

Groundwater Monitoring Report March 2025 Sampling Event

For Work Assignment D009803-21
Northeast Alloys and Metals, Site No. 633045

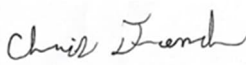
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Acronyms and Abbreviations

ng/L	nanograms per liter
µg/L	micrograms per liter
AECOM	AECOM USA, Inc.
AWQ GV	Ambient Water Quality Guidance Value
AWQS	Ambient Water Quality Standard
bgs	below ground surface
BMP	best management practice
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	cis-1,2-dichloroethene
COC	contaminant of concern
CVOC	chlorinated volatile organic compound
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
DO	dissolved oxygen
DUSR	data usability summary report
GCT	groundwater collection and treatment
GV	Guidance Value
HDPE	high-density polyethylene
ISCO	in-situ chemical oxidation
MiHPT	membrane interface hydraulic profiling tool
NYSDEC	New York State Department of Environmental Conservation
OM&M	operation, monitoring, and maintenance
ORP	oxidation-reduction potential
PDB	passive diffusion bag
PDI	pre-design investigation
PFAS	per- and polyfluorinated alkyl substance
PFBA	perfluorobutanoic acid
PFBS	perfluorobutanesulfonic acid
PFDA	perfluorodecanoic acid
PFDaA	perfluorododecanoic acid
PFHpA	perfluoroheptanoic acid
PFHxA	perfluorohexanoic acid
PFHxS	perfluorohexanesulfonic acid
PFMPA	perfluoro-3-methoxypropanoic acid
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PFOSA	perfluorooctanesulfonamide
PFPeA	perfluoropentanoic acid
PFTeA	perfluorotetradecanoic acid
PFUnA	perfluoroundecanoic acid

POTW	publicly-owned treatment works
RI/FS	remedial investigation/feasibility study
ROD	Record of Decision
SVE	soil vapor extraction
trans-1,2-DCE	trans-1,2-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
US EPA	United States Environmental Protection Agency
VOC	volatile organic compound

1 Introduction

AECOM USA, Inc. (AECOM) conducted a groundwater sampling event from March 18 to 20, 2025 at the Northeast Alloys and Metals Site (the "Site") in Utica, Oneida County, New York (**Figure 1**). Monitoring activities were conducted in accordance with the approved scope of work for Work Assignment No. D009803-21 with the New York State Department of Environmental Conservation (NYSDEC). This report presents the results of the monitoring event and relevant historical data.

1.1 Site Description

The 3.9-acre Site, located at 2145 Dwyer Avenue in the City of Utica, New York (**Figure 2**), was a former metal fabrication/recycling facility. The primary contaminants of concern (COCs) are trichloroethene (TCE) and cis-1,2-dichloroethene (cis-1,2-DCE). A groundwater collection and treatment (GCT) system, installed in 2001, was in operation at the northern end of the Site until December 10, 2020 when it was turned off per an NYSDEC directive. The GCT system consisted of a groundwater collection trench that discharged to a vault where groundwater was aerated to treat chlorinated volatile organic compounds (CVOCs). Prior to system shutdown, an average of approximately 200,000 gallons of shallow groundwater were treated monthly and discharged under permit to the Oneida County sanitary sewer system. Treated water volumes were submitted via reporting to the NYSDEC and Oneida County Sewer District.

1.2 Site Background

Per the Record of Decision (ROD), the facility was historically used for electronics manufacturing (1950s), as a machine shop (1960s), and as a commercial laundry (1970s) prior to operation as a metals recycling facility between 1986 and 1991. In 1989, an underground fuel oil storage tank was removed from the southwestern portion of the courtyard and the initial presence of CVOC contamination at the Site was reported. Subsequent investigations resulted in the detection of CVOCs in soil and groundwater. TCE and cis-1,2-DCE were identified as COCs, although other volatile organic compounds (VOCs) were reported at lower levels. Later interviews reportedly alleged that a drum of TCE had been pierced in the courtyard by a forklift and had discharged to a storm drain. The Site was added to the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site (Site No. 633045) following an environmental investigation in 1994. The remedial investigation/feasibility study (RI/FS) was completed in 1997, and the ROD was issued in March 1998.

The selected remedy for the Site included: 1) installation of a groundwater collection and treatment system that discharges into the local publicly-owned treatment works (POTW), 2) installation of a soil vapor extraction (SVE) system at the recovery wells, 3) excavation of contaminated soil in the eastern gate area in the vicinity of MW-9 to meet soil cleanup objectives, 4) implementation of restrictions on groundwater use until groundwater standards are attained, and 5) implementation of a site-wide operation, monitoring, and maintenance (OM&M) program to ensure that the remedial program is effective and that the remedial action goals are obtained.

Operation of the GCT system commenced in March 2001. An OM&M program was in place for the Site. Periodic groundwater sampling events have been performed since May 2005 to monitor the effectiveness of the remedy selected in the ROD.

According to the OM&M Manual (October 2001, prepared by URS Corporation), the results of the pre-design investigation (PDI) led to a ROD modification with respect to the proposed SVE system. Three recovery wells were installed between 1997 and 1999. The PDI results reportedly indicated that there was insufficient vadose zone contamination in the vicinity of the recovery wells to successfully operate an SVE system.

In 2008, AECOM completed additional investigations at the Site to evaluate potential data gaps with respect to building areas that were previously inaccessible but had been demolished by new owners. The investigation identified soil impacts on-site and beneath the former building slabs that were significantly

higher than soil cleanup objectives. Additional overburden and bedrock monitoring wells were installed. Soil vapor monitoring was completed, which led to installation of a sub-slab depressurization system in the main on-site building.

In 2011, AECOM evaluated the cost and feasibility of potential supplemental remedial alternatives, including excavation and in-situ chemical oxidation (ISCO). NYSDEC elected to pursue ISCO as a potential alternative to remediate the persistent contaminant mass. In July 2013, four new monitoring wells (MW-15, MW-16, MW-17, and MW-18) were installed in the source area to better gauge the success of the technology. These wells, along with several others, were sampled to represent baseline water quality prior to injections. Baseline results at the new wells exhibited the highest reported concentrations of VOCs to date. These results supported the conclusion that despite the low concentrations in groundwater collected in the GCT system, contaminant source material which is not attenuating remains on-site.

In early 2014, two consecutive full-scale rounds of ISCO injections of sodium permanganate were executed at the Site. Chemicals were injected at depths of 2 to 12 feet below ground surface (bgs) at an average rate of 3 gallons per minute. Overall, the low permeability and heterogeneity of site soils restricted delivery of the chemical and limited contact in some zones. Four post-injection groundwater monitoring events and one soil sampling event occurred between August 2014 and September 2015. Groundwater samples were collected using passive diffusion bags (PDBs). The results of the monitoring, which were documented in a Remedial Action Progress Report (March 2016), indicated that ISCO injections failed to reduce VOC concentrations in soil, but reduced VOC concentrations in groundwater to an extent. Laboratory results indicated that rebound did eventually occur in some wells. The greatest overall reductions occurred in the new source area wells; however, contaminant concentrations remain significantly elevated above groundwater standards.

In August 2024, a membrane interface hydraulic profiling tool (MiHPT) investigation and soil sampling program was conducted to identify the remaining impacts in the subsurface of the Site under NYSDEC Work Assignment D009803-42. The investigation consisted of twenty-six MiHPT borings and fifteen soil borings, fourteen of which were co-located with the MiHPT borings.

2 Sampling

2.1 Sample Locations and Field Observations

Groundwater monitoring, which includes measuring and recording groundwater elevations and water quality parameters, has been conducted on a periodic basis for on-site wells (**Figure 2**) since 2005, with newer wells added to the sampling program as they were installed. 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.

Prior to the start of sampling, a synoptic groundwater gauging round was conducted where depth-to-groundwater and depth-to-bottom measurements were collected for each well 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 a shallow monitoring well groundwater contour map for the Site (**Figure 3**). **Table 1** also contains construction details for the on-site wells.

2.2 Groundwater Sampling Methodology

Wells were purged with a peristaltic 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 the Monitoring Well Purging/Sampling Forms (**Appendix A**).

All twenty wells sampled for VOC analysis were also sampled for emerging contaminant analysis (i.e., per- and polyfluorinated alkyl substances [PFAS] and 1,4-dioxane). The field sampling team followed NYSDEC and AECOM protocols for the collection of samples to prevent cross-contamination by PFAS-containing materials during sampling.

The VOC samples were collected in laboratory-supplied bottles (40-milliliter vials preserved with hydrochloric acid) and shipped to Pace Analytical Laboratory in East Longmeadow, Massachusetts for analysis of VOCs via United States Environmental Protection Agency (US EPA) Method 624.1. Samples were also submitted to the laboratory for 1,4-dioxane analysis via US EPA Method 8270E and for analysis of the 40-analyte PFAS list via US EPA Draft Method 1633. All samples were packed in coolers with ice and shipped under standard chain-of-custody procedures. PFAS samples were packed in separate coolers from the other samples.

Purge water and decontamination water generated during the sampling event was containerized in properly labeled 55-gallon steel drums and placed within the locked GCT system equipment shed (which is surrounded by a locked fence). The waste drums have been profiled as required by the disposal facility based on groundwater laboratory data, and await pickup by Clean Harbors Environmental Services, Inc., an AECOM subcontractor, for transportation and 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

3.1 Volatile Organic Compounds

A cumulative summary of the analytical VOC data from the groundwater sampling events conducted between May 2005 and March 2025 is presented as **Table 2**. Results are compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for groundwater. Copies of the laboratory reports are included in **Appendix C**.

Previous investigations indicated that the primary COCs for the Site are TCE, cis-1,2-DCE, and vinyl chloride, although other VOCs are present including benzene, toluene, ethylbenzene, and/or xylenes (BTEX) and related compounds in an area in the northern portion of the Site. **Figure 4** depicts the concentrations of detected VOC analytes from the March 2025 sampling event.

In general, the VOC contaminant concentrations reported indicate that:

- Ten of the twenty monitoring wells sampled contained at least one VOC detection: MW-5, MW-6, MW-8, MW-9, MW-11, MW-14, MW-15, MW-16, MW-17 and MW-18.
- Laboratory results from eight of the wells (MW-5, MW-6, MW-9, MW-14, MW-15, MW-16, MW-17 and MW-18) indicated exceedances of the AWQS/GV for one or more compound.
- VOCs were not detected in the groundwater samples collected from BR-1, BR-2, BR-3, MW-1, MW-3, MW-4, MW-7R, MW-10 (or its duplicate sample), MW-12 or MW-13.

VOCs have never been detected in BR-1, BR-3, or MW-1 since their installation, according to all available data (i.e., May 2005 to present).

VOCs (chlorobenzene, 1,2-dichlorobenzene, and toluene) had previously been detected in MW-3 during the September 2022 sampling event, none of which were above the applicable AWQS/GV. During the December 2023 and March 2025 sampling events, no VOCs were detected in MW-3.

In December 2018, BR-2 and MW-4 contained their first VOC detections since being installed in 2008 and 2005, respectively, although there were no exceedances of applicable AWQS/GV in either well. Both wells contained approximately 1.5 micrograms per liter (µg/L) of total VOCs, consisting of cis-1,2-DCE and TCE. VOCs have not been detected in either BR-2 or MW-4 since that time.

Monitoring well MW-5 contained 41.2 µg/L of total VOCs during the March 2025 sampling event, with three analytes (1,1-dichloroethane [1,1-DCA], cis-1,2-DCE, and vinyl chloride) exceeding their respective AWQS/GV. In December 2023, the groundwater sample contained 123 µg/L of total VOCs, with the same three analytes exceeding the AWQS/GV.

Groundwater collected from MW-6 during the March 2025 sampling event contained 266 µg/L of total VOCs, with four analytes (1,1-DCA, cis-1,2-DCE, 1,1,1-trichloroethane [1,1,1-TCA], and vinyl chloride) exceeding the AWQS/GV. Sampling during the prior event in December 2023 reported 208 µg/L of total VOCs, with the same four analytes exceeding the AWQS/GV.

Well MW-8 contained a low concentration of toluene (1.13 µg/L) during the March 2025 sampling event. This is the first detection of a VOC in MW-8 since the August 2007 event, when cis-1,2-DCE was detected at a concentration of 0.8 µg/L.

One analyte, TCE, was detected at a concentration exceeding its AWQS/GV in the sample collected from MW-9 in March 2025 (58.8 µg/L). The total VOC concentration detected in MW-9 was 61.9 µg/L. The prior event in December 2023 reported 15.3 µg/L of total VOCs, with cis-1,2-DCE and TCE exceeding their respective AWQS/GV.

Monitoring well MW-11 contained a low concentration of TCE (0.30 µg/L) during the March 2025 sampling event. This well contained a similar concentration of TCE (0.38 µg/L) in December 2023.

Meanwhile, MW-12 contained no detections of VOCs during the March 2025 sampling event; however, a trace concentration of benzene (0.23 J µg/L) was detected during the December 2023 sampling event. These wells have historically contained non-detect or low levels of VOCs.

Groundwater collected from MW-14 during the March 2025 sampling event contained 219 µg/L of total VOCs, with seven analytes (benzene, chlorobenzene, 1,2-dichlorobenzene, ethylbenzene, toluene, m&p-xylenes, and o-xylene) exceeding their respective AWQS/GV. In December 2023, the well contained 268 µg/L of total VOCs, with the same seven analytes exceeding the AWQS/GV. The August 2024 MiHPT investigation and soil sampling results confirmed an area of BTEX impacts in the vicinity of MW-14.

