			
Surrogate: 13C2-PFTeDA	8.16		ng/L	12.21		66.8	10-130			
Surrogate: 13C3-PFBS	18.6		ng/L	24.43		76.0	55-150			
Surrogate: 13C3-PFHxS	18.9		ng/L	24.43		77.3	55-150			
Surrogate: 13C8-PFOS	18.3		ng/L	24.43		75.1	45-140			
Surrogate: 13C2-4:2FTS	36.8		ng/L	48.86		75.3	60-200			
Surrogate: 13C2-6:2FTS	37.2		ng/L	48.86		76.1	60-200			
Surrogate: 13C2-8:2FTS	36.0		ng/L	48.86		73.8	50-200			
Surrogate: 13C8-PFOSA	16.1		ng/L	24.43		65.8	30-130			
Surrogate: D3-NMeFOSA	13.1		ng/L	24.43		53.7	15-130			
Surrogate: D5-NEtFOSA	13.5		ng/L	24.43		55.1	10-130			
Surrogate: D3-NMeFOSAA	36.2		ng/L	48.86		74.2	45-200			
Surrogate: D5-NEtFOSAA	41.7		ng/L	48.86		85.4	10-200			
Surrogate: D7-NMeFOSE	156		ng/L	244.3		63.9	10-150			
Surrogate: D9-NEtFOSE	164		ng/L	244.3		67.2	10-150			
Surrogate: 13C3-HFPO-DA	70.9		ng/L	97.71		72.6	25-160			

MRL Check (B387576-MRL1)

Prepared: 10/02/24 Analyzed: 10/03/24

Perfluorobutanoic acid (PFBA)	8.22	3.9	ng/L	7.816		105	44-157			
Perfluoropentanoic acid (PFPeA)	4.36	2.0	ng/L	3.908		112	57-148			

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 B387576 - Draft Method 1633
MRL Check (B387576-MRL1)

Prepared: 10/02/24 Analyzed: 10/03/24

Perfluorohexanoic acid (PFHxA)	2.21	0.98	ng/L	1.954		113	62-149			
Perfluoroheptanoic acid (PFHpA)	2.08	0.98	ng/L	1.954		107	56-150			
Perfluorooctanoic acid (PFOA)	1.99	0.98	ng/L	1.954		102	57-161			
Perfluorononanoic acid (PFNA)	2.09	0.98	ng/L	1.954		107	53-157			
Perfluorodecanoic acid (PFDA)	2.58	0.98	ng/L	1.954		132	43-158			
Perfluoroundecanoic acid (PFUnA)	2.09	0.98	ng/L	1.954		107	50-155			
Perfluorododecanoic acid (PFDoA)	2.16	0.98	ng/L	1.954		111	60-141			
Perfluorotridecanoic acid (PFTrDA)	2.09	0.98	ng/L	1.954		107	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.12	0.98	ng/L	1.954		109	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.81	0.98	ng/L	1.734		104	63-145			
Perfluoropentanesulfonic acid (PFPeS)	2.02	0.98	ng/L	1.837		110	58-144			
Perfluorohexanesulfonic acid (PFHxS)	2.04	0.98	ng/L	1.788		114	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.04	0.98	ng/L	1.861		110	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.22	0.98	ng/L	1.812		123	43-162			
Perfluorononanesulfonic acid (PFNS)	1.97	0.98	ng/L	1.881		105	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.80	0.98	ng/L	1.886		95.6	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.46	0.98	ng/L	1.895		77.2	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.28	3.9	ng/L	7.328		113	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.05	3.9	ng/L	7.425		108	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.08	3.9	ng/L	7.523		107	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.02	0.98	ng/L	1.954		104	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.29	0.98	ng/L	1.954		117	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.20	0.98	ng/L	1.954		112	49-156			
N-MeFOSAA (NMeFOSAA)	2.21	0.98	ng/L	1.954		113	32-160			
N-EtFOSAA (NEtFOSAA)	1.73	0.98	ng/L	1.954		88.8	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	21.2	9.8	ng/L	19.54		109	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.8	9.8	ng/L	19.54		106	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.33	3.9	ng/L	7.816		107	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.52	3.9	ng/L	7.376		116	61-148			
9Cl-PF3ONS (F53B Minor)	7.91	3.9	ng/L	7.328		108	44-167			
11Cl-PF3OUDS (F53B Major)	7.33	3.9	ng/L	7.376		99.4	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.3	9.8	ng/L	19.54		78.1	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	93.9	49	ng/L	97.70		96.1	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	82.0	49	ng/L	97.70		83.9	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.03	2.0	ng/L	3.478		116	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.45	2.0	ng/L	3.908		88.3	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.81	2.0	ng/L	3.908		97.6	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.94	2.0	ng/L	3.908		101	47-160			
Surrogate: 13C4-PFBA	78.9		ng/L	97.70		80.8	10-130			
Surrogate: 13C5-PFPeA	43.9		ng/L	48.85		89.8	35-150			
Surrogate: 13C5-PFHxA	18.6		ng/L	24.43		76.3	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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B387576 - Draft Method 1633
MRL Check (B387576-MRL1)

Prepared: 10/02/24 Analyzed: 10/03/24

Surrogate: 13C4-PFHpA	17.5		ng/L	24.43		71.6	55-150			
Surrogate: 13C8-PFOA	19.4		ng/L	24.43		79.5	60-140			
Surrogate: 13C9-PFNA	9.47		ng/L	12.21		77.6	55-140			
Surrogate: 13C6-PFDA	8.86		ng/L	12.21		72.5	50-140			
Surrogate: 13C7-PFUnA	9.52		ng/L	12.21		78.0	30-140			
Surrogate: 13C2-PFDoA	8.46		ng/L	12.21		69.3	10-150			
Surrogate: 13C2-PFTeDA	7.05		ng/L	12.21		57.7	10-130			
Surrogate: 13C3-PFBS	18.8		ng/L	24.43		77.1	55-150			
Surrogate: 13C3-PFHxS	19.2		ng/L	24.43		78.5	55-150			
Surrogate: 13C8-PFOS	18.3		ng/L	24.43		74.9	45-140			
Surrogate: 13C2-4:2FTS	34.1		ng/L	48.85		69.9	60-200			
Surrogate: 13C2-6:2FTS	36.8		ng/L	48.85		75.4	60-200			
Surrogate: 13C2-8:2FTS	36.3		ng/L	48.85		74.3	50-200			
Surrogate: 13C8-PFOSA	15.7		ng/L	24.43		64.2	30-130			
Surrogate: D3-NMeFOSA	12.9		ng/L	24.43		52.8	15-130			
Surrogate: D5-NEtFOSA	13.1		ng/L	24.43		53.5	10-130			
Surrogate: D3-NMeFOSAA	35.7		ng/L	48.85		73.1	45-200			
Surrogate: D5-NEtFOSAA	41.2		ng/L	48.85		84.3	10-200			
Surrogate: D7-NMeFOSE	148		ng/L	244.3		60.7	10-150			
Surrogate: D9-NEtFOSE	154		ng/L	244.3		62.9	10-150			
Surrogate: 13C3-HFPO-DA	68.3		ng/L	97.70		69.9	25-160			

Batch B387736 - Draft Method 1633
Blank (B387736-BLK1)

Prepared: 10/09/24 Analyzed: 10/10/24

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

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 B387736 - Draft Method 1633
Blank (B387736-BLK1)

Prepared: 10/09/24 Analyzed: 10/10/24

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	50	ng/L
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	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	103		ng/L	99.06		104	10-130
Surrogate: 13C5-PFPeA	57.2		ng/L	49.53		116	35-150
Surrogate: 13C5-PFHxA	24.6		ng/L	24.77		99.4	55-150
Surrogate: 13C4-PFHpA	23.0		ng/L	24.77		93.1	55-150
Surrogate: 13C8-PFOA	24.8		ng/L	24.77		100	60-140
Surrogate: 13C9-PFNA	13.2		ng/L	12.38		106	55-140
Surrogate: 13C6-PFDA	12.6		ng/L	12.38		102	50-140
Surrogate: 13C7-PFUnA	12.1		ng/L	12.38		97.6	30-140
Surrogate: 13C2-PFDoA	11.9		ng/L	12.38		95.9	10-150
Surrogate: 13C2-PFTeDA	10.9		ng/L	12.38		88.1	10-130
Surrogate: 13C3-PFBS	25.1		ng/L	24.77		101	55-150
Surrogate: 13C3-PFHxS	25.5		ng/L	24.77		103	55-150
Surrogate: 13C8-PFOS	26.2		ng/L	24.77		106	45-140
Surrogate: 13C2-4:2FTS	43.3		ng/L	49.53		87.5	60-200
Surrogate: 13C2-6:2FTS	45.3		ng/L	49.53		91.5	60-200
Surrogate: 13C2-8:2FTS	46.2		ng/L	49.53		93.3	50-200
Surrogate: 13C8-PFOSA	25.3		ng/L	24.77		102	30-130
Surrogate: D3-NMeFOSA	22.2		ng/L	24.77		89.6	15-130
Surrogate: D5-NEtFOSA	22.1		ng/L	24.77		89.1	10-130
Surrogate: D3-NMeFOSAA	48.8		ng/L	49.53		98.5	45-200
Surrogate: D5-NEtFOSAA	51.2		ng/L	49.53		103	10-200
Surrogate: D7-NMeFOSE	264		ng/L	247.7		107	10-150
Surrogate: D9-NEtFOSE	255		ng/L	247.7		103	10-150
Surrogate: 13C3-HFPO-DA	94.4		ng/L	99.06		95.3	25-160

LCS (B387736-BS1)

Prepared: 10/09/24 Analyzed: 10/10/24

Perfluorobutanoic acid (PFBA)	96.1	3.9	ng/L	93.76		103	58-148
Perfluoropentanoic acid (PFPeA)	50.1	2.0	ng/L	46.88		107	54-152