Well MW-15 contained 730 µg/L of total VOCs during the March 2025 sampling event, with two analytes (cis-1,2-DCE and TCE) exceeding their respective AWQS/GV. In December 2023, the groundwater sample contained 1,158 µg/L of total VOCs, with four analytes (cis-1,2-DCE, 1,1,1-TCA, TCE, and vinyl chloride) exceeding their AWQS/GV.

Groundwater collected from MW-16 during the March 2025 sampling event contained 4,447 µg/L of total VOCs, with six analytes (1,1-DCA, 1,1-dichloroethene [1,1-DCE], cis-1,2-DCE, trans-1,2-dichloroethene [trans-1,2-DCE], TCE, and vinyl chloride) exceeding their respective AWQS/GV. In December 2023, the groundwater sample contained 6,146 µg/L of total VOCs, with the same six analytes exceeding the AWQS/GV.

MW-17 contained 88,255 µg/L of total VOCs during the March 2025 sampling event, with five analytes (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, TCE, and vinyl chloride) exceeding the AWQS/GV. In December 2023, the groundwater sample contained 116,390 µg/L of total VOCs, with four analytes (1,1-DCE, cis-1,2-DCE, TCE, and vinyl chloride) exceeding their respective AWQS/GV.

Groundwater collected from monitoring well MW-18 during the March 2025 sampling event contained 199 µg/L of total VOCs, with three analytes (cis-1,2-DCE, TCE, and vinyl chloride) exceeding their AWQS/GV. In December 2023, the well contained 174 µg/L of total VOCs, with two analytes (cis-1,2-DCE and vinyl chloride) exceeding the AWQS/GV.

Figure 5 displays total VOC isoconcentration contours site-wide, while **Figure 6** shows the progression of total VOCs in wells with notable concentrations (MW-5, MW-6, MW-14, MW-15, MW-16, MW-17, and MW-18) over time. Monitoring wells MW-6 and MW-18 have displayed significant reductions in total VOC concentrations since sampling began in 2005 and 2013, respectively. The trendlines for monitoring wells MW-15 and MW-17 also present noteworthy reductions in total VOC concentrations. In contrast, monitoring wells MW-5 and MW-16 have experienced slight increases in total VOC concentrations over the lifetimes of the wells. Total VOC concentrations in MW-14 have remained relatively stable over the life of the well.

3.2 Emerging Contaminants

Table 3 presents the laboratory results for 1,4-dioxane and PFAS. Results are compared to the Ambient Water Quality Guidance Values (AWQ GV) established by the NYSDEC, where applicable. **Figure 7**, **Figure 8**, and **Figure 9** display the March 2025 analytical results for perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), and 1,4-dioxane, respectively, for the on-site groundwater monitoring wells. The Category A laboratory reports and data usability summary reports (DUSRs) for the emerging contaminant data are provided in **Appendix C**.

Of the twenty wells evaluated for 1,4-dioxane in March 2025, three wells (MW-5, MW-6, and MW-16) contained concentrations greater than the 0.35 µg/L AWQ GV for the compound, with 2.8 µg/L in MW-5, 18 µg/L in MW-6, and 1.9 µg/L in MW-16. Two wells contained 1,4-dioxane detections below the AWQ GV: MW-12 and MW-17.

In general, PFAS concentrations reported for the March 2025 sampling event indicate that:

- Seventeen of the twenty monitoring wells sampled contained at least one PFAS detection.
- Laboratory results from two of the wells (MW-17 and MW-18) indicated exceedances of the AWQ GV for PFOS, which is 2.7 nanograms per liter (ng/L).

- At least one individual PFAS detection was significantly elevated (greater than 40 ng/L) in four wells during the March 2025 groundwater monitoring event.

BR-1, BR-3, and MW-11 did not contain PFAS at concentrations exceeding the method detection limits for the individual compounds during the March 2025 sampling event.

Well BR-2 contained a detection of one analyte (PFBA) during the March 2025 event, while in December 2023 two analytes (PFBA and Perfluoropentanoic acid [PFPeA]) were reported. Similarly, MW-1 contained low concentrations of PFBA and Perfluorobutanesulfonic acid (PFBS) in March 2025, while in December 2023 only PFAS analytes PFBA and PFPeA were detected.

In March 2025, monitoring well MW-3 contained four analytes (PFOA, PFOS, PFBA, and Perfluoroheptanoic acid [PFHpA]). PFOA was detected at a concentration of 1.2 J ng/L, while the well contained 0.59 J ng/L of PFOS. In December 2023, the well contained only one analyte, PFOS, at a low concentration (0.56 J ng/L).

The sample collected from MW-4 in March 2025 exhibited no detections of PFOA or PFOS, but had a low-level detection of PFBA (2.6 J ng/L). The sample collected from MW-4 in December 2023 only contained a trace concentration of PFBS (0.28 J ng/L).

In March 2025, MW-5 did not contain PFAS above the NYSDEC AWQ GV. PFOA and PFOS were each detected at concentrations of 2.1 ng/L. Three other PFAS analytes (PFBA, Perfluorohexanoic acid [PFHxA] and PFHpA) were also reported in the sample. In December 2023, MW-5 contained one PFAS analyte, PFOS, at a concentration slightly above the NYSDEC AWQ GV (2.8 ng/L). PFOA was detected at a concentration of 2.7 ng/L, which is below the AWQ GV for the compound. Additionally, five other PFAS analytes were reported in the sample.

Monitoring well MW-6 contained a PFOA concentration of 3.0 ng/L in March 2025, while the PFOS concentration was 0.60 J ng/L. Seven other PFAS (PFBA, PFHxA, PFHpA, Perfluorodecanoic acid [PFDA], Perfluoroundecanoic acid [PFUnA], Perfluorododecanoic acid [PFDoA] and Perfluorotetradecanoic acid [PFTeA]) were also detected. In December 2023, MW-6 contained PFOA (2.6 ng/L) and PFOS (0.41 J ng/L), along with five other PFAS analytes.

The sample collected from monitoring well MW-7R consisted of three detected PFAS (PFBA, PFPeA, and PFHxA) in March 2025. In December 2023, MW-7R contained five PFAS detections, including PFOS (1.0 ng/L).

The monitoring well MW-8 sample contained PFOS (0.49 J ng/L) and PFBA (7.9 ng/L) during the March 2025 sampling event. In December 2023, PFAS was not detected in MW-8.

Monitoring well MW-9 contained 3.9 ng/L of PFOA in March 2025. Six other PFAS (PFBA, PFPeA, PFHxA, PFHpA, PFBS and Perfluorooctanesulfonamide [PFOSA]) were detected as well. In December of 2023, there were five PFAS detected in the MW-9 sample, including 1.4 ng/L of PFOA.

In March 2025, well MW-10 contained PFOA at a concentration of 0.91 J ng/L, as well as three other PFAS (PFBA, PFHxA and PFBS). The duplicate sample collected contained similar concentrations of the same compounds, although PFBS was not detected. The sample collected from MW-10 in December 2023 did not contain PFAS detections.

Well MW-11 did not contain detections of PFAS in March 2025. In December 2023, the MW-11 sample contained one PFAS (PFBA, 1.5 J ng/L).

The sample collected from monitoring well MW-12 in March 2025 contained PFOA (2.5 ng/L) and PFOS (1.1 J ng/L), both of which were below their respective AWQ GV. Additionally, PFBA (with an elevated concentration of 87 ng/L), PFHxA, PFHpA, PFBS and Perfluorohexanesulfonic acid [PFHxS] were also detected. The sample collected from MW-12 in December 2023 consisted of seven PFAS detections, including PFOA (3.3 ng/L) and PFOS (1.7 ng/L), both of which were below their respective AWQ GV.

In March 2025, well MW-13 contained detections of PFOA (1.1 J ng/L), PFOS (0.86 J ng/L) and five other PFAS (PFBA, PFHxA, PFHpA, Perfluorononanoic acid [PFNA], and PFOSA). The PFBA concentration in

the well was 34 ng/L. MW-13 contained detections of PFOA (0.43 J ng/L), PFOS (0.62 J ng/L) and three other PFAS in December 2023.

The sample collected from monitoring well MW-14 contained detections of PFOA (4.1 ng/L), PFOS (0.44 J ng/L), and three other PFAS (PFHxA, PFHpA, and perfluoro-3-methoxypropanoic acid [PFMPA]) in March 2025. PFMPA was detected in MW-14 at an elevated concentration (46 S-29 ng/L). The sample collected from MW-14 contained detections of PFOA (4.3 ng/L) and two other PFAS in December 2023.

Monitoring well MW-15 contained PFOA (0.70 J ng/L), PFOS (0.47 J ng/L) and two other PFAS (PFBA and PFHxA) in March 2025. In December 2023, the sample collected from the well did not contain PFOA or PFOS, but four other PFAS were detected, including PFBA which had the highest concentration at 3.8 ng/L.

In March 2025, MW-16 contained detections of five PFAS (PFOA, PFOS, PFBA, PFHxA and PFHpA). The PFOA concentration was 0.96 J ng/L and the PFOS concentration was 0.80 J ng/L. In December 2023, MW-16 contained detections of eight PFAS, including PFOA (0.98 J ng/L) and PFOS (1.1 ng/L).

Well MW-17 contained PFOA at a concentration of 5.0 ng/L in March 2025 while the PFOS concentration was 25 ng/L, which is above the NYSDEC AWQ GV for the compound. Six other PFAS (PFBA, PFHxA, PFHpA, PFNA, PFBS and PFOSA) were also detected during the monitoring event. PFBA was reported to have the highest concentration in the sample, with 370 ng/L. In December 2023, MW-17 contained PFOA (5.1 ng/L) and PFOS (30 ng/L, which is above the NYSDEC AWQ GV), along with nine other PFAS including PFBA (37 ng/L). Notably, the concentration of PFBA increased by an order of magnitude between the December 2023 and March 2025 groundwater monitoring events.

The groundwater sample collected from monitoring well MW-18 in March 2025 contained PFOS above the NYSDEC AWQ GV, with a concentration of 9.9 ng/L. Seven other PFAS (PFOA, PFBA, PFHxA, PFHpA, PFNA, PFBS and PFHxS) were detected. The PFOA concentration was 4.9 ng/L, which is below the AWQ GV for the compound. PFBA was reported at a concentration of 170 ng/L. In December 2023, the MW-18 sample contained PFOS at a concentration of 11 ng/L, which is above the NYSDEC AWQ GV. Seven other PFAS were detected, including PFOA (5.4 ng/L). As in MW-17, the concentration of PFBA in MW-18 increased considerably between December 2023 and March 2025.

4 Conclusions

The following conclusions are based on the March 2025 groundwater monitoring event and an understanding of overall Site conditions:

- Total dissolved-phase VOC concentrations decreased in seven monitoring wells when compared to the December 2023 sampling event: MW-5, MW-11, MW-12, MW-14, MW-15, MW-16, and MW-17. Concentrations in four wells (MW-6, MW-8, MW-9, and MW-18) increased between 2023 and 2025. These variations were slight in some wells. VOCs were not detected in the groundwater samples collected from ten wells (BR-1, BR-2, BR-3, MW-1, MW-3, MW-4, MW-7R, MW-10, MW-12 and MW-13) during the March 2025 monitoring event.
- Groundwater samples collected from MW-15, MW-16, and MW-17, installed in areas of elevated impacts in 2013 in advance of the injection program (along with MW-18), have contained the highest reported VOC concentrations at the Site in recent years. As indicated above, MW-15, MW-16, and MW-17 contained lower concentrations of total VOCs in March 2025 than in December 2023. Total VOC concentrations were an improvement over pre-injection results in the newer wells except for MW-16 (which contained similar levels as in 2013); however, groundwater quality remains significantly impacted north of the main on-site building and near the Former Degreasing Area located to the southeast of the GCT system equipment shed.
- MW-6 exhibited the highest concentration of total chlorinated VOCs (266 µg/L) among the historical monitoring wells installed during the RI, while MW-17 contained the highest concentration of total VOCs (88,255 µg/L) among the newer wells. Concentrations of VOCs at MW-17 remain lower than pre-injection levels; however, groundwater VOC concentrations in MW-14 and MW-16, after temporarily decreasing following injections, rebounded to near pre-injection levels.
- Monitoring well MW-14 contained concentrations of seven BTEX compounds above their respective AWQS/GV, including benzene, chlorobenzene, 1,2-dichlorobenzene, ethylbenzene, toluene, m&p-xylenes, and o-xylene. As confirmed during the August 2024 MiHPT investigation and soil sampling results, a separate source area of BTEX impacts is present on-site in the zone surrounding MW-14.
- Increases in VOC concentrations could be related to rebounding after injection substrates become ineffective, mobilization and redistribution of contaminant mass as a result of the injection process, differences in hydrogeologic and weather conditions between sampling events, etc. Wells installed in 2013 prior to the 2014 injection program were intentionally placed in zones of source material and contain groundwater that passes through highly-impacted heterogeneous soil; therefore, some variability can be expected from event to event. Additionally, to some degree, variability in data sets from significantly impacted wells could be affected by differences in sample dilution methods.
- While groundwater impacts continue to be present at high concentrations at the Site (e.g., 88,255 µg/L of total VOCs at MW-17), TCE only consists of <5% to 55% of the remaining total VOCs. The fact that most of the remaining impacts consist of breakdown products of TCE indicate that there is natural biodegradation occurring. Based on the low concentrations of VOCs reported in the GCT system influent between installation and system shutdown in 2020, the contaminant mass is not readily migrating. The mass appears to be confined to the source areas, aided by the low permeability of Site soils and the presence of overlying impervious surfaces in some areas.
- In March 2025, all wells that were sampled for VOCs were also sampled for emerging contaminants, specifically 1,4-dioxane and PFAS (40-analyte list). In the historical wells, MW-6 contained the highest 1,4-dioxane concentration (18 µg/L), while MW-12 had the highest concentration of total PFAS at 93.1 ng/L, including 2.5 ng/L of PFOA and 1.1 J ng/L of PFOS. Within the newer monitoring wells, MW-16 exhibited the highest 1,4-dioxane concentration with

1.9 µg/L, while MW-17 contained the highest total PFAS concentration (406 ng/L), including 5.0 ng/L of PFOA and 25 ng/L of PFOS, the latter of which is above the NYSDEC AWQ GV.