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 B387736 - Draft Method 1633										
LCS (B387736-BS1)										
				Prepared: 10/09/24 Analyzed: 10/10/24						
Perfluorohexanoic acid (PFHxA)	23.9	0.98	ng/L	23.44		102	55-152			
Perfluoroheptanoic acid (PFHpA)	23.9	0.98	ng/L	23.44		102	54-154			
Perfluorooctanoic acid (PFOA)	23.4	0.98	ng/L	23.44		99.7	52-161			
Perfluorononanoic acid (PFNA)	25.5	0.98	ng/L	23.44		109	59-149			
Perfluorodecanoic acid (PFDA)	23.4	0.98	ng/L	23.44		100	52-147			
Perfluoroundecanoic acid (PFUnA)	23.5	0.98	ng/L	23.44		100	48-159			
Perfluorododecanoic acid (PFDoA)	23.7	0.98	ng/L	23.44		101	64-142			
Perfluorotridecanoic acid (PFTrDA)	25.7	0.98	ng/L	23.44		110	49-148			
Perfluorotetradecanoic acid (PFTeDA)	24.3	0.98	ng/L	23.44		104	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.0	0.98	ng/L	20.80		96.0	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.6	0.98	ng/L	22.03		102	59-151			
Perfluorohexanesulfonic acid (PFHxS)	20.3	0.98	ng/L	21.45		94.5	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.5	0.98	ng/L	22.33		105	55-152			
Perfluorooctanesulfonic acid (PFOS)	22.3	0.98	ng/L	21.74		102	58-149			
Perfluorononanesulfonic acid (PFNS)	22.4	0.98	ng/L	22.56		99.1	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.5	0.98	ng/L	22.62		99.7	51-147			
Perfluorododecanesulfonic acid (PFDoS)	22.4	0.98	ng/L	22.74		98.3	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	94.6	3.9	ng/L	87.90		108	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.4	3.9	ng/L	89.07		112	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.9	3.9	ng/L	90.24		106	63-152			
Perfluorooctanesulfonamide (PFOSA)	23.2	0.98	ng/L	23.44		99.1	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	26.5	0.98	ng/L	23.44		113	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	26.9	0.98	ng/L	23.44		115	65-139			
N-MeFOSAA (NMeFOSAA)	27.1	0.98	ng/L	23.44		116	58-144			
N-EtFOSAA (NEtFOSAA)	21.6	0.98	ng/L	23.44		92.2	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	247	9.8	ng/L	234.4		105	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	242	9.8	ng/L	234.4		103	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	98.8	3.9	ng/L	93.76		105	63-144			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	98.6	3.9	ng/L	88.49		111	68-146			
9Cl-PF3ONS (F53B Minor)	91.3	3.9	ng/L	87.90		104	56-156			
11Cl-PF3OUDS (F53B Major)	87.9	3.9	ng/L	88.49		99.3	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	186	9.8	ng/L	234.4		79.5	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1110	49	ng/L	1172		94.9	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1000	49	ng/L	1172		85.4	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	47.1	2.0	ng/L	41.72		113	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.9	2.0	ng/L	46.88		87.2	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	46.4	2.0	ng/L	46.88		99.0	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	43.2	2.0	ng/L	46.88		92.2	48-161			
Surrogate: 13C4-PFBA	80.8		ng/L	97.67		82.7	10-130			
Surrogate: 13C5-PFPeA	45.2		ng/L	48.83		92.6	35-150			
Surrogate: 13C5-PFHxA	19.1		ng/L	24.42		78.2	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 Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch B387736 - Draft Method 1633
LCS (B387736-BS1)

Prepared: 10/09/24 Analyzed: 10/10/24

Surrogate: 13C4-PFHpA	17.5		ng/L	24.42		71.6	55-150		
Surrogate: 13C8-PFOA	19.1		ng/L	24.42		78.4	60-140		
Surrogate: 13C9-PFNA	9.34		ng/L	12.21		76.5	55-140		
Surrogate: 13C6-PFDA	9.49		ng/L	12.21		77.7	50-140		
Surrogate: 13C7-PFUnA	9.81		ng/L	12.21		80.4	30-140		
Surrogate: 13C2-PFDoA	8.93		ng/L	12.21		73.1	10-150		
Surrogate: 13C2-PFTeDA	8.52		ng/L	12.21		69.8	10-130		
Surrogate: 13C3-PFBS	19.3		ng/L	24.42		79.0	55-150		
Surrogate: 13C3-PFHxS	19.2		ng/L	24.42		78.7	55-150		
Surrogate: 13C8-PFOS	18.8		ng/L	24.42		77.1	45-140		
Surrogate: 13C2-4:2FTS	37.2		ng/L	48.83		76.2	60-200		
Surrogate: 13C2-6:2FTS	37.7		ng/L	48.83		77.1	60-200		
Surrogate: 13C2-8:2FTS	38.5		ng/L	48.83		78.7	50-200		
Surrogate: 13C8-PFOSA	17.9		ng/L	24.42		73.5	30-130		
Surrogate: D3-NMeFOSA	14.8		ng/L	24.42		60.5	15-130		
Surrogate: D5-NEtFOSA	15.2		ng/L	24.42		62.4	10-130		
Surrogate: D3-NMeFOSAA	37.0		ng/L	48.83		75.7	45-200		
Surrogate: D5-NEtFOSAA	37.1		ng/L	48.83		76.0	10-200		
Surrogate: D7-NMeFOSE	181		ng/L	244.2		74.2	10-150		
Surrogate: D9-NEtFOSE	182		ng/L	244.2		74.5	10-150		
Surrogate: 13C3-HFPO-DA	71.4		ng/L	97.67		73.1	25-160		

MRL Check (B387736-MRL1)

Prepared: 10/09/24 Analyzed: 10/10/24

Perfluorobutanoic acid (PFBA)	8.58	3.9	ng/L	7.815		110	44-157		
Perfluoropentanoic acid (PFPeA)	4.31	2.0	ng/L	3.907		110	57-148		
Perfluorohexanoic acid (PFHxA)	2.14	0.98	ng/L	1.954		109	62-149		
Perfluoroheptanoic acid (PFHpA)	2.09	0.98	ng/L	1.954		107	56-150		
Perfluorooctanoic acid (PFOA)	2.02	0.98	ng/L	1.954		103	57-161		
Perfluorononanoic acid (PFNA)	2.16	0.98	ng/L	1.954		111	53-157		
Perfluorodecanoic acid (PFDA)	2.10	0.98	ng/L	1.954		107	43-158		
Perfluoroundecanoic acid (PFUnA)	2.31	0.98	ng/L	1.954		118	50-155		
Perfluorododecanoic acid (PFDoA)	2.12	0.98	ng/L	1.954		109	60-141		
Perfluorotridecanoic acid (PFTrDA)	2.22	0.98	ng/L	1.954		114	52-140		
Perfluorotetradecanoic acid (PFTeDA)	1.99	0.98	ng/L	1.954		102	52-156		
Perfluorobutanesulfonic acid (PFBS)	1.83	0.98	ng/L	1.734		105	63-145		
Perfluoropentanesulfonic acid (PFPeS)	2.11	0.98	ng/L	1.836		115	58-144		
Perfluorohexanesulfonic acid (PFHxS)	2.17	0.98	ng/L	1.788		121	44-158		
Perfluoroheptanesulfonic acid (PFHpS)	2.15	0.98	ng/L	1.861		115	51-150		
Perfluorooctanesulfonic acid (PFOS)	2.11	0.98	ng/L	1.812		117	43-162		
Perfluorononanesulfonic acid (PFNS)	1.96	0.98	ng/L	1.880		104	46-151		
Perfluorodecanesulfonic acid (PFDS)	1.94	0.98	ng/L	1.885		103	50-144		
Perfluorododecanesulfonic acid (PFDoS)	1.96	0.98	ng/L	1.895		103	30-138		
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.37	3.9	ng/L	7.326		114	52-158		
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.78	3.9	ng/L	7.424		105	48-158		
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.17	3.9	ng/L	7.522		109	46-165		
Perfluorooctanesulfonamide (PFOSA)	2.02	0.98	ng/L	1.954		104	47-163		
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.41	0.98	ng/L	1.954		123	54-155		
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.43	0.98	ng/L	1.954		125	49-156		
N-MeFOSAA (NMeFOSAA)	2.37	0.98	ng/L	1.954		121	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 B387736 - Draft Method 1633
MRL Check (B387736-MRL1)

Prepared: 10/09/24 Analyzed: 10/10/24

N-EtFOSAA (NEtFOSAA)	2.08	0.98	ng/L	1.954		106	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	20.9	9.8	ng/L	19.54		107	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.9	9.8	ng/L	19.54		107	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.79	3.9	ng/L	7.815		113	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.20	3.9	ng/L	7.375		111	61-148			
9Cl-PF3ONS (F53B Minor)	7.36	3.9	ng/L	7.326		100	44-167			
11Cl-PF3OUdS (F53B Major)	7.02	3.9	ng/L	7.375		95.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.8	9.8	ng/L	19.54		90.9	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	105	49	ng/L	97.68		108	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	96.5	49	ng/L	97.68		98.8	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.02	2.0	ng/L	3.478		116	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.79	2.0	ng/L	3.907		97.0	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.05	2.0	ng/L	3.907		104	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.31	2.0	ng/L	3.907		110	47-160			
Surrogate: 13C4-PFBA	89.4		ng/L	97.68		91.5	10-130			
Surrogate: 13C5-PFPeA	51.0		ng/L	48.84		105	35-150			
Surrogate: 13C5-PFHxA	21.8		ng/L	24.42		89.2	55-150			
Surrogate: 13C4-PFHpA	20.1		ng/L	24.42		82.2	55-150			
Surrogate: 13C8-PFOA	22.0		ng/L	24.42		90.0	60-140			
Surrogate: 13C9-PFNA	10.6		ng/L	12.21		86.5	55-140			
Surrogate: 13C6-PFDA	10.8		ng/L	12.21		88.5	50-140			
Surrogate: 13C7-PFUnA	10.3		ng/L	12.21		84.2	30-140			
Surrogate: 13C2-PFDoA	9.37		ng/L	12.21		76.8	10-150			
Surrogate: 13C2-PFTeDA	9.20		ng/L	12.21		75.3	10-130			
Surrogate: 13C3-PFBS	22.5		ng/L	24.42		92.1	55-150			
Surrogate: 13C3-PFHxS	21.6		ng/L	24.42		88.3	55-150			
Surrogate: 13C8-PFOS	20.4		ng/L	24.42		83.6	45-140			
Surrogate: 13C2-4:2FTS	40.0		ng/L	48.84		81.9	60-200			
Surrogate: 13C2-6:2FTS	41.6		ng/L	48.84		85.2	60-200			
Surrogate: 13C2-8:2FTS	39.7		ng/L	48.84		81.2	50-200			
Surrogate: 13C8-PFOA	19.7		ng/L	24.42		80.7	30-130			
Surrogate: D3-NMeFOSA	17.6		ng/L	24.42		72.1	15-130			
Surrogate: D5-NEtFOSA	17.1		ng/L	24.42		70.0	10-130			
Surrogate: D3-NMeFOSAA	39.1		ng/L	48.84		80.0	45-200			
Surrogate: D5-NEtFOSAA	39.9		ng/L	48.84		81.7	10-200			
Surrogate: D7-NMeFOSE	207		ng/L	244.2		84.8	10-150			
Surrogate: D9-NEtFOSE	204		ng/L	244.2		83.6	10-150			
Surrogate: 13C3-HFPO-DA	82.4		ng/L	97.68		84.3	25-160			

Batch B388184 - Draft Method 1633
Blank (B388184-BLK1)

Prepared: 10/08/24 Analyzed: 10/10/24

Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							

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 B388184 - Draft Method 1633										
Blank (B388184-BLK1)										
Prepared: 10/08/24 Analyzed: 10/10/24										
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 (PFTTrDA)	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	79.8		ng/L	73.79		108	10-130			
Surrogate: 13C5-PFPeA	35.1		ng/L	36.89		95.1	35-150			
Surrogate: 13C5-PFHxA	19.2		ng/L	18.45		104	55-150			
Surrogate: 13C4-PFHpA	18.8		ng/L	18.45		102	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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B388184 - Draft Method 1633
Blank (B388184-BLK1)

Prepared: 10/08/24 Analyzed: 10/10/24

Surrogate: 13C8-PFOA	20.1		ng/L	18.45		109	60-140			
Surrogate: 13C9-PFNA	9.85		ng/L	9.224		107	55-140			
Surrogate: 13C6-PFDA	9.50		ng/L	9.224		103	50-140			
Surrogate: 13C7-PFUnA	10.2		ng/L	9.224		111	30-140			
Surrogate: 13C2-PFDoA	9.61		ng/L	9.224		104	10-150			
Surrogate: 13C2-PFTeDA	9.06		ng/L	9.224		98.2	10-130			
Surrogate: 13C3-PFBS	18.2		ng/L	18.45		98.8	55-150			
Surrogate: 13C3-PFHxS	20.1		ng/L	18.45		109	55-150			
Surrogate: 13C8-PFOS	19.2		ng/L	18.45		104	45-140			
Surrogate: 13C2-4:2FTS	31.8		ng/L	36.89		86.2	60-200			
Surrogate: 13C2-6:2FTS	37.9		ng/L	36.89		103	60-200			
Surrogate: 13C2-8:2FTS	42.8		ng/L	36.89		116	50-200			
Surrogate: 13C8-PFOSA	21.3		ng/L	18.45		115	30-130			
Surrogate: D3-NMeFOSA	15.9		ng/L	18.45		86.1	15-130			
Surrogate: D5-NEtFOSA	15.3		ng/L	18.45		83.0	10-130			
Surrogate: D3-NMeFOSAA	36.4		ng/L	36.89		98.7	45-200			
Surrogate: D5-NEtFOSAA	37.0		ng/L	36.89		100	10-200			
Surrogate: D7-NMeFOSE	219		ng/L	184.5		119	10-150			
Surrogate: D9-NEtFOSE	206		ng/L	184.5		112	10-150			
Surrogate: 13C3-HFPO-DA	68.2		ng/L	73.79		92.4	25-160			

LCS (B388184-BS1)

Prepared: 10/08/24 Analyzed: 10/10/24

Perfluorobutanoic acid (PFBA)	96.5	3.9	ng/L	94.51		102	58-148			
Perfluoropentanoic acid (PFPeA)	49.9	2.0	ng/L	47.25		106	54-152			
Perfluorohexanoic acid (PFHxA)	25.0	0.98	ng/L	23.63		106	55-152			
Perfluoroheptanoic acid (PFHpA)	23.7	0.98	ng/L	23.63		100	54-154			
Perfluorooctanoic acid (PFOA)	23.4	0.98	ng/L	23.63		98.9	52-161			
Perfluorononanoic acid (PFNA)	24.6	0.98	ng/L	23.63		104	59-149			
Perfluorodecanoic acid (PFDA)	24.6	0.98	ng/L	23.63		104	52-147			
Perfluoroundecanoic acid (PFUnA)	24.2	0.98	ng/L	23.63		102	48-159			
Perfluorododecanoic acid (PFDoA)	24.6	0.98	ng/L	23.63		104	64-142			
Perfluorotridecanoic acid (PFTrDA)	25.8	0.98	ng/L	23.63		109	49-148			
Perfluorotetradecanoic acid (PFTeDA)	24.6	0.98	ng/L	23.63		104	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.3	0.98	ng/L	20.97		97.0	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.2	0.98	ng/L	22.21		99.7	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.9	0.98	ng/L	21.62		92.0	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.8	0.98	ng/L	22.50		101	55-152			
Perfluorooctanesulfonic acid (PFOS)	20.5	0.98	ng/L	21.91		93.6	58-149			
Perfluorononanesulfonic acid (PFNS)	21.7	0.98	ng/L	22.74		95.3	52-148			
Perfluorodecanesulfonic acid (PFDS)	21.5	0.98	ng/L	22.80		94.2	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.1	0.98	ng/L	22.92		87.9	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.2	3.9	ng/L	88.60		107	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.3	3.9	ng/L	89.78		111	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	102	3.9	ng/L	90.96		112	63-152			
Perfluorooctanesulfonamide (PFOSA)	23.1	0.98	ng/L	23.63		97.9	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	25.7	0.98	ng/L	23.63		109	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	26.5	0.98	ng/L	23.63		112	65-139			
N-MeFOSAA (NMeFOSAA)	26.0	0.98	ng/L	23.63		110	58-144			
N-EtFOSAA (NEtFOSAA)	20.7	0.98	ng/L	23.63		87.6	59-146			

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 B388184 - Draft Method 1633
LCS (B388184-BS1)

Prepared: 10/08/24 Analyzed: 10/10/24

N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	248	9.8	ng/L	236.3		105	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	245	9.8	ng/L	236.3		104	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	3.9	ng/L	94.51		109	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	106	3.9	ng/L	89.19		119	68-146			
9Cl-PF3ONS (F53B Minor)	101	3.9	ng/L	88.60		114	56-156			
11Cl-PF3OUdS (F53B Major)	94.0	3.9	ng/L	89.19		105	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	214	9.8	ng/L	236.3		90.4	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1280	49	ng/L	1181		109	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1200	49	ng/L	1181		101	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	48.8	2.0	ng/L	42.06		116	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	42.5	2.0	ng/L	47.25		90.0	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.3	2.0	ng/L	47.25		102	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	44.0	2.0	ng/L	47.25		93.0	48-161			
Surrogate: 13C4-PFBA	70.8		ng/L	73.83		95.9	10-130			
Surrogate: 13C5-PFPeA	40.5		ng/L	36.92		110	35-150			
Surrogate: 13C5-PFHxA	16.8		ng/L	18.46		91.2	55-150			
Surrogate: 13C4-PFHpA	16.2		ng/L	18.46		87.6	55-150			
Surrogate: 13C8-PFOA	17.7		ng/L	18.46		95.8	60-140			
Surrogate: 13C9-PFNA	8.53		ng/L	9.229		92.5	55-140			
Surrogate: 13C6-PFDA	8.55		ng/L	9.229		92.6	50-140			
Surrogate: 13C7-PFUnA	8.75		ng/L	9.229		94.8	30-140			
Surrogate: 13C2-PFDoA	7.90		ng/L	9.229		85.6	10-150			
Surrogate: 13C2-PFTeDA	7.62		ng/L	9.229		82.6	10-130			
Surrogate: 13C3-PFBS	16.7		ng/L	18.46		90.3	55-150			
Surrogate: 13C3-PFHxS	17.3		ng/L	18.46		93.5	55-150			
Surrogate: 13C8-PFOS	18.2		ng/L	18.46		98.7	45-140			
Surrogate: 13C2-4:2FTS	32.6		ng/L	36.92		88.2	60-200			
Surrogate: 13C2-6:2FTS	32.0		ng/L	36.92		86.8	60-200			
Surrogate: 13C2-8:2FTS	32.9		ng/L	36.92		89.2	50-200			
Surrogate: 13C8-PFOSA	16.2		ng/L	18.46		87.7	30-130			
Surrogate: D3-NMeFOSA	13.8		ng/L	18.46		74.6	15-130			
Surrogate: D5-NEtFOSA	13.9		ng/L	18.46		75.2	10-130			
Surrogate: D3-NMeFOSAA	34.2		ng/L	36.92		92.6	45-200			
Surrogate: D5-NEtFOSAA	34.6		ng/L	36.92		93.7	10-200			
Surrogate: D7-NMeFOSE	162		ng/L	184.6		87.8	10-150			
Surrogate: D9-NEtFOSE	166		ng/L	184.6		89.8	10-150			
Surrogate: 13C3-HFPO-DA	63.0		ng/L	73.83		85.3	25-160			

MRL Check (B388184-MRL1)

Prepared: 10/08/24 Analyzed: 10/10/24

Perfluorobutanoic acid (PFBA)	8.60	4.0	ng/L	7.904		109	44-157			
Perfluoropentanoic acid (PFPeA)	4.42	2.0	ng/L	3.952		112	57-148			
Perfluorohexanoic acid (PFHxA)	2.21	0.99	ng/L	1.976		112	62-149			
Perfluoroheptanoic acid (PFHpA)	2.08	0.99	ng/L	1.976		105	56-150			
Perfluorooctanoic acid (PFOA)	2.31	0.99	ng/L	1.976		117	57-161			
Perfluorononanoic acid (PFNA)	2.13	0.99	ng/L	1.976		108	53-157			

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 B388184 - Draft Method 1633
MRL Check (B388184-MRL1)

Prepared: 10/08/24 Analyzed: 10/10/24

Perfluorodecanoic acid (PFDA)	2.22	0.99	ng/L	1.976		112	43-158			
Perfluoroundecanoic acid (PFUnA)	2.18	0.99	ng/L	1.976		110	50-155			
Perfluorododecanoic acid (PFDoA)	2.09	0.99	ng/L	1.976		106	60-141			
Perfluorotridecanoic acid (PFTrDA)	2.33	0.99	ng/L	1.976		118	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.20	0.99	ng/L	1.976		111	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.94	0.99	ng/L	1.754		111	63-145			
Perfluoropentanesulfonic acid (PFPeS)	2.32	0.99	ng/L	1.858		125	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.73	0.99	ng/L	1.808		95.7	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.16	0.99	ng/L	1.882		115	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.16	0.99	ng/L	1.833		118	43-162			
Perfluorononanesulfonic acid (PFNS)	2.07	0.99	ng/L	1.902		109	46-151			
Perfluorodecanesulfonic acid (PFDS)	2.12	0.99	ng/L	1.907		111	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.98	0.99	ng/L	1.917		103	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.30	4.0	ng/L	7.410		112	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.99	4.0	ng/L	7.509		120	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.54	4.0	ng/L	7.608		112	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.09	0.99	ng/L	1.976		106	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.20	0.99	ng/L	1.976		111	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.52	0.99	ng/L	1.976		128	49-156			
N-MeFOSAA (NMeFOSAA)	2.23	0.99	ng/L	1.976		113	32-160			
N-EtFOSAA (NEtFOSAA)	1.66	0.99	ng/L	1.976		84.1	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	21.5	9.9	ng/L	19.76		109	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.2	9.9	ng/L	19.76		107	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.57	4.0	ng/L	7.904		108	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.71	4.0	ng/L	7.460		117	61-148			
9CI-PF3ONS (F53B Minor)	8.44	4.0	ng/L	7.410		114	44-167			
11CI-PF3OUdS (F53B Major)	7.72	4.0	ng/L	7.460		103	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	20.0	9.9	ng/L	19.76		101	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	124	49	ng/L	98.80		125	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	114	49	ng/L	98.80		116	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.15	2.0	ng/L	3.517		118	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	2.0	ng/L	3.952		101	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.24	2.0	ng/L	3.952		107	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.77	2.0	ng/L	3.952		95.3	47-160			
Surrogate: 13C4-PFBA	69.5		ng/L	74.10		93.8	10-130			
Surrogate: 13C5-PFPeA	39.2		ng/L	37.05		106	35-150			
Surrogate: 13C5-PFHxA	16.9		ng/L	18.53		91.3	55-150			
Surrogate: 13C4-PFHpA	15.9		ng/L	18.53		86.0	55-150			
Surrogate: 13C8-PFOA	16.5		ng/L	18.53		88.9	60-140			
Surrogate: 13C9-PFNA	8.73		ng/L	9.263		94.2	55-140			
Surrogate: 13C6-PFDA	8.15		ng/L	9.263		88.0	50-140			