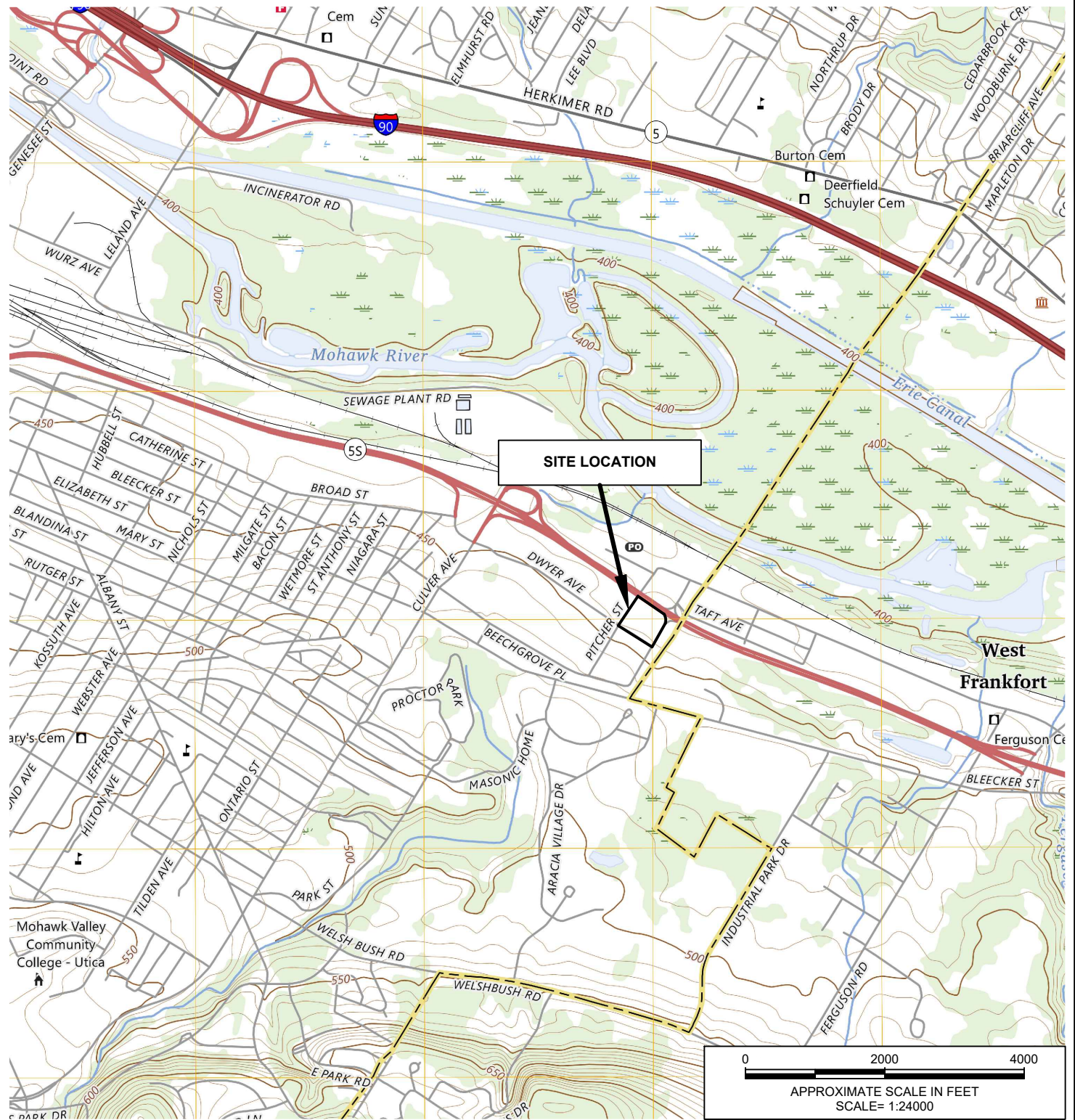
5 Planned Activities and Recommendations

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.

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

Based on the results of the August 2024 MiHPT investigation and available historical data, a Revised Focused Feasibility Study document is currently being prepared for the Site under NYSDEC Work Assignment D009803-42.

Figures



BASEMAP SOURCES:
USGS 7.5-minute Series Topographic Map 2023
Utica East, NY Quadrangle, Oneida Co. New York

AECOM

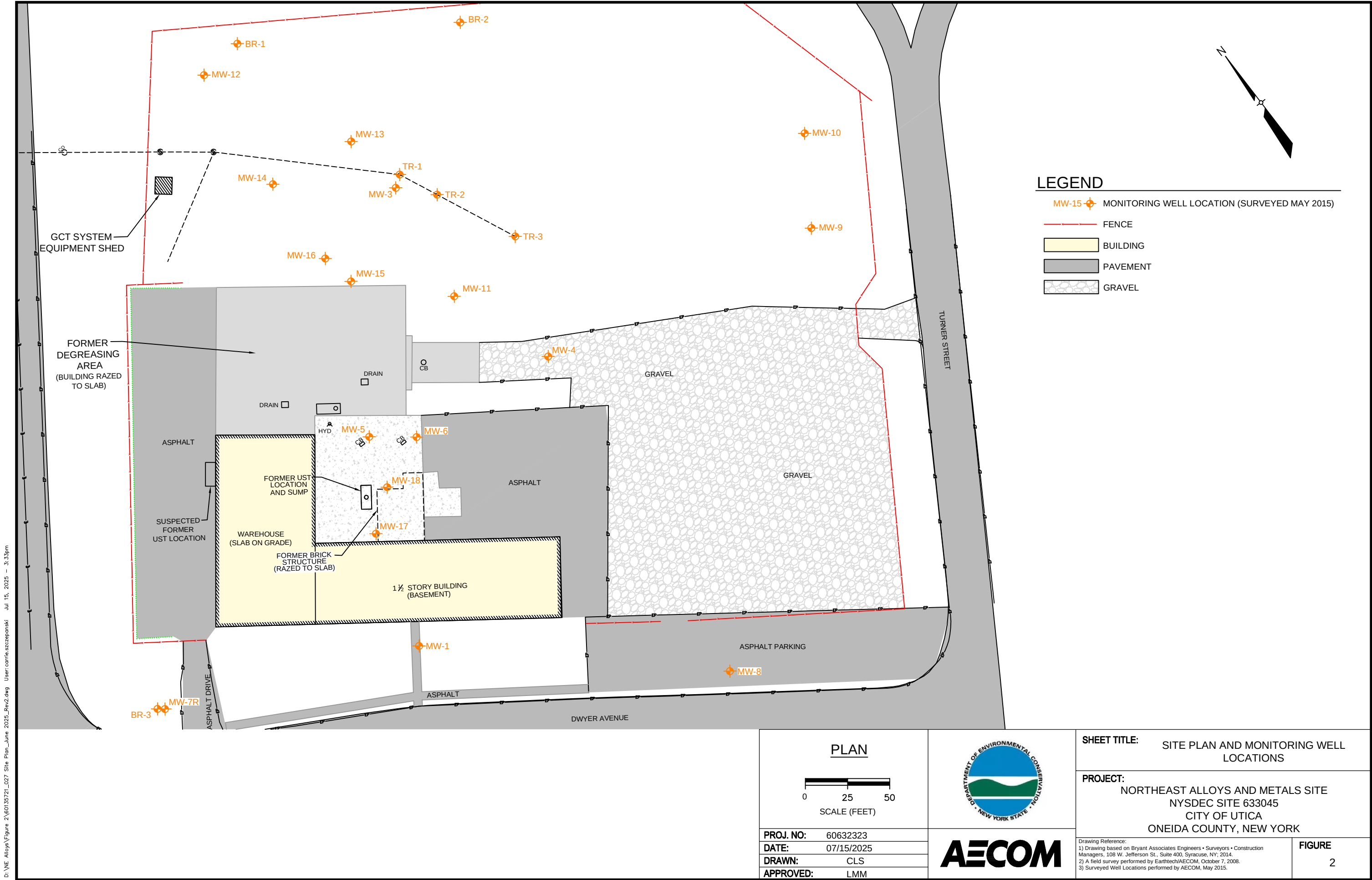
40 British American Boulevard
Latham, New York 12110
T: (518) 951-2200

FIGURE 1
SITE LOCATION MAP
NORTHEAST ALLOYS AND METALS SITE
2145 DWYER AVENUE
UTICA, NEW YORK

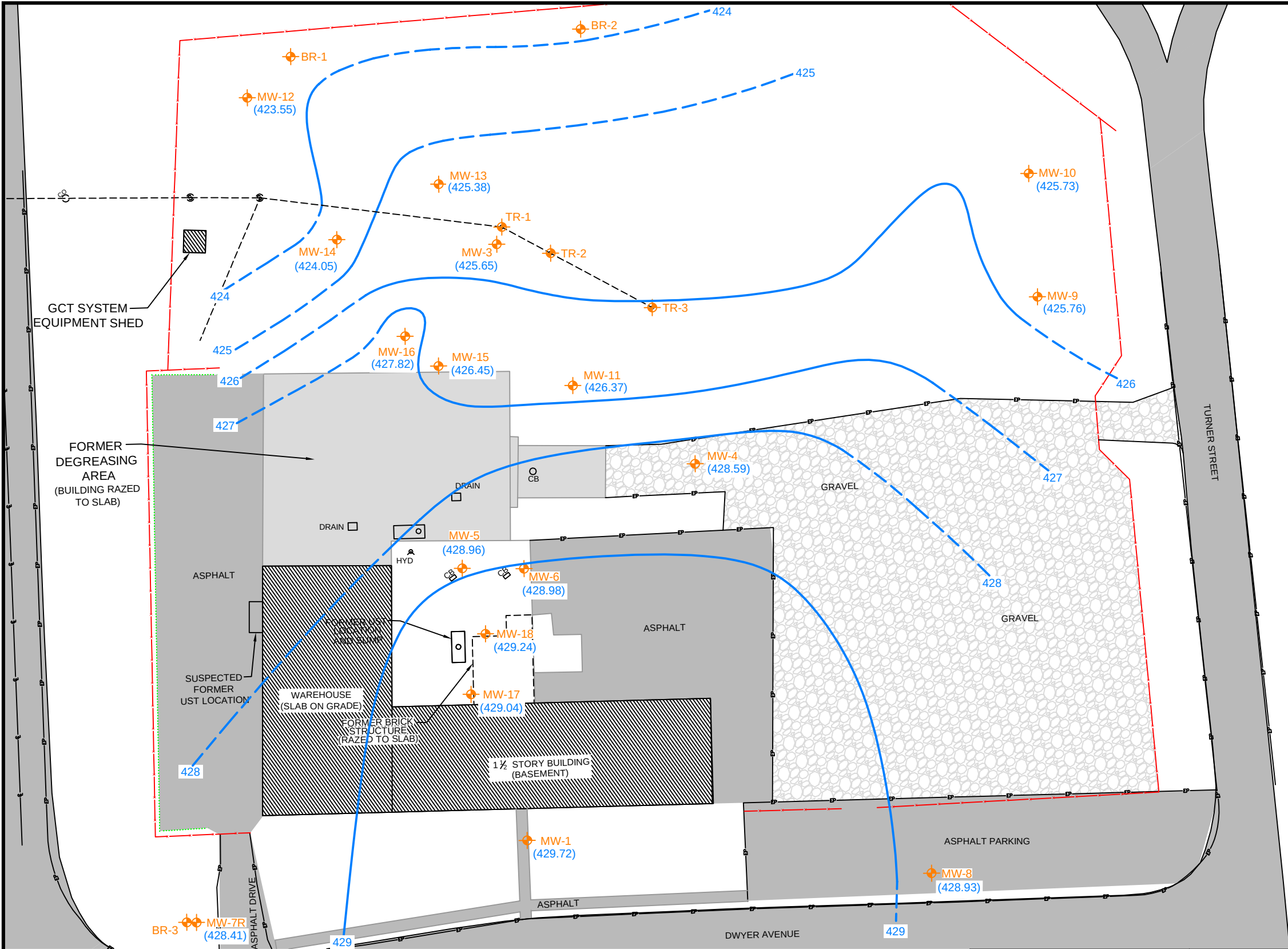
JUNE 2025

60632323

D:\NE Alloys\Figure 2\60135721_027 Site Plan_027.dwg User: carrie.szczepanski Jul 15, 2025 3:33pm



D:\NE Alloys\Figure 3\60632323_023 Shallow Monitoring Well Groundwater Contour Map_May 2025 Rev.dwg User: carlie.szczeponski Jul 17, 2025 - 3:18pm



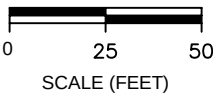
LEGEND

- MW-15 MONITORING WELL LOCATION (SURVEYED MAY 2015)
- FENCE
- BUILDING
- PAVEMENT
- GRAVEL
- [426.37] GROUNDWATER ELEVATION
- APPROXIMATE GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTES

- CONTOUR INTERVAL = 1 FOOT
- GROUNDWATER ELEVATION GAUGED MARCH 18-20, 2025

PLAN



PROJ. NO: 60632323
DATE: 07/17/2025
DRAWN: CLS
APPROVED: LMM



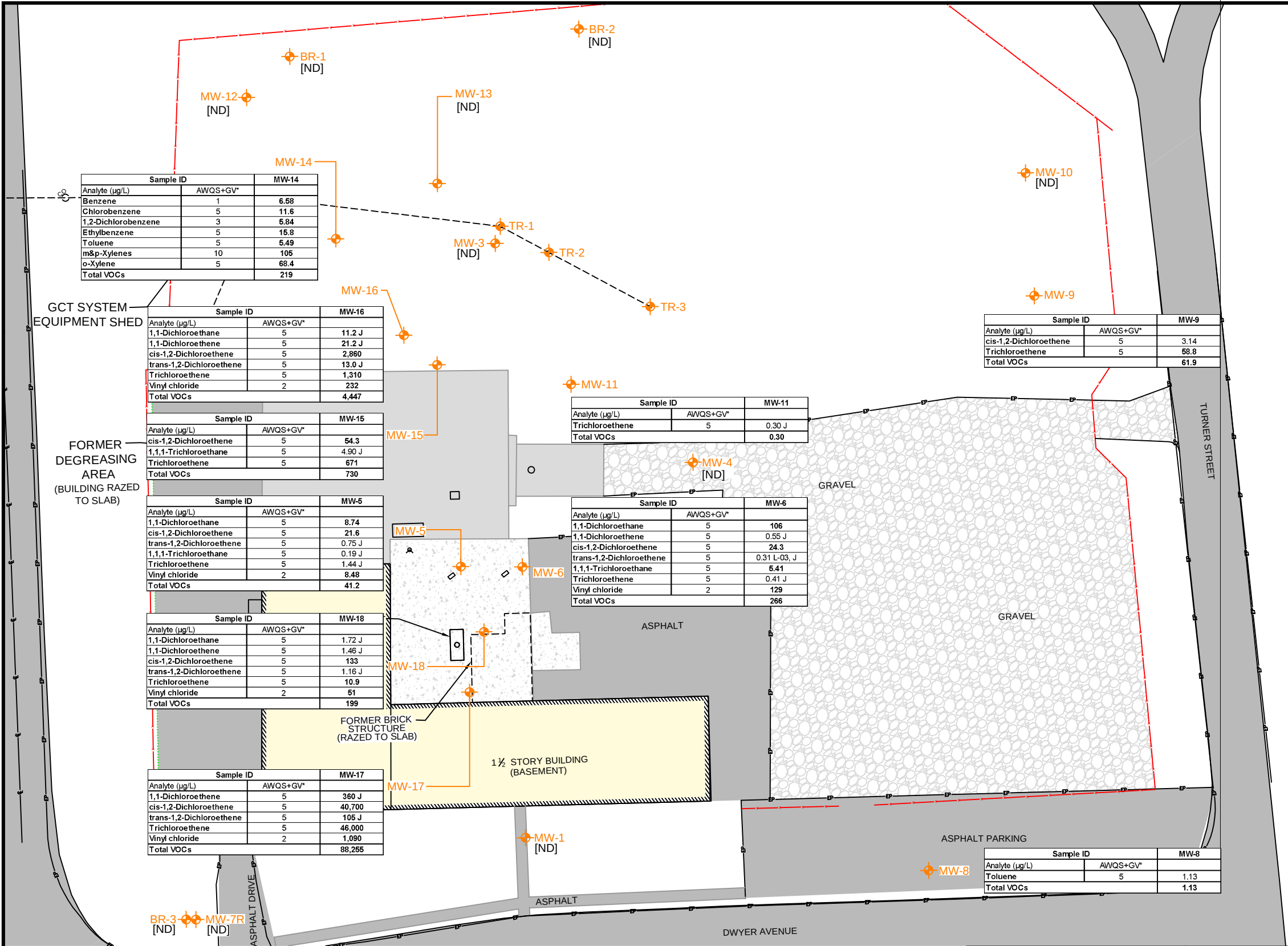
AECOM

SHEET TITLE: SHALLOW MONITORING WELL GROUNDWATER CONTOUR MAP
PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE
3

D:\NE Alloys\Figure 4\60632323_026 Total VOCs in GW_March 2025_Rev2.dwg User:carrie.szczepanski Jul 17, 2025 4:06pm



LEGEND

MW-15 MONITORING WELL LOCATION (SURVEYED MAY 2015)

FENCE

BUILDING

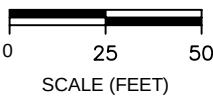
PAVEMENT

GRAVEL

NOTES

- [ND] = NO ANALYTES DETECTED GREATER THAN METHOD DETECTION LIMITS.
- BOLD FONT** INDICATES EXCEEDANCES OF AMBIENT WATER QUALITY STANDARDS AND/OR GUIDANCE VALUES.
- J = DETECTED BUT BELOW THE REPORTING LIMIT (LOWEST CALIBRATION STANDARD); THEREFORE, RESULT IS AN ESTIMATED CONCENTRATION.
- L-03 = LABORATORY FORTIFIED BLANK/LABORATORY CONTROL SAMPLE RECOVERY IS OUTSIDE OF CONTROL LIMITS. REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE LOW SIDE.
- AWQS+GV* = NEW YORK STATE AMBIENT QUALITY STANDARDS (TOGS 1.1.1) AND GUIDANCE VALUE.

PLAN



PROJ. NO: 60632323
DATE: 07/17/2025
DRAWN: CLS
APPROVED: LMM

AECOM

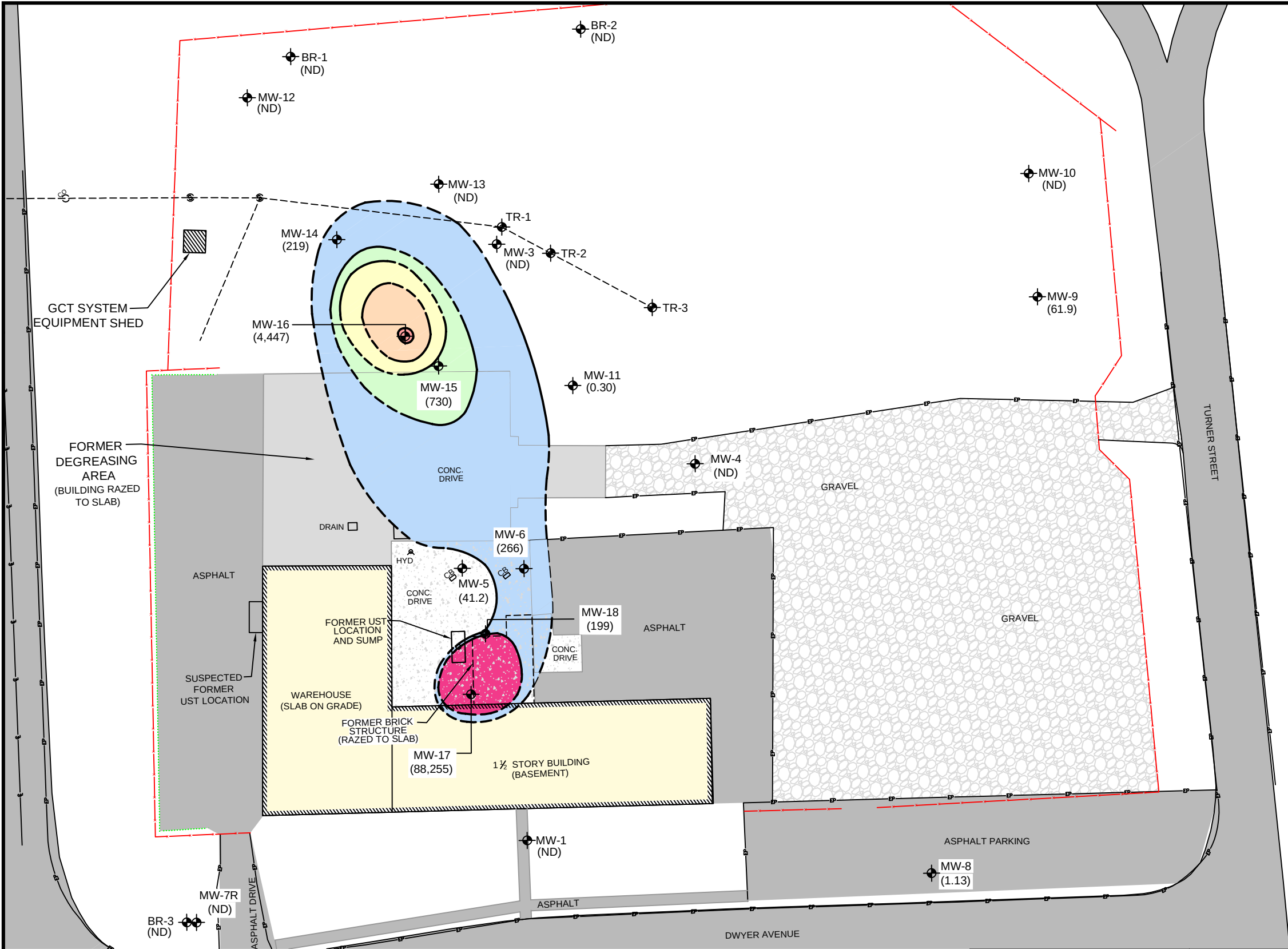
SHEET TITLE: TOTAL VOCs IN GROUNDWATER
MARCH 2025

PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE
4

D:\NE Alloya\Figure 5\60632323_027 VOC IsoConcentration_March 2025 Rev.dwg User: carrie.szczepanski Jul 17, 2025 - 3:59pm



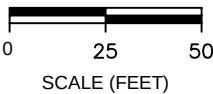
LEGEND

- MW-15 ● MONITORING WELL LOCATION (SURVEYED MAY 2015)
- FENCE
- BUILDING
- PAVEMENT
- GRAVEL
- VOC CONCENTRATION OF >200 µg/L - 500 µg/L
- VOC CONCENTRATION OF >500 µg/L - 1,000 µg/L
- VOC CONCENTRATION OF >1,000 µg/L - 2,000 µg/L
- VOC CONCENTRATION OF >2,000 µg/L - 4,000 µg/L
- VOC CONCENTRATION OF >4,000 µg/L - 8,000 µg/L
- VOC CONCENTRATION OF >8,000 µg/L
- 100 — TOTAL VOC ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- (24.70) GROUNDWATER TOTAL VOC CONCENTRATION
- ND NON DETECT

NOTES

1. RESULTS ARE PRESENTED IN MICROGRAMS PER LITER.

PLAN



SHEET TITLE: TOTAL VOC ISOCONCENTRATIONS
MARCH 2025

PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

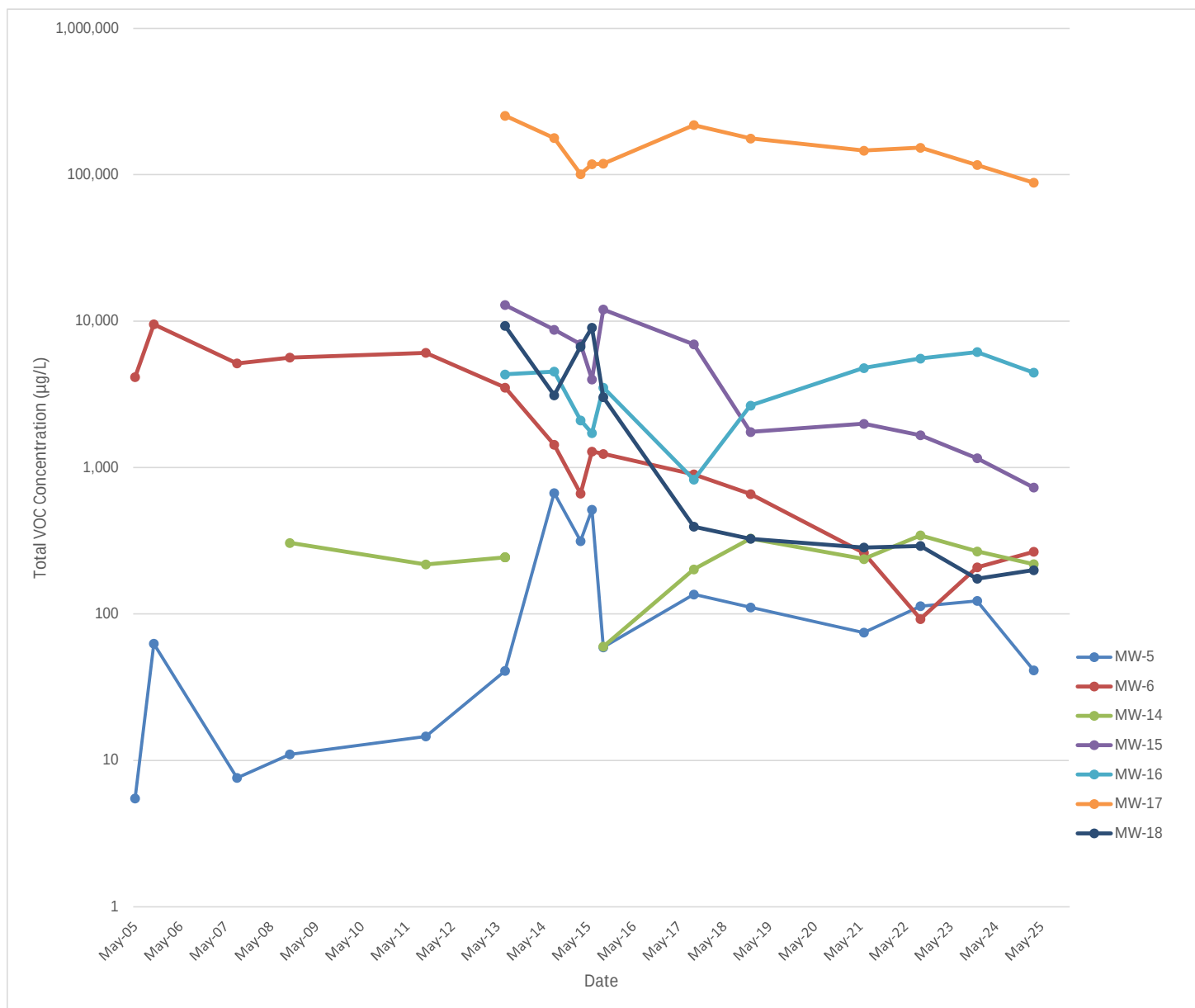
PROJ. NO: 60632323
DATE: 07/17/2025
DRAWN: CLS
APPROVED: LMM