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 B388184 - Draft Method 1633
MRL Check (B388184-MRL1)

Prepared: 10/08/24 Analyzed: 10/10/24

Surrogate: 13C7-PFUnA	8.19		ng/L	9.263		88.4	30-140			
Surrogate: 13C2-PFDoA	7.64		ng/L	9.263		82.5	10-150			
Surrogate: 13C2-PFTeDA	7.33		ng/L	9.263		79.2	10-130			
Surrogate: 13C3-PFBS	16.9		ng/L	18.53		91.2	55-150			
Surrogate: 13C3-PFHxS	16.9		ng/L	18.53		91.4	55-150			
Surrogate: 13C8-PFOS	16.3		ng/L	18.53		87.7	45-140			
Surrogate: 13C2-4:2FTS	29.3		ng/L	37.05		79.1	60-200			
Surrogate: 13C2-6:2FTS	30.4		ng/L	37.05		81.9	60-200			
Surrogate: 13C2-8:2FTS	27.6		ng/L	37.05		74.6	50-200			
Surrogate: 13C8-PFOA	16.0		ng/L	18.53		86.6	30-130			
Surrogate: D3-NMeFOSA	12.8		ng/L	18.53		69.0	15-130			
Surrogate: D5-NEtFOSA	12.5		ng/L	18.53		67.3	10-130			
Surrogate: D3-NMeFOSAA	30.5		ng/L	37.05		82.2	45-200			
Surrogate: D5-NEtFOSAA	31.4		ng/L	37.05		84.7	10-200			
Surrogate: D7-NMeFOSE	159		ng/L	185.3		85.8	10-150			
Surrogate: D9-NEtFOSE	160		ng/L	185.3		86.4	10-150			
Surrogate: 13C3-HFPO-DA	61.0		ng/L	74.10		82.3	25-160			

Matrix Spike (B388184-MS2)
Source: 2411930-02

Prepared: 10/08/24 Analyzed: 10/11/24

Perfluorobutanoic acid (PFBA)	104	3.7	ng/L	89.58	8.80	106	58-148			
Perfluoropentanoic acid (PFPeA)	58.0	1.9	ng/L	44.79	8.30	111	54-152			
Perfluorohexanoic acid (PFHxA)	33.1	0.93	ng/L	22.40	9.13	107	55-152			
Perfluoroheptanoic acid (PFHpA)	30.4	0.93	ng/L	22.40	7.61	102	54-154			
Perfluorooctanoic acid (PFOA)	290	0.93	ng/L	22.40	264	115	52-161			
Perfluorononanoic acid (PFNA)	24.6	0.93	ng/L	22.40	1.33	104	59-149			
Perfluorodecanoic acid (PFDA)	28.2	0.93	ng/L	22.40	3.28	112	52-147			
Perfluoroundecanoic acid (PFUnA)	24.2	0.93	ng/L	22.40	ND	108	48-159			
Perfluorododecanoic acid (PFDoA)	23.0	0.93	ng/L	22.40	ND	103	64-142			
Perfluorotridecanoic acid (PFTTrDA)	23.6	0.93	ng/L	22.40	ND	105	49-148			
Perfluorotetradecanoic acid (PFTeDA)	24.1	0.93	ng/L	22.40	ND	108	47-161			
Perfluorobutanesulfonic acid (PFBS)	21.5	0.93	ng/L	19.88	2.11	97.6	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.0	0.93	ng/L	21.05	ND	105	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.9	0.93	ng/L	20.49	0.378	95.2	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.0	0.93	ng/L	21.33	ND	108	55-152			
Perfluorooctanesulfonic acid (PFOS)	22.4	0.93	ng/L	20.77	1.30	102	58-149			
Perfluorononanesulfonic acid (PFNS)	21.4	0.93	ng/L	21.56	ND	99.1	52-148			
Perfluorodecanesulfonic acid (PFDS)	20.8	0.93	ng/L	21.61	ND	96.2	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.7	0.93	ng/L	21.72	ND	95.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.0	3.7	ng/L	83.98	ND	110	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.2	3.7	ng/L	85.10	ND	108	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.6	3.7	ng/L	86.22	ND	105	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.4	0.93	ng/L	22.40	ND	99.9	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	25.1	0.93	ng/L	22.40	ND	112	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.5	0.93	ng/L	22.40	ND	114	65-139			
N-MeFOSAA (NMeFOSAA)	23.3	0.93	ng/L	22.40	ND	104	58-144			
N-EtFOSAA (NEtFOSAA)	21.4	0.93	ng/L	22.40	ND	95.4	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	236	9.3	ng/L	224.0	ND	105	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	231	9.3	ng/L	224.0	ND	103	69-137			

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 B388184 - Draft Method 1633

Matrix Spike (B388184-MS2)	Source: 2411930-02			Prepared: 10/08/24 Analyzed: 10/11/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.8	3.7	ng/L	89.58	ND	106	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.9	3.7	ng/L	84.54	ND	110	68-146			
9Cl-PF3ONS (F53B Minor)	85.8	3.7	ng/L	83.98	ND	102	56-156			
11Cl-PF3OUdS (F53B Major)	76.2	3.7	ng/L	84.54	ND	90.2	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	191	9.3	ng/L	224.0	ND	85.2	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1110	47	ng/L	1120	ND	99.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1050	47	ng/L	1120	ND	93.8	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	48.8	1.9	ng/L	39.86	ND	122	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.2	1.9	ng/L	44.79	ND	89.8	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	44.9	1.9	ng/L	44.79	ND	100	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	44.0	1.9	ng/L	44.79	ND	98.2	48-161			
Surrogate: 13C4-PFBA	70.5		ng/L	69.99		101	10-130			
Surrogate: 13C5-PFPeA	41.5		ng/L	34.99		119	35-150			
Surrogate: 13C5-PFHxA	17.0		ng/L	17.50		97.1	55-150			
Surrogate: 13C4-PFHpA	16.8		ng/L	17.50		96.3	55-150			
Surrogate: 13C8-PFOA	16.8		ng/L	17.50		96.0	60-140			
Surrogate: 13C9-PFNA	8.52		ng/L	8.748		97.4	55-140			
Surrogate: 13C6-PFDA	7.87		ng/L	8.748		90.0	50-140			
Surrogate: 13C7-PFUnA	8.08		ng/L	8.748		92.4	30-140			
Surrogate: 13C2-PFDoA	7.44		ng/L	8.748		85.1	10-150			
Surrogate: 13C2-PFTeDA	7.07		ng/L	8.748		80.8	10-130			
Surrogate: 13C3-PFBS	17.5		ng/L	17.50		99.9	55-150			
Surrogate: 13C3-PFHxS	17.5		ng/L	17.50		100	55-150			
Surrogate: 13C8-PFOS	16.8		ng/L	17.50		96.1	45-140			
Surrogate: 13C2-4:2FTS	39.3		ng/L	34.99		112	60-200			
Surrogate: 13C2-6:2FTS	36.7		ng/L	34.99		105	60-200			
Surrogate: 13C2-8:2FTS	29.9		ng/L	34.99		85.5	50-200			
Surrogate: 13C8-PFOSA	15.4		ng/L	17.50		87.8	30-130			
Surrogate: D3-NMeFOSA	12.7		ng/L	17.50		72.3	15-130			
Surrogate: D5-NEtFOSA	12.6		ng/L	17.50		72.3	10-130			
Surrogate: D3-NMeFOSAA	30.3		ng/L	34.99		86.7	45-200			
Surrogate: D5-NEtFOSAA	30.2		ng/L	34.99		86.3	10-200			
Surrogate: D7-NMeFOSE	139		ng/L	175.0		79.6	10-150			
Surrogate: D9-NEtFOSE	137		ng/L	175.0		78.5	10-150			
Surrogate: 13C3-HFPO-DA	67.3		ng/L	69.99		96.1	25-160			

Matrix Spike Dup (B388184-MSD2)	Source: 2411930-02			Prepared: 10/08/24 Analyzed: 10/11/24						
Perfluorobutanoic acid (PFBA)	103	3.8	ng/L	90.33	8.80	104	58-148	0.634	20	
Perfluoropentanoic acid (PFPeA)	57.9	1.9	ng/L	45.17	8.30	110	54-152	0.220	20	
Perfluorohexanoic acid (PFHxA)	32.3	0.94	ng/L	22.58	9.13	102	55-152	2.56	25	
Perfluoroheptanoic acid (PFHpA)	30.7	0.94	ng/L	22.58	7.61	102	54-154	1.17	25	
Perfluorooctanoic acid (PFOA)	287	0.94	ng/L	22.58	264	97.8	52-161	1.24	25	
Perfluorononanoic acid (PFNA)	24.6	0.94	ng/L	22.58	1.33	103	59-149	0.184	25	
Perfluorodecanoic acid (PFDA)	26.8	0.94	ng/L	22.58	3.28	104	52-147	5.36	25	
Perfluoroundecanoic acid (PFUnA)	23.1	0.94	ng/L	22.58	ND	102	48-159	4.49	30	
Perfluorododecanoic acid (PFDoA)	22.8	0.94	ng/L	22.58	ND	101	64-142	0.549	25	
Perfluorotridecanoic acid (PFTrDA)	24.4	0.94	ng/L	22.58	ND	108	49-148	3.21	25	