AECOM

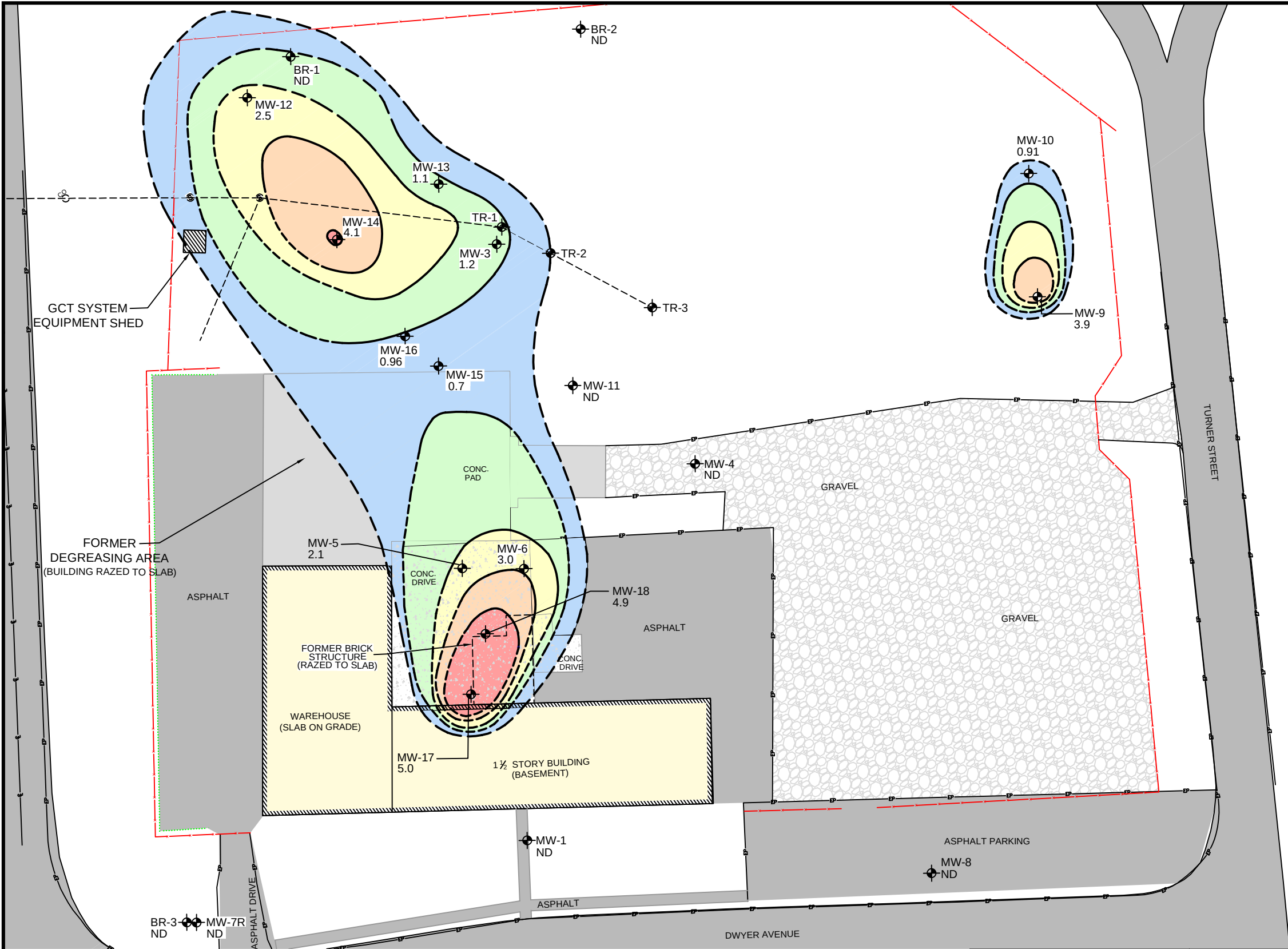
Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction
Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE
5

Figure 6
Total VOC Results by Well
March 2025



D:\NE Alloys\60632323_038 GW PFOA IsoConcentration Contour Map_March_2025 Rev5.dwg User:carrie.szczeponski Jun 25, 2025 12:14pm



LEGEND

- MW-15 MONITORING WELL LOCATION (SURVEYED MAY 2015)
- FENCE
- BUILDING
- PAVEMENT
- GRAVEL
- PFOA CONCENTRATION OF >0.0 ng/L - 1.0 ng/L
- PFOA CONCENTRATION OF >1.0 ng/L - 2.0 ng/L
- PFOA CONCENTRATION OF >2.0 ng/L - 3.0 ng/L
- PFOA CONCENTRATION OF >3.0 ng/L - 4.0 ng/L
- PFOA CONCENTRATION OF >4.0 ng/L
- ISOCONCENTRATION CONTOUR IN NANOGRAMS PER LITER (ng/L) (DASHED WHERE INFERRED)

NOTES

- PERFLUOROOCTANOIC ACID = PFOA
- BEDROCK WELLS BR-1, BR-2, AND BR-3 NOT USED IN CONSTRUCTION OF ISOCONTOURS.

PLAN



PROJ. NO: 60632323
DATE: 06/25/2025
DRAWN: CLS
APPROVED: LMM



AECOM

SHEET TITLE: GROUNDWATER PERFLUOROOCTANOIC ACID ISOCONCENTRATION CONTOUR MAP (MARCH 2025)

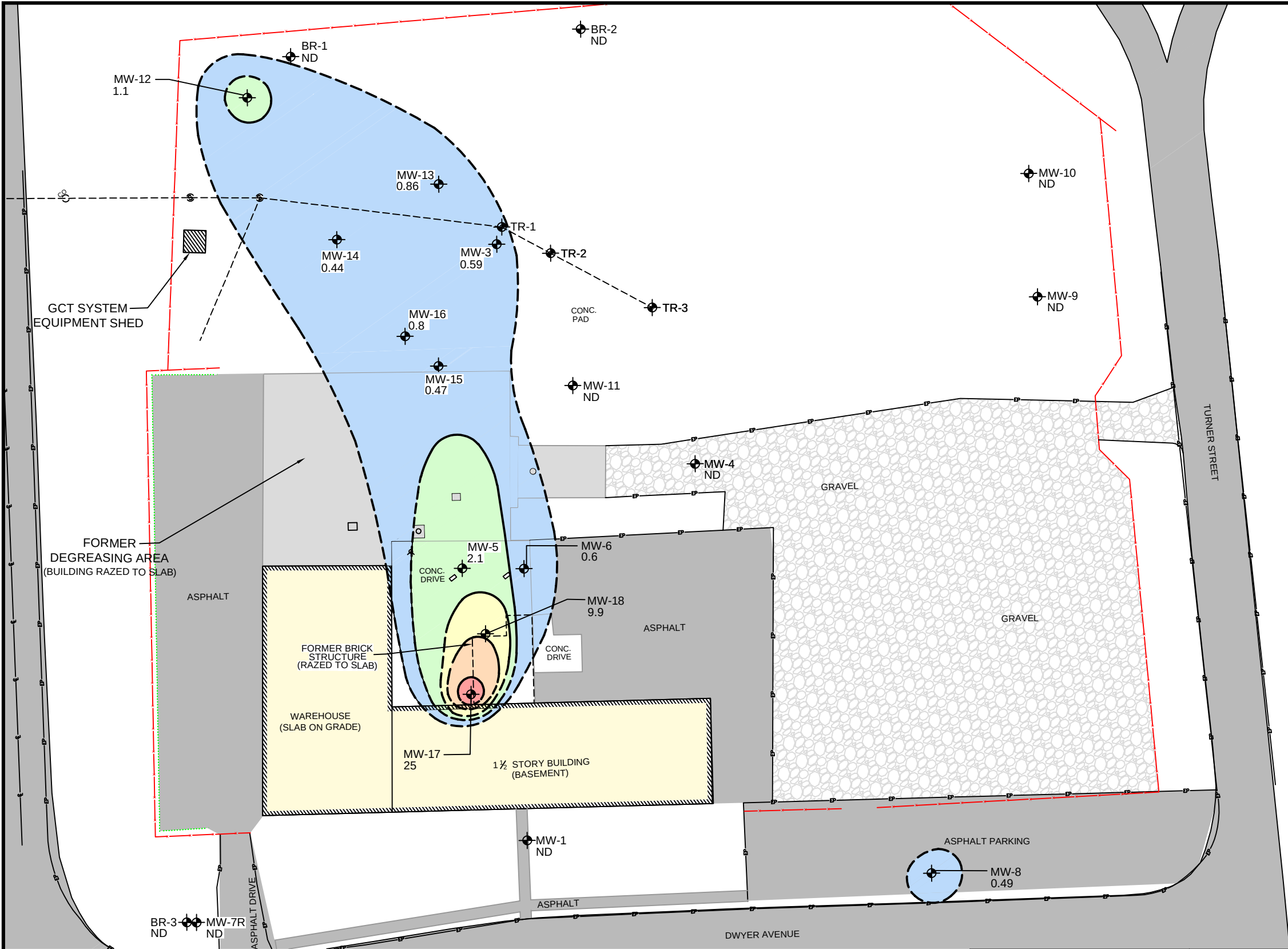
PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE

7

D:\NE Alloys\60632323_038 GW PFOS IsoConcentration Contour Map_March 2025_Rev1.dwg User: carrie.szczeponski Jun 20, 2025 4:33pm



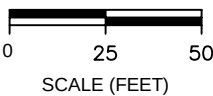
LEGEND

- MW-15 MONITORING WELL LOCATION (SURVEYED MAY 2015)
- FENCE
- BUILDING
- PAVEMENT
- GRAVEL
- PFOS CONCENTRATION OF >0.0 ng/L - 1.0 ng/L
- PFOS CONCENTRATION OF >1.0 ng/L - 5.0 ng/L
- PFOS CONCENTRATION OF >5.0 ng/L - 10.0 ng/L
- PFOS CONCENTRATION OF >10.0 ng/L - 20.0 ng/L
- PFOS CONCENTRATION OF >20.0 ng/L
- ISOCONCENTRATION CONTOUR IN NANOGRAMS PER LITER (ng/L) (DASHED WHERE INFERRED)

NOTES

- PERFLUOROOCTANE SULFONIC ACID = PFOS
- BEDROCK WELLS BR-1, BR-2, AND BR-3 NOT USED IN CONSTRUCTION OF ISOCONTOURS.

PLAN



PROJ. NO: 60632323
DATE: 06/20/2025
DRAWN: CLS
APPROVED: LMM



AECOM

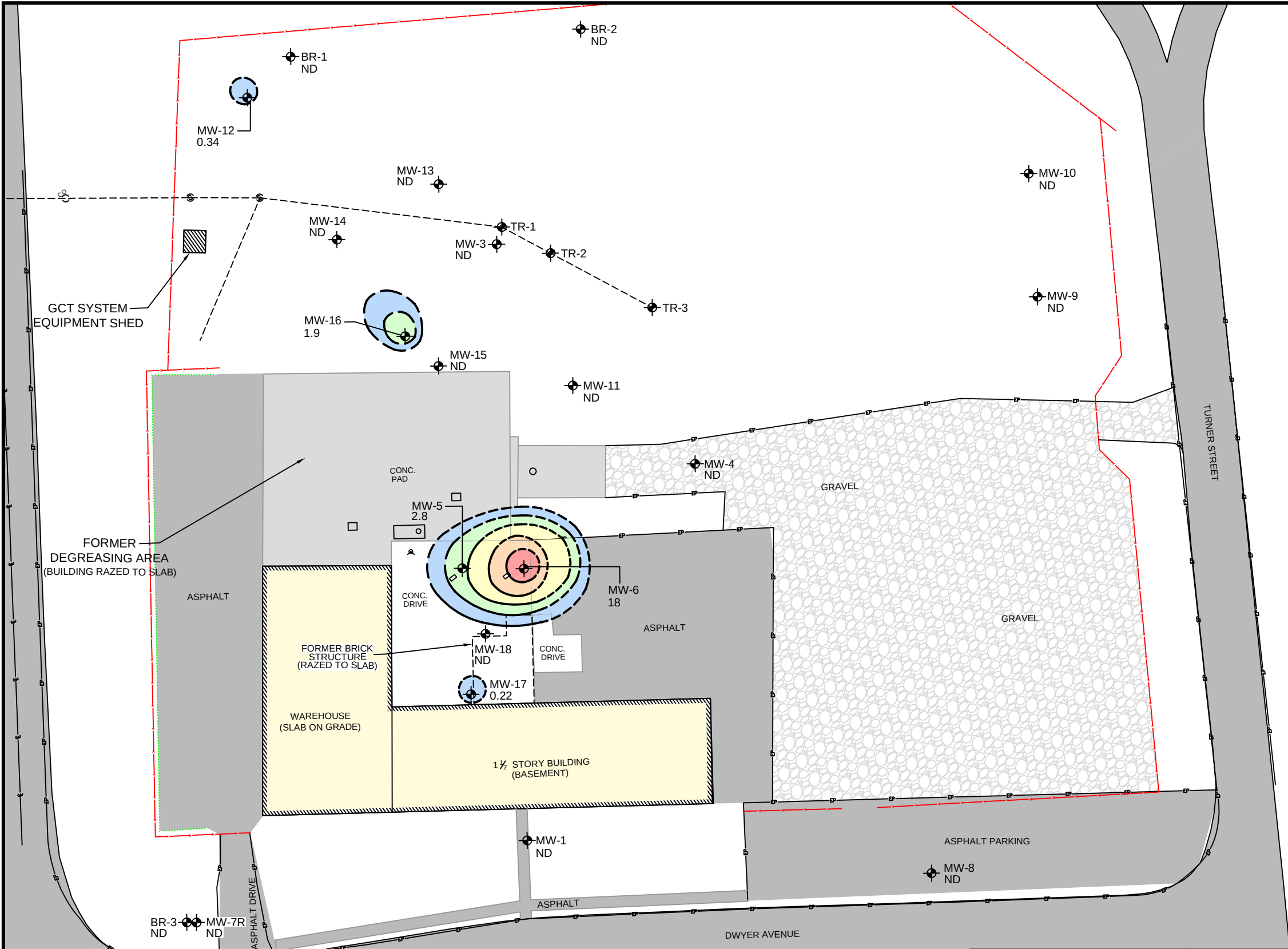
SHEET TITLE: GROUNDWATER PERFLUOROOCTANE SULFONIC ACID ISOCONCENTRATION CONTOUR MAP (MARCH 2025)

PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE
8

D:\NE Alloys\60632323_040 GW 1,4-Dioxane IsoConcentration Contour Map_March 2025 Rev2.dwg User:carrie.szczepanski Jun 20, 2025 - 4:43pm



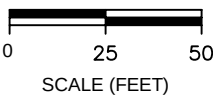
LEGEND

- MW-15 MONITORING WELL LOCATION (SURVEYED MAY 2015)
- FENCE
- BUILDING
- PAVEMENT
- GRAVEL
- 1,4 DIOXANE CONCENTRATION OF >0.0 µg/L - 1.0 µg/L
- 1,4 DIOXANE CONCENTRATION OF >1.0 µg/L - 5.0 µg/L
- 1,4 DIOXANE CONCENTRATION OF >5.0 µg/L - 10.0 µg/L
- 1,4 DIOXANE CONCENTRATION OF >10.0 µg/L - 15.0 µg/L
- 1,4 DIOXANE CONCENTRATION OF >15 µg/L
- ISOCONCENTRATION CONTOUR IN MICROGRAMS PER LITER (µg/L) (DASHED WHERE INFERRED)

NOTES

- BEDROCK WELLS BR-1, BR-2, AND BR-3 NOT USED IN CONSTRUCTION OF ISOCONTOURS.

PLAN



PROJ. NO: 60632323
DATE: 06/20/2025
DRAWN: CLS
APPROVED: LMM



SHEET TITLE: GROUNDWATER 1,4-DIOXANE ISOCONCENTRATION CONTOUR MAP (MARCH 2025)
PROJECT: NORTHEAST ALLOYS AND METALS SITE
NYSDEC SITE 633045
CITY OF UTICA
ONEIDA COUNTY, NEW YORK

Drawing Reference:
1) Drawing based on Bryant Associates Engineers • Surveyors • Construction Managers, 108 W. Jefferson St., Suite 400, Syracuse, NY; 2014.
2) A field survey performed by Earthtech/AECOM, October 7, 2008.
3) Surveyed Well Locations performed by AECOM, May 2015.

FIGURE
9

Tables

Table 1
Monitoring Well Details and Groundwater Elevations
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Monitoring Well ID	Coordinates		Well Details				March 2025	
	NAD83 Northing	NAD83 Easting	Well Diameter & Construction	Installation Date	Top of Casing Elevation	MPE (ft. amsl)	Depth-to-Groundwater (ft. below MPE)	Groundwater Elevation (ft. amsl)
BR-1	1129751.5343	1193769.2041	2" PVC	9/25/2008	434.27	433.98	11.92	422.06
BR-2	1129685.1948	1193884.0210	2" PVC	9/26/2008	432.20	432.05	7.88	424.17
BR-3	1129457.9890	1193502.1229	2" PVC	9/26/2008	439.05	438.74	7.65	431.09
MW-1	1129398.4727	1193649.9991	2" PVC	8/22/1989	438.84	438.75	9.03	429.72
MW-3	1129627.5648	1193796.1151	2" PVC	8/22/1989	433.94	433.85	8.20	425.65
MW-4	1129493.7668	1193811.7344	2" PVC	8/23/1989	430.75	430.49	1.90	428.59
MW-5	1129516.5034	1193697.7638	2" PVC	1/19/1993	432.11	431.54	2.58	428.96
MW-6	1129500.0868	1193720.5677	2" PVC	1/19/1993	432.08	431.96	2.98	428.98
MW-7R	1129455.3624	1193505.7054	2" PVC	6/12/2013	439.25	438.90	10.49	428.41
MW-8	1129279.5278	1193791.3563	2" PVC	2/12/1997	435.38	435.33	6.40	428.93
MW-9	1129465.2940	1193982.8086	2" PVC	8/7/1997	432.86	432.34	6.58	425.76
MW-10	1129513.3190	1194012.1169	2" PVC	8/9/1997	431.34	430.46	4.73	425.73
MW-11	1129555.0950	1193787.0401	2" PVC	4/5/1999	433.78	433.60	7.23	426.37
MW-12	1129747.7725	1193742.2722	2" PVC	4/6/1999	433.71	432.97	9.42	423.55
MW-13	1129665.1895	1193790.4688	2" PVC	8/26/2008	432.60	432.44	7.06	425.38
MW-14	1129671.4939	1193738.0248	2" PVC	8/27/2008	432.87	432.70	8.65	424.05
MW-15	1129597.7784	1193742.3768	2" PVC	6/13/2013	434.06	433.80	7.35	426.45
MW-16	1129617.6417	1193737.8144	2" PVC	6/11/2013	434.90	434.60	6.78	427.82
MW-17	1129467.4712	1193667.7635	2" PVC	6/13/2013	435.16	434.92	5.88	429.04
MW-18	1129486.0719	1193689.0916	2" PVC	6/12/2013	432.50	432.26	3.02	429.24
TR-1	1129632.6114	1193802.5344	8" PVC	1/1/2000	433.85	433.81	NM	NA
TR-2	1129610.0118	1193813.7348	8" PVC	1/1/2000	434.13	434.00	NM	NA
TR-3	1129563.0223	1193837.0730	8" PVC	1/1/2000	434.42	433.60	NM	NA

Notes:

BR - Bedrock Well

MW - Monitoring Well

TR - Trench Well

NAD83 - North American Datum of 1983

MPE - Measuring point elevation; measured at the top of the polyvinyl chloride

ft. - feet

amsl - above mean sea level

NM - Not measured

NA - Not available

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		BR-1											BR-2										
Sampling Date		Oct-08	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Sep-22	Dec-23	Mar-25	Oct-08	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	
Analyte (µg/L)	AWQS+GV*										Dup												
Acetone	50 (GV)	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
Acrolein	5	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	
Acrylonitrile	5	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromochloromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2-Butanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
tert-Butyl Alcohol	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Carbon disulfide	60 (GV)	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chloroethane	5	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
2-Chloroethyl vinyl ether	NA	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	U	NR	NR	U	NR	NR	
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chloromethane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Cyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibromochloromethane	50	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	
1,2-Dibromo-3-chloropropane	0.04	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dibromoethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
1,3-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	
1,4-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
Dichlorodifluoromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.37 J	U	U	U	U	
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Diethyl Ether	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	
2-Hexanone	50	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	U	NR	NR	NR	NR	
Isopropylbenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methyl Acetate	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylcyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-Methyl-2-pentanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	U	NR	NR	NR	NR	
Methyl tert-butyl Ether	10	U	NR	NR	NR	U	U	NR	U	U	U	U	U	NR	NR	NR	U	U	NR	U	U	U	
Styrene	5	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1.1	U	U	U	U	
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichlorotrifluoroethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
m&p-Xylenes	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
o-Xylene	5	U	U	U	U	U	U		U	U	U	U	U	U	U	U	U	U		U	U	U	U
Total VOCs:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.47	0	0	0	0	

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		BR-3										MW-1										
Sampling Date		Oct-08	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	May-05	Oct-05	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*																					
Acetone	50 (GV)	U	NR	NR	NR	U	NR	NR	NR	NR	NR	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR
Acrolein	5	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR
Acrylonitrile	5	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Bromoform	50	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
2-Butanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
tert-Butyl Alcohol	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon disulfide	60 (GV)	U	NR	NR	NR	U	NR	NR	NR	NR	NR	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U
2-Chloroethyl vinyl ether	NA	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR
Chloroform	7	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Chloromethane	NA	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	50	U	U	U	U	U	U	U	NR	U	U	NR	NR	U	U	U	U	U	U	NR	U	U
1,2-Dibromo-3-chloropropane	0.04	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dibromoethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	NR	NR	U	U	U	U	U	NR	U	U	U
1,3-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	NR	NR	U	U	U	U	U	NR	U	U	U
1,4-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	NR	NR	U	U	U	U	U	NR	U	U	U
Dichlorodifluoromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Diethyl Ether	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
2-Hexanone	50	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Isopropylbenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Acetate	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylcyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Methyl tert-butyl Ether	10	U	NR	NR	NR	U	U	NR	U	U	U	NR	NR	NR	NR	NR	U	U	NR	U	U	U
Styrene	5	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	NR	U	U	U
1,1,2-Trichlorotrifluoroethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m&p-Xylenes	10	U	U	U	U	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U	U	U
o-Xylene	5	U	U	U	U	U	U		U	U	U	NR	NR	U	U	U	U	U		U	U	U
Total VOCs:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-5															
Sampling Date		May-05	Oct-05	Aug-07	Oct-08	Oct-11	Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*																
Acetone	50 (GV)	U	U	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Acrolein	5	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Acrylonitrile	5	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
tert-Butyl Alcohol	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon disulfide	60 (GV)	U	U	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	NR	U	U	U
2-Chloroethyl vinyl ether	NA	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Chloroform	7	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NA	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dibromoethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,3-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,4-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
Dichlorodifluoromethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	5	U	8.3	1.0 J	U	1.7 J	4.7 JD	17 JD	12 JD	18 JD	2.5 J	7.4 D	19	8.6	24.4	23.2	8.74
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	0.59	0.34 J	0.99 J	0.35 J	U
cis-1,2-Dichloroethene	5	5.5	44	5.0	11.0	10.0	U	510 D	240 D	410 D	41	101 D	60	53	60.7	51.4	21.6
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	0.42 J	0.52 J	0.50 J	0.65 J	0.75 J
1,2-Dichloropropane	1	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Diethyl Ether	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
2-Hexanone	50	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Isopropylbenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Acetate	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylcyclohexane	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Methyl tert-butyl Ether	10	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U
Styrene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
1,2,4-Trichlorobenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
1,1,1-Trichloroethane	5	U	1.4 J	0.3 J	U	U	U	4.1 JD	U	U	U	U	0.42 J	0.63 J	2.21	1.62 J	0.19 J
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	5.1	0.3 J	U	2.9 J	34 D	U	8.1 JD	23 JD	8.2	16.2 D	9.6	1.6	24.1	3.52	1.44 J
Trichlorofluoromethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2	U	3.9 J	1.0 J	U	U	2.2 JD	140 D	55 D	65 D	7.6	11.2 D	21	10.0	U	42	8.48
m&p-Xylenes	10	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U		U	U	U
Total VOCs:		5.50	62.7	7.60	11.0	14.6	40.9	671	315	516	59.3	136	111	74.7	113	123	41.2