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 B388184 - Draft Method 1633										
Matrix Spike Dup (B388184-MSD2)	Source: 2411930-02			Prepared: 10/08/24 Analyzed: 10/11/24						
Perfluorotetradecanoic acid (PFTeDA)	23.5	0.94	ng/L	22.58	ND	104	47-161	2.77	25	
Perfluorobutanesulfonic acid (PFBS)	22.3	0.94	ng/L	20.04	2.11	101	62-144	3.75	20	
Perfluoropentanesulfonic acid (PFPeS)	21.6	0.94	ng/L	21.23	ND	102	59-151	1.97	25	
Perfluorohexanesulfonic acid (PFHxS)	19.7	0.94	ng/L	20.66	0.378	93.6	57-146	0.778	25	
Perfluoroheptanesulfonic acid (PFHpS)	24.3	0.94	ng/L	21.51	ND	113	55-152	5.27	25	
Perfluorooctanesulfonic acid (PFOS)	23.5	0.94	ng/L	20.95	1.30	106	58-149	4.93	20	
Perfluorononanesulfonic acid (PFNS)	20.6	0.94	ng/L	21.74	ND	95.0	52-148	3.36	25	
Perfluorodecanesulfonic acid (PFDS)	20.7	0.94	ng/L	21.79	ND	95.0	51-147	0.430	25	
Perfluorododecanesulfonic acid (PFDoS)	21.4	0.94	ng/L	21.91	ND	97.7	36-145	3.41	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.2	3.8	ng/L	84.69	ND	112	67-146	3.39	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.8	3.8	ng/L	85.82	ND	114	61-151	5.92	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	89.7	3.8	ng/L	86.95	ND	103	63-152	0.928	30	
Perfluorooctanesulfonamide (PFOSA)	22.6	0.94	ng/L	22.58	ND	99.9	61-148	0.779	20	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.8	0.94	ng/L	22.58	ND	110	63-145	1.03	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.5	0.94	ng/L	22.58	ND	113	65-139	0.00711	25	
N-MeFOSAA (NMeFOSAA)	23.7	0.94	ng/L	22.58	ND	105	58-144	1.86	25	
N-EtFOSAA (NEtFOSAA)	20.9	0.94	ng/L	22.58	ND	92.6	59-146	2.13	25	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	240	9.4	ng/L	225.8	ND	106	71-136	1.76	20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	232	9.4	ng/L	225.8	ND	103	69-137	0.140	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.5	3.8	ng/L	90.33	ND	103	63-144	1.43	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	98.4	3.8	ng/L	85.25	ND	115	68-146	5.79	20	
9Cl-PF3ONS (F53B Minor)	86.8	3.8	ng/L	84.69	ND	102	56-156	1.14	30	
11Cl-PF3OUdS (F53B Major)	80.0	3.8	ng/L	85.25	ND	93.9	46-156	4.88	35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	188	9.4	ng/L	225.8	ND	83.3	62-129	1.42	20	
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1100	47	ng/L	1129	ND	97.8	63-134	0.367	20	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1040	47	ng/L	1129	ND	92.5	50-138	0.597	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	46.2	1.9	ng/L	40.20	ND	115	56-151	5.34	20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.4	1.9	ng/L	45.17	ND	87.2	51-145	2.16	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	43.2	1.9	ng/L	45.17	ND	95.7	55-148	3.85	20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	43.6	1.9	ng/L	45.17	ND	96.5	48-161	0.939	35	
Surrogate: 13C4-PFBA	75.5		ng/L	70.57		107	10-130			
Surrogate: 13C5-PFPeA	44.2		ng/L	35.29		125	35-150			
Surrogate: 13C5-PFHxA	18.8		ng/L	17.64		107	55-150			
Surrogate: 13C4-PFHpA	17.7		ng/L	17.64		100	55-150			
Surrogate: 13C8-PFOA	18.2		ng/L	17.64		103	60-140			
Surrogate: 13C9-PFNA	9.11		ng/L	8.822		103	55-140			
Surrogate: 13C6-PFDA	9.19		ng/L	8.822		104	50-140			
Surrogate: 13C7-PFUnA	9.11		ng/L	8.822		103	30-140			
Surrogate: 13C2-PFDoA	8.16		ng/L	8.822		92.5	10-150			
Surrogate: 13C2-PFTeDA	7.80		ng/L	8.822		88.4	10-130			
Surrogate: 13C3-PFBS	18.3		ng/L	17.64		104	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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B388184 - Draft Method 1633
Matrix Spike Dup (B388184-MSD2)
Source: 2411930-02

Prepared: 10/08/24 Analyzed: 10/11/24

Surrogate: 13C3-PFHxS	18.6		ng/L	17.64		106	55-150			
Surrogate: 13C8-PFOS	17.3		ng/L	17.64		98.1	45-140			
Surrogate: 13C2-4:2FTS	42.7		ng/L	35.29		121	60-200			
Surrogate: 13C2-6:2FTS	37.9		ng/L	35.29		107	60-200			
Surrogate: 13C2-8:2FTS	32.8		ng/L	35.29		92.9	50-200			
Surrogate: 13C8-PFOSA	16.1		ng/L	17.64		91.3	30-130			
Surrogate: D3-NMeFOSA	13.9		ng/L	17.64		78.8	15-130			
Surrogate: D5-NEtFOSA	14.2		ng/L	17.64		80.3	10-130			
Surrogate: D3-NMeFOSAA	33.1		ng/L	35.29		93.7	45-200			
Surrogate: D5-NEtFOSAA	32.1		ng/L	35.29		91.0	10-200			
Surrogate: D7-NMeFOSE	147		ng/L	176.4		83.2	10-150			
Surrogate: D9-NEtFOSE	146		ng/L	176.4		82.9	10-150			
Surrogate: 13C3-HFPO-DA	68.5		ng/L	70.57		97.0	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
Batch B386255 - Draft Method 1633										
Blank (B386255-BLK1)				Prepared & Analyzed: 09/17/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B386255-BS1)				Prepared & Analyzed: 09/17/24						
Total Suspended Solids	169	5.0	mg/L	200.0		84.5	51.5-130			
Batch B386256 - Draft Method 1633										
Blank (B386256-BLK1)				Prepared & Analyzed: 09/17/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B386256-BS1)				Prepared & Analyzed: 09/17/24						
Total Suspended Solids	119	5.0	mg/L	200.0		59.5	51.5-130			
Batch B386341 - Draft Method 1633										
Blank (B386341-BLK1)				Prepared & Analyzed: 09/18/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B386341-BS1)				Prepared & Analyzed: 09/18/24						
Total Suspended Solids	188	5.0	mg/L	200.0		94.0	51.5-130			
Batch B386561 - Draft Method 1633										
Blank (B386561-BLK1)				Prepared & Analyzed: 09/19/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B386561-BS1)				Prepared & Analyzed: 09/19/24						
Total Suspended Solids	191	5.0	mg/L	200.0		95.5	51.5-130			

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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
S-26	Surrogate outside of control limits.
S-29	Extracted Internal Standard is outside of control limits.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
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	Sample was re-extracted past the recommended holding time for confirmation due to "J" flag hit in blank.

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,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
tert-Amyl Alcohol (TAA)	NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY

SW-846 8270E in Water

1,4-Dioxane NY,NH

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

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

Phone: 413-525-2532
319 Spruce St
East Longmeadow, MA 01028

Face Analytical

2414930

Doc # 380 Rev 1_03242017

Page 2 of 3

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Consultant: AECOM

Consultant Address: 40 Balch Avenue, Dix Hills, NY 11010

Consultant Phone: 516-251-2200

Project Location: Shakerbury, NY

Callout Number: NW Corp

Site/Spill Number: Shakerbury, NY

Project Manager: Lindsay Mitchell

Pace Analytical Quote Name/Number:

Invoice Recipient:

Sampled By: Steve Gray, Ray Neller, Chris French

Form: PDF ☒ EXCEL ☐

Other: ☒ CLIP Like (Level 4) Data Pkg Required: ☐

Email To: Payson Leige DEC

Fax To #: .NY.GOV

DEC Standard 30-calendar day	☐
Due Date: <u>Standard</u>	
1-Day ☐ 2-Day ☐ 3-Day ☐	
4-Day ☐ 5-Day ☐ 10-Day ☐	
Format: PDF ☒ EXCEL ☐	
Other: ☒	
CLIP Like (Level 4) Data Pkg Required: ☐	
Email To: <u>Payson Leige DEC</u>	
Fax To #: <u>.NY.GOV</u>	

Client Sample ID / Description	Analysis Date	Analysis Time	Matrix	Code	Conc
1 Field Blank	9/12/24	1635	G	GW	L
12 MW-8-09122024	9/12/24	1815			
13 OW-6-09122024	9/12/24	1005			
14 MW-6D-09122024	9/12/24	1132			
15 MW-6S-09122024	9/12/24	1410			
16 MW-3D-09122024	9/12/24	1700			
17 MW-11-09122024	9/12/24	1435			
18 Trip Blank					
19 MW-2-09122024	9/12/24	1705	G	GW	L

Comments: * Cat B deliverables + NYSDDEC EDD

Forward

COPY Livestock, Mitchell@aecom.com

Relinquished by: (signature) AECOM 9/12/24 1815

Received by: (signature) 9/13-0357

Relinquished by: (signature) 9/13-0357

Received by: (signature) 9/13-1025

Relinquished by: (signature) 9/13-1025

Received by: (signature) 9/13-1025

Relinquished by: (signature) 9/13-1025

Received by: (signature) 9/13-1025

Relinquished by: (signature) 9/13-1025

Received by: (signature) 9/13-1025

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



Enhanced Data Package
NYSDDEC EDD
EQUS (Standard) EDD
NY Regulatory EDD
NY Regs Mts-Only EDD

NY TOGS
NY CP-51

AWQ STDS
NYC Sewer Discharge
Part 360 GW (Landfill)
NY Restricted Use
NY Unrestricted Use
NY Part 375

Other
NELAC and AHA-LAP, LLC Accredited

Project Entity
Government ☐ Federal ☐ City ☐
Municipality ☐ 24 J ☐ Brownfield ☐
MWRA ☐ School ☐ MBTA ☐
WRTA ☐ Chromatogram ☐ AHA-LAP, LLC ☐

PCB ONLY
Soxhlet ☐ Non Soxhlet ☐

Pace

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

Sample	Soils Jars (Circle Amb/Clear)				Ambers				Plastics								VOA Vials				Other / Fill in	
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter	250ml	100ml	1 Liter	500ml	250ml				Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	125 mL plus 2		
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						

VALIDATA

Chemical Services, Inc.

2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130

(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM Technical Services Northeast, Inc.
PROJECT NAME: NOW Corporation #314008
CONTRACTED LAB: PACE, New England
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): EPA Draft Method 1633 Modified, SW-846 8270E
VALIDATION GUIDELINES: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 2020; NYSDEC Guidelines for Sampling and Analysis of PFAS, May 2023 Professional Judgment
SAMPLE MATRIX: Ground Water, Water
TYPES OF ANALYSES: Polyfluoroalkyl Substances (PFAS)
DATA REVIEWER(S): Cathi Leshner & Kevin Harmon
SDG NUMBER: 24I1930
SAMPLING DATE(S): September 10, 11, and 12, 2024

SAMPLES:

CLIENT ID	LAB ID	PFAS	1,4-Dioxane
24I19230-01	MW-5-09102024	X	X
24I19230-02	MW-7S-09102024	X	X
24I19230-02RE	MW-7S-09102024RE		X
24I19230-02MS	MW-7S-09102024MS	X	X
24I19230-02MSD	MW-7S-09102024MSD	X	X
24I19230-03	MW-1-09102024	X	X
24I19230-04	MW-7D-09102024	X	X
24I19230-05	DUP-09102024	X	X
24I19230-06	MW-4D-09112024	X	X
24I19230-07	MW-12D-09112024	X	X
24I19230-08	MW-4S-09112024	X	X
24I19230-09	MW-12S-09112024	X	X
24I19230-09RE	MW-12S-09112024RE		X
24I19230-10	MW-3S-09112024	X	X
24I19230-11	Field Blank	X	
24I19230-12	MW-8-09112024	X	X
24I19230-13	MW-6-09122024	X	X
24I19230-14	MW-6D-09122024	X	X

CLIENT ID	LAB ID	PFAS	1,4-Dioxane
24I19230-15	MW-6S-09122024	X	X
24I19230-16	MW-3D-09122024	X	X
24I19230-17	MW-11-09122024	X	X
24I19230-19	MW-2-09102024	X	X
24I19230-20	MW-9-09112024	X	X
24I19230-21	MW-10-09112024	X	X

Suffix Codes: DL= DILUTION, MS = MATRIX SPIKE,
MSD = MATRIX SPIKE DUPLICATE, RE = REANALYSIS

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY REPORT

Con-Test – 24I1930

PERFLUOROALKYL SUBSTANCES (PFAS)

SUMMARY

I.) General:

The analyses for Perfluoroalkyl Substances were performed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) per EPA Method 1633 Draft.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the Sample delivery Group (SDG). No action was necessary.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete case narrative in the data package. The data package contains results for all samples listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures. The samples were received within the method temperature requirements. The samples were extracted and analyzed within the method hold times.

III.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria were met. No data qualification was necessary.

IV.) Continuing Calibration (CCV):

All Continuing Calibration Verification criteria were met. No qualification was necessary.

V.) Blanks:

Blank results were evaluated based on project guidelines in the following table:

Blank Result	Sample Result	Qualification
Any detection	< Reporting Limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting Limit	>Reporting limit and	J+ biased high

Instrument Blank (IB):

The Instrument Blanks reported numerous analytes. However, the results for the instrument blanks were reported less than the detection limit. No qualification was made based on this finding.

Method Blank (MB):

All method blanks were free from contamination. No data were qualified based on method blank contamination.

Field Blank (FB):

Sample, 24I930-11, was identified as the field blank in this SDG. All results were non-detects. No data qualification was necessary.

Equipment Blank:

There were no Equipment Blanks identified in this SDG. No data qualification was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed using sample MW-7S-09102024. All criteria were met. No data qualification was necessary.

VII.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No qualification was necessary.

VIII.) Field Duplicates:

One set of field duplicate samples (MW-1-09102024 / DUP 09102024) was identified as part of this SDG. All recovery criteria were met. No data qualification was necessary.

IX.) Extracted Internal Standards (EIS):

EIS recoveries (%R) were within the 50%-150% criteria, with the following exceptions:

Client ID	Lab ID	EIS Analyte	Associated Analyte	Qualification
24I1930-21	MS-10-09112024	13C2PFTeDA	PFTeDA PFTTrDA	UJ
		D3NMeFOSA	NMeFOSA	UJ
		D5NEtFOSA	NEtFOSA	UJ
		D7NMeFOSE	NMeFOSE	UJ
		D9NEtFOSE	NEtFOSE	UJ

X.) Ion Transitions:

All ion Transition criteria were within laboratory limits. No qualification was needed.

XI.) Reporting limits (RLs):

All reporting limit criteria were met.

XII.) Instrument Performance criteria:

All Instrument Performance criteria were met. No data qualification was necessary.

XIII.) Sample and QC Calculation Verification:

All Sample and QC Calculation Verification criteria were met. No discrepancies were noted.

SEMIVOLATILE ORGANICS (1,4-Dioxane)

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed by GC/MS according to SW-846 Method 8270E.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualification, as discussed in the Blank section below. Samples MS-7S-09102024, and MW-12S-09112024 were reextracted by the laboratory due to an error in the initial analyses. The reextracted samples were outside of holding time. The original analyses for these samples are reported.

MAJOR ISSUES

There were no major issues observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC / MS Tuning:

All GC / MS Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

IV.) Blanks:

Method Blanks:

Analyte 1,4-Dioxane was detected in method blank B386221 at 0.086 ug/L. The positive result for this compound in the associated sample, MW-12S-0912024 was less than 5X the blank concentration and has been qualified as undetected (U).

Tentatively Identified Compounds (TIC):

TIC data were not included for this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

The LCS samples analyzed for this fraction met all criteria. No action was required.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on SDG sample MW-7S-09102024. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (MW-1-09102024 / DUP 09102024) were identified in this fraction of the SDG. All RPD were criteria, so no action was necessary.

IX.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No action was required.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

XI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No action was required.

XII.) System Performance:

All System Performance criteria were met. No action was required.

Attachment A

Sample Result Forms (FORM Is) Corrected for Validation Qualifiers

1 - FORM I
ANALYSIS DATA SHEET

491

MW-5-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-01 File ID: F24S262034.D
Sampled: 09/10/24 13:20 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 21:24
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	4.0	0.033	0.20	B-07

1 - FORM I
ANALYSIS DATA SHEET

495

MW-7S-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-02 File ID: F24S262022.D
Sampled: 09/10/24 13:22 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 17:27
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1040 mL / 1 mL
Batch: B386221 Sequence: S110710 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.51	0.031	0.19	B, Z-01

1 - FORM I
ANALYSIS DATA SHEET

503

MW-1-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-03 File ID: F24S262035.D
Sampled: 09/10/24 15:00 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 21:43
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	4.3	0.033	0.20	B-07

1 - FORM I
ANALYSIS DATA SHEET

507

MW-7D-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-04 File ID: F24S262036.D
Sampled: 09/10/24 15:30 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 22:03
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1040 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	2.5	0.031	0.19	B-07

1 - FORM I
ANALYSIS DATA SHEET

511

DUP-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-05 File ID: F24S262037.D
Sampled: 09/10/24 00:00 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 22:23
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 990 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	4.5	0.033	0.20	B-07

1 - FORM I
ANALYSIS DATA SHEET

515

MW-4D-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-06 File ID: F24S262038.D
Sampled: 09/11/24 11:30 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 22:43
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1040 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	5.2	0.031	0.19	B-07

1 - FORM I
ANALYSIS DATA SHEET

519

MW-12D-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-07 File ID: F24S262039.D
Sampled: 09/11/24 12:40 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 23:02
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 990 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	4.0	0.033	0.20	B-07

1 - FORM I
ANALYSIS DATA SHEET

523

MW-4S-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-08 File ID: F24S262040.D
Sampled: 09/11/24 12:45 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 23:22
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1040 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	9.7	0.031	0.19	B-07

1 - FORM I
ANALYSIS DATA SHEET

527

MW-12S-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-09 File ID: F24S262041.D
Sampled: 09/11/24 13:40 Prepared: 09/16/24 15:03 Analyzed: 09/18/24 23:42
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 990 mL / 1 mL
Batch: B386221 Sequence: S110816 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.086 U	0.033	0.20	B, Z-01, J

CWL 11/22/24

1 - FORM I
ANALYSIS DATA SHEET

537

MW-3S-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-10 File ID: F24S262015.D
Sampled: 09/11/24 15:00 Prepared: 09/17/24 15:01 Analyzed: 09/18/24 15:08
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1020 mL / 1 mL
Batch: B386359 Sequence: S110710 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.074	0.032	0.20	J

1 - FORM I
ANALYSIS DATA SHEET

542

MW-8-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-12 File ID: F24S262016.D
Sampled: 09/11/24 18:15 Prepared: 09/17/24 15:01 Analyzed: 09/18/24 15:28
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386359 Sequence: S110710 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	4.2	0.033	0.20	

1 - FORM I
ANALYSIS DATA SHEET

546

OW-6-09122024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-13 File ID: F24S263007.D
Sampled: 09/12/24 10:05 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 14:59
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1000 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.033	0.20	

1 - FORM I
ANALYSIS DATA SHEET

551

MW-6D-09122024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-14 File ID: F24S263008.D
Sampled: 09/12/24 11:32 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 15:19
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1000 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	21	0.033	0.20	

1 - FORM I
ANALYSIS DATA SHEET

555

MW-6S-09122024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-15 File ID: F24S263009.D
Sampled: 09/12/24 14:10 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 15:40
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1020 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	2.2	0.032	0.20	

1 - FORM I
ANALYSIS DATA SHEET

559

MW-3D-09122024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-16 File ID: F24S263010.D
Sampled: 09/12/24 12:00 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 16:00
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 1040 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.19	0.031	0.19	J

1 - FORM I
ANALYSIS DATA SHEET

564

MW-11-09122024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-17 File ID: F24S263011.D
Sampled: 09/12/24 14:35 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 16:20
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.19	0.033	0.20	J

1 - FORM I
ANALYSIS DATA SHEET

569

MW-2-09102024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-19 File ID: F24S263012.D
Sampled: 09/12/24 17:05 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 16:40
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 950 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.034	0.21	

1 - FORM I
ANALYSIS DATA SHEET

573

MW-9-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-20 File ID: F24S263013.D
Sampled: 09/11/24 16:50 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 17:00
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.070	0.033	0.20	J

1 - FORM I
ANALYSIS DATA SHEET

578

MW-10-09112024

Laboratory: Pace New England Work Order: 24I1930
Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
Matrix: Ground Water Laboratory ID: 24I1930-21 File ID: F24S263014.D
Sampled: 09/11/24 15:15 Prepared: 09/17/24 15:01 Analyzed: 09/19/24 17:20
Solids: Preparation: SW-846 3510C Dilution: 1
Initial/Final: 980 mL / 1 mL
Batch: B386359 Sequence: S110819 Calibration: 2400298 Instrument: GCMSSV6

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.050	0.033	0.20	J

1 - FORM I

ANALYSIS DATA SHEET

MW-5-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-01
		File ID:	2411930-01.d
Sampled:	09/10/24 13:20	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 03:32
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	538.34 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.40	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.22	0.93	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.25	0.93	
335-67-1	Perfluorooctanoic acid (PFOA)		0.24	0.93	
375-95-1	Perfluorononanoic acid (PFNA)	0.19	0.18	0.93	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.93	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.93	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.93	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.28	0.93	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.93	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.20	0.93	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.93	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.26	0.93	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.93	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.36	0.93	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.93	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.93	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.93	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.69	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.93	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.30	0.93	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.31	0.93	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.93	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.93	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.3	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.5	9.3	