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-6															
Sampling Date		May-05	Oct-05	Aug-07	Oct-08	Oct-11	Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*																
Acetone	50 (GV)	U	U	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Acrolein	5	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Acrylonitrile	5	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Benzene	1	U	U	0.4 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
tert-Butyl Alcohol	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon disulfide	60 (GV)	U	U	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Carbon tetrachloride	5	25	U	U	U	U	U	U	NR	NR	U	U	U	U	U	U	U
Chlorobenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	5	40	36	25 JD	19	U	U	U	U	U	U	U	4.3	NR	U	U	U
2-Chloroethyl vinyl ether	NA	NR	NR	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Chloroform	7	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NA	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dibromoethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,3-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,4-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U
Dichlorodifluoromethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	5	U	950 D	450 D	490 JD	370 D	520 D	390 D	370 D	420 D	300 D	272 D	170	78	54.7	96.5	106
1,2-Dichloroethane	0.6	0.83 J	U	0.4 J	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	44	67	28 JD	33	38	U	U	U	U	U	U	U	0.70 J	U	0.23 J	0.55 J
cis-1,2-Dichloroethene	5	3,300 D	7,200 D	4,100 D	4,200 D	4,900 D	2,400 D	90 D	31 D	44 JD	94 D	119 D	79	42	31.2	15.4	24.3
trans-1,2-Dichloroethene	5	9.8	27	15	28	29	U	U	U	U	U	U	U	1.0	0.50 J	0.22 J	0.31 L-03, J
1,2-Dichloropropane	1	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Diethyl Ether	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
2-Hexanone	50	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Isopropylbenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Acetate	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylcyclohexane	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	5	U	U	0.3 J	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Methyl tert-butyl Ether	10	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	U	U	U
Styrene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	0.93 J	1.6 J	0.5 J	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	5	170 JD	250 D	82 D	37	15	84 JD	43 JD	33 D	34 JD	42 D	24.4 D	16	8.7	4.68	8.89	5.41
1,1,2-Trichloroethane	1	U	1.7 J	0.6 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	360 JD	640 D	210 D	120	130	U	U	U	U	U	3.0 JD	U	1.9	1.41 J	0.42 J	0.41 J
Trichlorofluoromethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2	190 JD	360 D	240 D	710 D	600 D	520 D	910 D	230 D	790 D	800 D	480 D	390	130	U	86.6	129
m&p-Xylenes	10	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U		U	U	U
Total VOCs:		4,141	9,533	5,152	5,637	6,082	3,524	1,433	664	1,288	1,236	898	659	262	92.5	208	266

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-7		MW-7R												MW-8											
Sampling Date		Oct-05	Aug-07	Jul-13	Aug-14	Mar-15	Jun-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	May-05	Oct-05	Aug-07	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*	Dup																									
Acetone	50 (GV)	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	
Acrolein	5	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	
Acrylonitrile	5	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromodichloromethane	50	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Bromoform	50	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Bromomethane	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
2-Butanone	NA	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	
tert-Butyl Alcohol	NA	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	
Carbon disulfide	60 (GV)	U	U	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chlorobenzene	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Chloroethane	5	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
2-Chloroethyl vinyl ether	NA	NR	NR	U	U	U	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	
Chloroform	7	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Chloromethane	NA	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibromochloromethane	50	NR	NR	U	U	U	U	U	U	U	U	U	NR	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	3	NR	NR	U	U	U	U	U	U	U	U	NR	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	
1,3-Dichlorobenzene	3	NR	NR	U	U	U	U	U	U	U	U	NR	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	
1,4-Dichlorobenzene	3	NR	NR	U	U	U	U	U	U	U	U	NR	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,2-Dichloroethene	5	U	U	3.6 J	U	U	U	U	U	U	U	U	U	U	U	U	1.2 J	0.8 J	U	U	U	U	U	U	U	U	
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloropropane	1	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
cis-1,3-Dichloropropene	0.4	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
trans-1,3-Dichloropropene	0.4	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Diethyl Ether	NA	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	
Ethylbenzene	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	
2-Hexanone	50	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	
Styrene	5	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Tetrachloroethene	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1.13	
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichloroethene	5	U	U	6.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichlorofluoromethane	5	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
m&p-Xylenes	10	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	
o-Xylene	5	NR	NR	U	U	U	U	U	U	U	U		U	U	U	NR	NR	NR	U	U	U	U	U		U	U	U
Total VOCs:		0	0	10.2	0	0	0	0	0	0	0	0	0	0	0	0	1.20	0.80	0	0	0	0	0	0	0	1.13	

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-9																
Sampling Date		May-05	Oct-05	Aug-07	Oct-11	Jul-13	Aug-14	Aug-14	Mar-15	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*	Dup								Dup								
Acetone	50 (GV)	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	3.3 J	NR	NR	NR	NR	NR
Acrolein	5	NR	NR	NR	U	U	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Acrylonitrile	5	NR	NR	NR	U	U	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.28 J	0.21 J	U
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
tert-Butyl Alcohol	NA	19	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon disulfide	60 (GV)	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	NR	U	1.13 J	U
2-Chloroethyl vinyl ether	NA	NR	NR	NR	U	U	U	U	U	U	U	U	NR	NR	U	NR	NR	NR
Chloroform	7	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NA	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	NR	U	U
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,3-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U
1,4-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	0.3 J	0.3 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	5	32	34 D	21 D	34	16	18	18	3.1 J	2.9 J	24	7.5	7.0	13	9.4	11	5.42	3.14
trans-1,2-Dichloroethene	5	4.0	3.1	8.8	3.3 J	U	1.3 J	1.1 J	U	U	1.6 J	U	0.8 J	0.88	0.71 J	0.72 J	0.48 J	U
1,2-Dichloropropane	1	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Diethyl Ether	NA	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
2-Hexanone	50	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	5	U	0.4 J	0.3 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U
Styrene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
1,1,1,2-Tetrachloroethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	6.6	2.2	7.0	21	82	14	14	2.8 J	3.0 J	28	2.0 J	3.4	58	14	13.2	6.72	58.8
Trichlorofluoromethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2	10.0	15	8.5	4.8 J	1.4 J	8.4	9.2	1.5 J	1.4 J	3.2 J	3.6 J	3.8	2.0	1.3	U	1.31 J	U
m&p-Xylenes	10	NR	NR	NR	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U
o-Xylene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		U	U	U
Total VOCs:		71.9	55	45.6	63.1	99.4	41.7	42.3	7.4	7.3	56.8	13.1	18.3	73.9	25.4	25.2	15.3	61.9

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-10														MW-11													
Sampling Date		May-05	Oct-05	Aug-07	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	Mar-25	May-05	Oct-05	Aug-07	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Dec-23	Mar-25		
Analyte (µg/L)	AWQS+GV*	DUP														DUP													
Acetone	50 (GV)	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
Acrolein	5	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR		
Acrylonitrile	5	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR		
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Bromodichloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Bromoform	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Bromomethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
2-Butanone	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
tert-Butyl Alcohol	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Carbon disulfide	60 (GV)	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	0.3 J	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Chlorobenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Chloroethane	5	U	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U		
2-Chloroethyl vinyl ether	NA	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR		
Chloroform	7	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Chloromethane	NA	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Dibromochloromethane	50	NR	NR	NR	U	U	U	U	U	U	NR	U	U	U	NR	NR	NR	U	U	U	U	U	U	NR	U	U	U		
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U		
1,3-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U		
1,4-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U		
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
cis-1,2-Dichloroethene	5	0.78 J	U	U	U	U	U	U	U	U	U	U	U	U	0.3 J	U	0.4 J	U	U	U	U	0.46 J	U	U	U	U	U		
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-Dichloropropane	1	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
cis-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
trans-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Diethyl Ether	NA	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Ethylbenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR		
2-Hexanone	50	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U	U	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U	U		
Styrene	5	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR		
1,1,2,2-Tetrachloroethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Tetrachloroethene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Trichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	1.4	1.3	0.9 J	0.97 J	1.5 J	U	1.4	1.9	0.60 J	0.41 J	0.40 J	0.38 J	0.30 J		
Trichlorofluoromethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	NR	NR	NR	U	U	U	U	U	U	U	U	U	U		
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR																					

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-12													MW-13									
Sampling Date		May-05	Oct-05	Aug-07	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	Oct-08	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	
Analyte (µg/L)	AWQS+GV*																							
Acetone	50 (GV)	U	U	5.7	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	1.6 J	NR	NR	NR	NR	NR	
Acrolein	5	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	
Acrylonitrile	5	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	
Benzene	1	0.8 J	1.0	1.0	1.1 J	U	U	0.9 J	1.0	U	U	0.23 J	U	U	0.61 J	U	U	U	U	U	U	U	U	
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromodichloromethane	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromoform	50	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromomethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2-Butanone	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
tert-Butyl Alcohol	NA	16	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Carbon disulfide	60 (GV)	U	U	U	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chlorobenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	1.7 J	U	U	0.5 J	0.29 J	U	U	U	U	
Chloroethane	5	U	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U	
2-Chloroethyl vinyl ether	NA	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	NR	U	U	U	NR	NR	U	NR	NR	NR	
Chloroform	7	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chloromethane	NA	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibromochloromethane	50	NR	NR	NR	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	NR	U	U	
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	2.7 J	U	2 J	1.1	0.45 J	NR	U	U	U	
1,3-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U	
1,4-Dichlorobenzene	3	NR	NR	NR	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	NR	U	U	U	
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-Dichloropropane	1	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,3-Dichloropropene	0.4	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Diethyl Ether	NA	4.1	5.6	5.2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Ethylbenzene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	
2-Hexanone	50	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylene chloride	5	U	0.5 JB	0.3 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	NR	U	U	NR	U	U	U	U	NR	NR	NR	U	U	NR	U	U	U	
Styrene	5	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	U	NR	NR	NR	U	NR	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Tetrachloroethene	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichlorofluoromethane	5	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Vinyl chloride	2	1.0	0.5 J	0.3 J	0.59 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
m&p-Xylenes	10	NR	NR	NR	U	U	U	U	U	U	U	U	U	U	3.2 J	U	U	U	U	U	U	U	U	
o-Xylene	5	NR	NR	NR	U	U	U	U	U		U	U	U	U	0.95 J	U	U	U	U		U	U	U	U
Total VOCs:		21.9	7.6	12.5	1.69	0	0	0.90	1.0	0	0	0.23	0	0	9.16	0	2.0	3.2	0.74	0	0	0	0	

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-14										MW-15											
Sampling Date		Oct-08	Oct-11	Jul-13	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	
Analyte (µg/L)	AWQS+GV*																						
Acetone	50 (GV)	21	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
Acrolein	5	NR	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR	
Acrylonitrile	5	NR	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR	
Benzene	1	7.5	6.6	8.0	2.0 J	6.2 D	12	6.2	9.44	8.75	6.58	U	U	U	U	U	U	U	U	U	U	U	
Bromochloromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2-Butanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
tert-Butyl Alcohol	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Carbon disulfide	60 (GV)	U	NR	NR	NR	3.6 JD	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Chlorobenzene	5	U	3.2 J	13	U	6.0 D	6.7 J	17	20.5	14.8	11.6	U	U	U	U	U	U	U	U	U	U	U	
Chloroethane	5	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
2-Chloroethyl vinyl ether	NA	NR	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR	
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.3 J	U	U	U	U	U	
Chloromethane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Cyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Dibromochloromethane	50	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	
1,2-Dibromo-3-chloropropane	0.04	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dibromoethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2-Dichlorobenzene	3	6.1	4.1 J	7.0	1.4 J	6.4 D	11	NR	7.84 J	7.2 J	5.84	U	U	U	U	U	U	U	NR	U	U	U	
1,3-Dichlorobenzene	3	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	
1,4-Dichlorobenzene	3	U	U	U	U	U	U	NR	0.60 J	U	U	U	U	U	U	U	U	U	NR	U	U	U	
Dichlorodifluoromethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	12.9	4.4	5.4	3.7 J	2.2 J	U	
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	40 J	20.8	4.8	6.8	U	2.05 J	U	
cis-1,2-Dichloroethene	5	U	U	U	U	U	U	U	1.96 J	U	U	5,900 D	3,100 D	2,300 D	1,200 D	4,400 D	1,640 D	480	870	446	460	54.3	
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	19.2	3.5	5.3	2.2 J	1.1 J	U	
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Diethyl Ether	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Ethylbenzene	5	22	16	21	4.4 J	12.2 D	25	19	27.1	19.6	15.8	U	U	U	U	U	U	U	U	U	U	U	
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	
2-Hexanone	50	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
Isopropylbenzene	5	13	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methyl Acetate	NA	22	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylcyclohexane	NA	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-Methyl-2-pentanone	NA	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
Methyl tert-butyl Ether	10	U	NR	NR	NR	U	U	NR	U	U	U	NR	NR	NR	NR	NR	U	U	NR	U	U	U	
Styrene	5	U	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.80 J	U	U	U	U	U	
Toluene	5	17	9.8	14	2.2 J	6.0 D	13	5.0	8.76	7.05	5.49	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,2,4-Trichlorobenzene	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	NR	U	3.8	5.8	2.6 J	6.4 J	5.0 J	4.9 J	
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Trichloroethene	5	U	U	U	U	U	U	U	2.40 J	U	U	6,800 D	5,500 D	4,600 D	2,800 D	7,300 D	5,090 D	1,200	1,000	1,140	639	671	
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-Trichlorotrifluoroethane	5	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	210 D	140 JD	72 JD	U	230 JD	139 D	56	100	57.7	48.6	U	
m&p-Xylenes	10	110	110	130	32	102 D	160	190	175	138	105	U	U	U	U	U	U	U	U	U	U	U	
o-Xylene	5	87	68	51	18	59.6 D	100		90.6	72.4	68.4	U	U	U	U	U	U	U		U	U	U	U
Total VOCs:		306	217.7	244	60	202	328	237	344	268	219	12,910	8,740	6,972	4,000	11,970	6,927	1,755	1,990	1,656	1,158	730	