1 - FORM I

ANALYSIS DATA SHEET

MW-5-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-01
		File ID:	2411930-01.d
Sampled:	09/10/24 13:20	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 03:32
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	538.34 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.96	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.76	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.89	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.3	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.8	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.52	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.50	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.51	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-7S-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-02
		File ID:	2411930-02.d
Sampled:	09/10/24 13:22	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 03:47
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	534.61 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.8	2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.3	0.40	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	9.1	0.22	0.94	
375-85-9	Perfluoroheptanoic acid (PFHpA)	7.6	0.25	0.94	
335-67-1	Perfluorooctanoic acid (PFOA)	260	0.25	0.94	
375-95-1	Perfluorononanoic acid (PFNA)	1.3	0.18	0.94	
335-76-2	Perfluorodecanoic acid (PFDA)	3.3	0.19	0.94	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.94	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.94	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.28	0.94	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.94	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.1	0.20	0.94	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.94	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.38	0.26	0.94	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.94	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.3	0.36	0.94	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.94	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.94	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.94	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.70	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.94	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.31	0.94	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.32	0.94	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.94	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.94	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.6	9.4	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.5	9.4	

1 - FORM I

ANALYSIS DATA SHEET

MW-7S-09102024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-02
		File ID:	24I1930-02.d
Sampled:	09/10/24 13:22	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 03:47
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	534.61 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.97	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.77	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.90	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.4	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	47	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.9	47	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.52	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.50	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.52	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-1-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-03
		File ID:	2411930-03.d
Sampled:	09/10/24 15:00	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 04:03
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	521.96 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	4.8	2.1	3.8	
2706-90-3	Perfluoropentanoic acid (PFPeA)	6.3	0.41	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	5.5	0.23	0.96	
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.2	0.25	0.96	
335-67-1	Perfluorooctanoic acid (PFOA)	160	0.25	0.96	
375-95-1	Perfluorononanoic acid (PFNA)	0.92	0.18	0.96	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.23	0.20	0.96	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.96	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.96	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.28	0.96	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.25	0.96	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.2	0.20	0.96	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.96	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.39	0.27	0.96	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.32	0.96	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.3	0.37	0.96	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.96	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.96	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.96	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.72	3.8	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.9	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.1	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.96	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.31	0.96	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.32	0.96	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.96	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.38	0.96	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.6	9.6	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.6	9.6	

1 - FORM I

ANALYSIS DATA SHEET

MW-1-09102024

Laboratory: Pace New England Work Order: 2411930
 Client: NYDEC_AECOM Environment - Lai Project: NOW Corporation (Groundwater Sampling) - CO
 Matrix: Ground Water Laboratory ID: 2411930-03 File ID: 2411930-03.d
 Sampled: 09/10/24 15:00 Prepared: 10/08/24 00:00 Analyzed: 10/11/24 04:03
 Solids: Preparation: Draft Method 1633 Dilution: 1
 Initial/Final: 521.96 mL / 5 mL
 Batch: B388184 Sequence: S111976 Calibration: 2400938 Instrument: QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.99	3.8	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.79	3.8	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.92	3.8	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.6	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	48	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.1	48	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.53	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.52	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.53	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-7D-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-04
		File ID:	2411930-04.d
Sampled:	09/10/24 15:30	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 04:19
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	547.24 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	5.4	2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.9	0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	6.0	0.22	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.2	0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)	270	0.24	0.91	
375-95-1	Perfluorononanoic acid (PFNA)	0.73	0.17	0.91	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.97	0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.3	0.19	0.91	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.35	0.26	0.91	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.3	0.35	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.68	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-7D-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-04
		File ID:	2411930-04.d
Sampled:	09/10/24 15:30	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 04:19
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	547.24 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.98	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.7	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

DUP-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-05
		File ID:	2411930-05.d
Sampled:	09/10/24 00:00	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 04:34
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	508.49 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	4.8	2.1	3.9	
2706-90-3	Perfluoropentanoic acid (PFPeA)	5.5	0.42	2.0	
307-24-4	Perfluorohexanoic acid (PFHxA)	5.8	0.24	0.98	
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.2	0.26	0.98	
335-67-1	Perfluorooctanoic acid (PFOA)	160	0.26	0.98	
375-95-1	Perfluorononanoic acid (PFNA)	0.81	0.19	0.98	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	0.20	0.98	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.20	0.98	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.20	0.98	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.29	0.98	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.26	0.98	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.0	0.21	0.98	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.98	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.45	0.27	0.98	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.32	0.98	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.6	0.38	0.98	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.25	0.98	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.98	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.98	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.73	3.9	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		3.0	3.9	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.1	3.9	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.23	0.98	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.32	0.98	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.33	0.98	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.35	0.98	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.39	0.98	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.7	9.8	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.6	9.8	

1 - FORM I

ANALYSIS DATA SHEET

DUP-09102024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-05
		File ID:	24I1930-05.d
Sampled:	09/10/24 00:00	Prepared:	10/08/24 00:00
		Analyzed:	10/11/24 04:34
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	508.49 mL / 5 mL		
Batch:	B388184	Sequence:	S111976
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		1.0	3.9	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.81	3.9	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.95	3.9	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.1	3.9	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.8	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	49	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.3	49	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.34	2.0	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.55	2.0	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.53	2.0	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.54	2.0	

1 - FORM I

ANALYSIS DATA SHEET

MW-4D-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-06
		File ID:	2411930-06.d
Sampled:	09/11/24 11:30	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 20:42
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	548.96 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27	0.22	0.91	J
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)	0.48	0.24	0.91	J
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.91	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.19	0.91	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.25	0.91	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.35	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.68	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.1	0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-4D-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-06
		File ID:	24I1930-06.d
Sampled:	09/11/24 11:30	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 20:42
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	548.96 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.98	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.6	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-12D-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-07
		File ID:	2411930-07.d
Sampled:	09/11/24 12:40	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 20:58
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	520.95 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.1	3.8	
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.5	0.41	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	3.3	0.23	0.96	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.72	0.25	0.96	J
335-67-1	Perfluorooctanoic acid (PFOA)	15	0.25	0.96	
375-95-1	Perfluorononanoic acid (PFNA)		0.18	0.96	
335-76-2	Perfluorodecanoic acid (PFDA)		0.20	0.96	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.20	0.96	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.96	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.28	0.96	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.25	0.96	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.78	0.20	0.96	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.96	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.42	0.27	0.96	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.32	0.96	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.99	0.37	0.96	PF-23
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.96	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.96	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.96	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.72	3.8	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		2.9	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.1	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.96	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF		0.31	0.96	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.32	0.96	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.96	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.38	0.96	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.6	9.6	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(N		2.6	9.6	

1 - FORM I

ANALYSIS DATA SHEET

MW-12D-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-07
		File ID:	24I1930-07.d
Sampled:	09/11/24 12:40	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 20:58
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	520.95 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.99	3.8	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.79	3.8	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.92	3.8	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.6	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	48	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.1	48	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.34	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.53	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.52	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.53	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-4S-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-08
		File ID:	2411930-08.d
Sampled:	09/11/24 12:45	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:14
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	561.69 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	4.6	1.9	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.8	0.38	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	2.2	0.21	0.89	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.3	0.24	0.89	
335-67-1	Perfluorooctanoic acid (PFOA)	38	0.23	0.89	
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.89	
335-76-2	Perfluorodecanoic acid (PFDA)		0.18	0.89	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.18	0.89	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.89	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.26	0.89	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.23	0.89	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.53	0.19	0.89	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.89	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.25	0.89	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.29	0.89	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.34	0.89	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.22	0.89	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.89	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.89	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.66	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.7	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		0.99	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.89	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.29	0.89	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.30	0.89	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.32	0.89	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.89	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.4	8.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	8.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-4S-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-08
		File ID:	24I1930-08.d
Sampled:	09/11/24 12:45	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:14
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	561.69 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.92	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.73	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.86	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.95	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.9	8.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.4	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.31	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.49	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.48	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.49	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-12S-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-09
		File ID:	2411930-09.d
Sampled:	09/11/24 13:40	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:29
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	525.65 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	5.6	2.1	3.8	
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.7	0.41	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	2.3	0.23	0.95	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.5	0.25	0.95	
335-67-1	Perfluorooctanoic acid (PFOA)	8.5	0.25	0.95	
375-95-1	Perfluorononanoic acid (PFNA)	0.34	0.18	0.95	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.20	0.95	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.95	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.95	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.28	0.95	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.25	0.95	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	0.20	0.95	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.95	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.31	0.27	0.95	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.95	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.2	0.37	0.95	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.95	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.95	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.95	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.71	3.8	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.9	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.1	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.1	0.22	0.95	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.31	0.95	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.32	0.95	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.95	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.38	0.95	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.6	9.5	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.5	9.5	

1 - FORM I

ANALYSIS DATA SHEET

MW-12S-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-09
		File ID:	24I1930-09.d
Sampled:	09/11/24 13:40	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:29
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	525.65 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.98	3.8	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.78	3.8	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.92	3.8	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.5	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	48	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.0	48	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.53	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.51	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.53	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-3S-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-10
		File ID:	2411930-10.d
Sampled:	09/11/24 15:00	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:45
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	556.98 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.36	0.22	0.90	PF-22, J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.78	0.24	0.90	J
335-67-1	Perfluorooctanoic acid (PFOA)	15	0.24	0.90	
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.90	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.90	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.18	0.90	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.90	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.27	0.90	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.23	0.90	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.42	0.19	0.90	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.90	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.25	0.90	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.90	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.34	0.90	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.90	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.90	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.90	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.67	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.7	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.90	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.29	0.90	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.30	0.90	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.32	0.90	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.90	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	9.0	

1 - FORM I

ANALYSIS DATA SHEET

MW-3S-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-10
		File ID:	24I1930-10.d
Sampled:	09/11/24 15:00	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 21:45
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	556.98 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.93	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.74	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.86	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.96	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.5	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.31	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.50	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.48	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

Field Blank

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Field Blank	Laboratory ID:	2411930-11
		File ID:	2411930-11.d
Sampled:	09/11/24 16:35	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:01
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	487.35 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.2	4.1	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.44	2.1	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.25	1.0	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.27	1.0	
335-67-1	Perfluorooctanoic acid (PFOA)		0.27	1.0	
375-95-1	Perfluorononanoic acid (PFNA)		0.19	1.0	
335-76-2	Perfluorodecanoic acid (PFDA)		0.21	1.0	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.21	1.0	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.21	1.0	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.30	1.0	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.27	1.0	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.22	1.0	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.26	1.0	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.29	1.0	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.34	1.0	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.39	1.0	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.26	1.0	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.30	1.0	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.30	1.0	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.77	4.1	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		3.1	4.1	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.1	4.1	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.24	1.0	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.34	1.0	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.35	1.0	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.37	1.0	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.41	1.0	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.8	10	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.7	10	

1 - FORM I

ANALYSIS DATA SHEET

Field Blank

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Field Blank	Laboratory ID:	24I1930-11
		File ID:	24I1930-11.d
Sampled:	09/11/24 16:35	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:01
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	487.35 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		1.1	4.1	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.84	4.1	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.99	4.1	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.1	4.1	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.2	10	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		12	51	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.7	51	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.36	2.1	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.57	2.1	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.55	2.1	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.57	2.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-8-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-12
		File ID:	2411930-12.d
Sampled:	09/11/24 18:15	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:16
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	534.98 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.40	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.25	0.22	0.93	J
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.25	0.93	
335-67-1	Perfluorooctanoic acid (PFOA)	1.2	0.24	0.93	
375-95-1	Perfluorononanoic acid (PFNA)		0.18	0.93	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.93	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.93	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.93	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.28	0.93	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.93	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.20	0.93	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.93	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.26	0.93	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.93	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.36	0.93	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.93	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.93	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.93	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.70	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.93	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.31	0.93	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.32	0.93	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.93	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.93	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.6	9.3	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.5	9.3	

1 - FORM I

ANALYSIS DATA SHEET

MW-8-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-12
		File ID:	24I1930-12.d
Sampled:	09/11/24 18:15	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:16
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	534.98 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.96	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.77	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.90	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.3	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	47	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.9	47	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.52	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.50	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.52	1.9	

1 - FORM I

ANALYSIS DATA SHEET

OW-6-09122024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-13
		File ID:	2411930-13.d
Sampled:	09/12/24 10:05	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:33
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	547.13 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	12	2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)	5.4	0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	11	0.22	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)	8.8	0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)	60	0.24	0.91	
375-95-1	Perfluorononanoic acid (PFNA)	0.49	0.17	0.91	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	0.19	0.91	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.50	0.26	0.91	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.98	0.35	0.91	PF-23
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.68	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

OW-6-09122024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-13
		File ID:	24I1930-13.d
Sampled:	09/12/24 10:05	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:33
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	547.13 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.98	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.7	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-6D-09122024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-14
		File ID:	2411930-14.d
Sampled:	09/12/24 11:32	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:49
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	544.73 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	2.6	2.0	3.7	J
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.1	0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	1.9	0.22	0.92	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.2	0.24	0.92	
335-67-1	Perfluorooctanoic acid (PFOA)	44	0.24	0.92	
375-95-1	Perfluorononanoic acid (PFNA)	0.19	0.17	0.92	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.92	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.92	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.92	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.27	0.92	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.92	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.64	0.19	0.92	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.92	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.32	0.26	0.92	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.92	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.68	0.35	0.92	PF-23, J
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.92	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.92	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.92	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.69	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.92	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF		0.30	0.92	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.31	0.92	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.92	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.92	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.5	9.2	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(N		2.5	9.2	

1 - FORM I

ANALYSIS DATA SHEET

MW-6D-09122024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-14
		File ID:	24I1930-14.d
Sampled:	09/12/24 11:32	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 22:49
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	544.73 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.95	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.98	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.2	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.7	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.50	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.51	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-6S-09122024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-15
		File ID:	2411930-15.d
Sampled:	09/12/24 14:10	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 23:05
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	552.01 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	9.1	2.0	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)	7.2	0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	8.6	0.22	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)	7.7	0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)	84	0.24	0.91	
375-95-1	Perfluorononanoic acid (PFNA)	1.3	0.17	0.91	
335-76-2	Perfluorodecanoic acid (PFDA)	1.2	0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.18	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.2	0.19	0.91	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.62	0.25	0.91	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.5	0.35	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.68	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		2.7	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.0	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.32	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-6S-09122024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-15
		File ID:	24I1930-15.d
Sampled:	09/12/24 14:10	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 23:05
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	552.01 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.93	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.74	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.87	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.97	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.6	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.50	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-3D-09122024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-16
		File ID:	2411930-16.d
Sampled:	09/12/24 12:00	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 23:52
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	549.82 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.71	0.39	1.8	J
307-24-4	Perfluorohexanoic acid (PFHxA)	1.2	0.22	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.0	0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)	21	0.24	0.91	
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.91	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.32	0.19	0.91	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.25	0.91	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.35	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.68	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-3D-09122024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-16
		File ID:	24I1930-16.d
Sampled:	09/12/24 12:00	Prepared:	10/09/24 00:00
		Analyzed:	10/10/24 23:52
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	549.82 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.97	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.6	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-11-09122024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-17
		File ID:	2411930-17.d
Sampled:	09/12/24 14:35	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:08
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	533.53 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.7	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.40	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.23	0.94	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.25	0.94	
335-67-1	Perfluorooctanoic acid (PFOA)		0.25	0.94	
375-95-1	Perfluorononanoic acid (PFNA)		0.18	0.94	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.94	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.94	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.94	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.28	0.94	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.94	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.20	0.94	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.24	0.94	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.26	0.94	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.31	0.94	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.36	0.94	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.94	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.27	0.94	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.27	0.94	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (PFHxS)		0.70	3.7	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (PFOS)		2.8	3.7	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (PFDS)		1.0	3.7	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.94	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeFOSAA)		0.31	0.94	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOSAA)		0.32	0.94	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.94	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.37	0.94	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol (NMeFOSAA-EtOH)		2.6	9.4	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSAA-EtOH)		2.5	9.4	

1 - FORM I

ANALYSIS DATA SHEET

MW-11-09122024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-17
		File ID:	24I1930-17.d
Sampled:	09/12/24 14:35	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:08
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	533.53 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.97	3.7	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.77	3.7	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.90	3.7	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.7	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.4	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	47	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.9	47	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.52	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.51	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.52	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-2-09102024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-19
		File ID:	2411930-19.d
Sampled:	09/12/24 17:05	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:24
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	549.51 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		2.0	3.6	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.39	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.22	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.24	0.91	
335-67-1	Perfluorooctanoic acid (PFOA)		0.24	0.91	
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.91	
335-76-2	Perfluorodecanoic acid (PFDA)		0.19	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.18	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.27	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.19	0.91	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.91	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.25	0.91	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.30	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.35	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.23	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.26	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.26	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.68	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		2.8	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.0	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.21	0.91	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF		0.30	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.31	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.33	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.36	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.5	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(		2.4	9.1	

1 - FORM I

ANALYSIS DATA SHEET

MW-2-09102024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-19
		File ID:	24I1930-19.d
Sampled:	09/12/24 17:05	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:24
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	549.51 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.75	3.6	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.88	3.6	
763051-92-9	11CI-PF3OUdS (F53B Major)		0.98	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.0	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		10	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		8.6	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.32	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.51	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.49	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.50	1.8	

1 - FORM I

ANALYSIS DATA SHEET

MW-9-09112024

Laboratory:	Pace New England	Work Order:	2411930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	2411930-20
		File ID:	2411930-20.d
Sampled:	09/11/24 16:50	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:39
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	521.87 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	3.4	2.1	3.8	J
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	0.41	1.9	J
307-24-4	Perfluorohexanoic acid (PFHxA)	1.4	0.23	0.96	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.5	0.25	0.96	
335-67-1	Perfluorooctanoic acid (PFOA)	15	0.25	0.96	
375-95-1	Perfluorononanoic acid (PFNA)	0.31	0.18	0.96	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.20	0.96	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.19	0.96	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.19	0.96	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.28	0.96	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.25	0.96	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.89	0.20	0.96	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.96	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.43	0.27	0.96	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.32	0.96	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.6	0.37	0.96	PF-23
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.24	0.96	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.96	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.96	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.72	3.8	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		2.9	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.1	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.22	0.96	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF		0.31	0.96	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.32	0.96	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.34	0.96	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.38	0.96	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.6	9.6	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(N		2.6	9.6	

1 - FORM I

ANALYSIS DATA SHEET

MW-9-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-20
		File ID:	24I1930-20.d
Sampled:	09/11/24 16:50	Prepared:	10/09/24 00:00
		Analyzed:	10/11/24 00:39
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	521.87 mL / 5 mL		
Batch:	B387736	Sequence:	S111999
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.99	3.8	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.79	3.8	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.92	3.8	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.6	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	48	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.1	48	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.33	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.53	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.52	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.53	1.9	

1 - FORM I

ANALYSIS DATA SHEET

MW-10-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-21
		File ID:	24I1930-21.d
Sampled:	09/11/24 15:15	Prepared:	10/02/24 00:00
		Analyzed:	10/04/24 03:24
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	511.34 mL / 5 mL		
Batch:	B387576	Sequence:	S111730
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	4.2	2.1	3.9	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	0.42	2.0	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.47	0.23	0.98	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.31	0.26	0.98	J
335-67-1	Perfluorooctanoic acid (PFOA)	8.0	0.26	0.98	
375-95-1	Perfluorononanoic acid (PFNA)	1.0	0.18	0.98	
335-76-2	Perfluorodecanoic acid (PFDA)		0.20	0.98	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.20	0.98	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.20	0.98	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	UJ	0.29	0.98	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	UJ	0.25	0.98	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.9	0.21	0.98	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.25	0.98	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.85	0.27	0.98	J
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.32	0.98	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.2	0.38	0.98	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.25	0.98	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.98	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.28	0.98	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.73	3.9	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (		3.0	3.9	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.1	3.9	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.23	0.98	
31506-32-8	N-methyl perfluorooctanesulfonamide (NMeF	UJ	0.32	0.98	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	UJ	0.33	0.98	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.35	0.98	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.39	0.98	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	UJ	2.7	9.8	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol(N	UJ	2.6	9.8	

CWL 11/22/24

1 - FORM I

ANALYSIS DATA SHEET

MW-10-09112024

Laboratory:	Pace New England	Work Order:	24I1930
Client:	NYDEC_AECOM Environment - Lai	Project:	NOW Corporation (Groundwater Sampling) - CO
Matrix:	Ground Water	Laboratory ID:	24I1930-21
		File ID:	24I1930-21.d
Sampled:	09/11/24 15:15	Prepared:	10/02/24 00:00
		Analyzed:	10/04/24 03:24
Solids:		Preparation:	Draft Method 1633
		Dilution:	1
Initial/Final:	511.34 mL / 5 mL		
Batch:	B387576	Sequence:	S111730
		Calibration:	2400938
		Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		1.0	3.9	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.80	3.9	
756426-58-1	9CI-PF3ONS (F53B Minor)		0.94	3.9	
763051-92-9	11CI-PF3OUdS (F53B Major)		1.0	3.9	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		2.1	9.8	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		11	49	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:1		9.3	49	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.34	2.0	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.54	2.0	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.53	2.0	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.54	2.0	