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-16												MW-17											
Sampling Date		Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25	Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25		
Analyte (µg/L)	AWQS+GV*																								
Acetone	50 (GV)	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
Acrolein	5	U	U	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR		
Acrylonitrile	5	U	U	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR		
Benzene	1	U	U	U	U	U	U	U	U	15 J	U	U	U	U	U	U	U	U	U	U	U	U	U		
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
2-Butanone	NA	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
tert-Butyl Alcohol	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Carbon disulfide	60 (GV)	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Chloroethane	5	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U		
2-Chloroethyl vinyl ether	NA	U	U	U	U	U	NR	NR	U	NR	NR	NR	U	U	U	U	U	NR	NR	U	NR	NR	NR		
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Chloromethane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Dibromochloromethane	50	U	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U		
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U		
1,3-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U		
1,4-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U	U	U	U	U	U	U	U	NR	U	U	U		
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,1-Dichloroethane	5	U	U	12 JD	9.1 JD	U	6.6 JD	7.9 J	14	12 J	16 J	11.2 J	U	26,000 D	U	U	U	U	U	U	U	U	U		
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1-Dichloroethene	5	U	U	U	6.4 JD	13 JD	U	11	26	26 J	26.5 J	21.2 J	U	U	U	430 JD	U	830 D	620	520	500 J	420 J	360 J		
cis-1,2-Dichloroethene	5	3,000 D	4,300 D	1,500 D	1,300 D	2,200 D	430 D	1,400	3,500	3,340	3,780	2,860	120,000 D	100,000 D	64,000 D	72,000 D	70,000 D	115,000 D	85,000	73,000	74,400	55,100	40,700		
trans-1,2-Dichloroethene	5	U	U	U	U	U	U	U	17	13 J	13 J	13 J	U	U	U	U	U	235 JD	150 J	180 J	U	U	105 J		
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Diethyl Ether	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR		
2-Hexanone	50	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	U	U	NR	U	U	U	NR	NR	NR	NR	NR	U	U	NR	U	U	U		
Styrene	5	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR		
1,1,2,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Toluene	5	U	U	U	U	U	U	U	U	30 J	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	5.8 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Trichloroethene	5	1,200 D	32 JD	100 D	65 D	980 D	213 D	1,100	950	1,760	1,950	1310	130,000 D	50,000 D	34,000 D	43,000 D	47,000 D	96,700 D	88,000	70,000	75,100	59,200	46,000		
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Vinyl chloride	2	130 D	190 JD	490 D	340 D	330 D	179 D	130	270	322	360	232	3,300 JD	1,800 JD	2,500 JD	2,800 JD	2,300 JD	5,030 D	2,800	2,000	2,740	1,670 J	1,090		
m&p-Xylenes	10	U	U	U	U	U	U	U	U	29 J	U	U	U	U	U	U	U	U	U	U	U	U	U		
o-Xylene	5	U	U	U	U	U	U	U		13 J	U	U	U	U	U	U	U	U	U		U	U	U	U	
Total VOCs:		4,330	4,522	2,102	1,721	3,523	829	2,649	4,783	5,560	6,146	4,447	253,300	177,800	100,500	118,230	119,300	217,795	176,570	145,700	152,740	116,390	88,255		

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 2
Groundwater Analytical Results - Volatile Organic Compounds
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Sample ID		MW-18										
Sampling Date		Jul-13	Aug-14	Mar-15	Jun-15	Sep-15	Sep-17	Dec-18	Jun-21	Sep-22	Dec-23	Mar-25
Analyte (µg/L)	AWQS+GV*											
Acetone	50 (GV)	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Acrolein	5	U	U	U	U	U	NR	NR	U	NR	NR	NR
Acrylonitrile	5	U	U	U	U	U	NR	NR	U	NR	NR	NR
Benzene	1	U	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromodichloromethane	50	U	U	U	U	U	U	U	U	U	U	U
Bromoform	50	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5	U	U	U	U	U	U	U	U	U	U	U
2-Butanone	NA	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
tert-Butyl Alcohol	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon disulfide	60 (GV)	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	5	U	U	U	U	U	U	U	NR	U	U	U
2-Chloroethyl vinyl ether	NA	U	U	U	U	U	NR	NR	U	NR	NR	NR
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	NA	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dibromochloromethane	50	U	U	U	U	U	U	U	U	NR	U	U
1,2-Dibromo-3-chloropropane	0.04	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dibromoethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U
1,3-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U
1,4-Dichlorobenzene	3	U	U	U	U	U	U	U	NR	U	U	U
Dichlorodifluoromethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-Dichloroethane	5	U	U	U	U	U	4.0 JD	3.1	3.0	3.08 J	2.5 J	1.72 J
1,2-Dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5	U	U	U	U	8 JD	U	0.90	1.1	1.1 J	0.38 J	1.46 J
cis-1,2-Dichloroethene	5	7,700 D	2,700 D	3,800 D	5,700 D	1,600 D	118 D	150	180	142	114	133
trans-1,2-Dichloroethene	5	U	16 JD	U	37 JD	12 JD	U	1.2	1.1	0.82 J	0.48 J	1.16 J
1,2-Dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.4	U	U	U	U	U	U	U	U	U	U	U
Diethyl Ether	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U
Ethyl Chloride	NA	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR
2-Hexanone	50	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Isopropylbenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Acetate	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylcyclohexane	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
Methyl tert-butyl Ether	10	NR	NR	NR	NR	NR	U	U	NR	U	U	U
Styrene	5	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR
1,1,1,2-Tetrachloroethane	5	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	5	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trichlorobenzene	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-Trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	790 D	U	U	U	U	U	0.55	2.4	4.34	2.96 J	10.9
Trichlorofluoromethane	5	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Trichlorotrifluoroethane	5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Vinyl chloride	2	790 D	400 D	2,900 D	3,300 D	1,400 D	277 D	170	97	140	53.9	51
m&p-Xylenes	10	U	U	U	U	U	U	U	U	U	U	U
o-Xylene	5	U	U	U	U	U	U	U		U	U	U
Total VOCs:		9,280	3,116	6,700	9,037	3,020	399	326	285	291	174	199

Notes:
All data presented in micrograms per liter (µg/L).
Volatile Organic Compounds (VOCs) analysis by EPA Method 624.
AWQS - New York State Ambient Water Quality Standards (TOGs 1.1.1); GV - guidance value.
U - Analyte included in the analysis, but not detected at or above the Method Detection Limit (MDL).
J - Detected above the MDL but below the Reporting Limit (RL); therefore, result is an estimated concentration.
D - Data reported from a dilution.
NA - No standard or guidance value exists for the analyte.
NR - Not reported.
L-03 - Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
BOLD font indicates compound concentrations detected at or above the detection limit.
BOLD font in shaded cell indicates exceedances of AWQS or GV.
Columns separated with a double line indicate pre- and post-sodium injection sampling events.

Table 3
Groundwater Analytical Results – Emerging Contaminants
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID																			
		BR-1						BR-2				BR-3				MW-1					
		6/23/2021	6/23/2021	9/27/2022	9/27/2022	12/14/2023	3/19/2025	6/23/2021	9/29/2022	12/12/2023	3/19/2025	6/21/2021	9/28/2022	12/12/2023	3/19/2025	12/12/2018	6/22/2021	9/29/2022	12/11/2023	3/19/2025	
Semivolatile Organic Compounds (µg/L)			DUP		DUP																
1,4-Dioxane	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Fluorinated Alkyl Substances (ng/L)																					
Perfluorooctanoic acid (PFOA)	6.7	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorooctanesulfonic acid (PFOS)	2.7	0.60 J	ND	ND	ND	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorobutanoic acid (PFBA)	--	7.2	ND	ND	ND	ND	ND	2.1 J	0.91 J	2.8 J	4.0 J	ND	ND	ND	ND	ND	1.2 J	ND	1.4 J	0.89 J	
Perfluoropentanoic acid (PFPeA)	--	0.76 J	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND	ND	2.5 J	ND	ND	0.38 J	ND	
Perfluorohexanoic acid (PFHxA)	--	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoroheptanoic acid (PFHpA)	--	0.86 J	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorononanoic acid (PFNA)	--	0.37 J	ND	ND	ND	ND	ND	0.28 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorodecanoic acid (PFDA)	--	0.88 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorotridecanoic acid (PFTrIA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorobutanesulfonic acid (PFBS)	--	2.8	ND	ND	ND	ND	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	0.54 J	ND	1.0 J	
Perfluorohexanesulfonic acid (PFHxS)	--	0.38 J	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorotridecanoic acid (PFTrDA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluorooctanesulfonamide (PFOSA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	12	2.6 J	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
9Cl-PF3ONS (F53B Minor)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
11Cl-PF3OUdS (F53B Major)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
3-Perfluoropropyl propanoic acid (FPPrPA)(3:3FTCA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND	

Notes:
¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Guidance Value (AWQ GV)
µg/L - micrograms per liter
ng/L - nanograms per liter
ND - Not detected at the reporting limit
NS - Not sampled
Detected concentrations are in bold font.
Results greater than or equal to the NYSDEC AWQ GV are shaded in gray.
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.
NJ - The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value was the estimated concentration in the sample.
PF-23 - Qualifier ion ratio <50% of associated calibration. Detection is suspect.
S-29 - Extracted internal standard is outside of control limits.

Table 3
Groundwater Analytical Results – Emerging Contaminants
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID																	
		MW-3				MW-4				MW-5						MW-6			
		6/22/2021	9/27/2022	12/14/2023	3/18/2025	6/23/2021	9/28/2022	12/11/2023	3/18/2025	12/12/2018	12/12/2018	6/23/2021	9/29/2022	12/12/2023	3/18/2025	6/23/2021	9/29/2022	12/12/2023	3/18/2025
Semivolatile Organic Compounds (µg/L)											DUP								
1,4-Dioxane	0.35	ND	0.12 J	ND	ND	ND	ND	ND	ND	4.0	4.0	1.1	5.4	4.6	2.8	6.6	9.3	20	18
Fluorinated Alkyl Substances (ng/L)																			
Perfluorooctanoic acid (PFOA)	6.7	ND	1.8 J	ND	1.2 J	2.8	0.81 J	ND	ND	9.6 J	94 J	2.1	5.0	2.7	2.1	5.5	6.2	2.6	3.0
Perfluorooctanesulfonic acid (PFOS)	2.7	0.40 J	ND	0.56 J	0.59 J	0.77 J	1.6 J	ND	ND	10 J	21 J	0.50 J	5.8	2.8	2.1	1.3 J	2.8	0.41 J	0.60 J
Perfluorobutanoic acid (PFBA)	--	1.2 J	1.3 J	ND	17	7.6	ND	ND	2.6 J	ND	12 J	1.7 J	1.1 J	2.8 J	24	3.7 J	2.1 J	2.8 J	20
Perfluoropentanoic acid (PFPeA)	--	ND	ND	ND	ND	2.4	ND	ND	ND	ND	47 J	1.1 J	0.57 J	ND	ND	1.2 J	0.85 J	ND	ND
Perfluorohexanoic acid (PFHxA)	--	ND	ND	ND	ND	1.9 J	ND	ND	ND	ND	45 J	ND	0.51 J	0.86 NJ	0.62 J	1.5 J	1.0 J	0.68 J	0.81 PF-23, J
Perfluoroheptanoic acid (PFHpA)	--	0.26 J	2.0 J	ND	0.41 J	2.0	ND	ND	ND	ND	18 J	0.29 J	0.83 J	0.32 J	0.34 J	0.91 J	1.0 J	0.38 J	0.41 J
Perfluorononanoic acid (PFNA)	--	ND	0.59 J	ND	ND	0.30 J	ND	ND	ND	ND	4.1 J	ND	0.85 J	0.26 J	ND	ND	0.37 J	ND	ND
Perfluorodecanoic acid (PFDA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	1.6 J
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.51 J
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J
Perfluorotridecanoic acid (PFTriA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J
Perfluorobutanesulfonic acid (PFBS)	--	0.32 J	ND	ND	ND	1.2 J	ND	0.28 J	ND	3.1 J	13 J	0.38 J	1.6 J	ND	ND	0.85 J	4.0 J	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	--	0.30 J	ND	ND	ND	0.66 J	ND	ND	ND	2.7 J	10 J	0.47 J	1.2 J	0.79 J	ND	0.52 J	0.64 J	0.35 J	ND
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTDA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorooctanesulfonamide (PFOSA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	ND	ND	ND	ND	ND	ND	ND	ND	6.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
9CI-PF3ONS (F53B Minor)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
11CI-PF3OUdS (F53B Major)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
3-Perfluoropropyl propanoic acid (FPPrPA)(3:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	NS	ND	ND	NS	NS	ND	ND

Notes:

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PF-23 - Qualifier ion ratio <50% of associated calibration. Detection is suspect.
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Table 3
Groundwater Analytical Results – Emerging Contaminants
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID																
		MW-7R				MW-8				MW-9				MW-10				
		6/22/2021	9/28/2022	12/12/2023	3/19/2025	6/22/2021	9/29/2022	12/11/2023	3/20/2025	6/22/2021	9/28/2022	12/12/2023	3/18/2025	6/22/2021	9/28/2022	12/11/2023	3/18/2025	3/18/2025
Semivolatile Organic Compounds (µg/L)																		DUP
1,4-Dioxane	0.35	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	0.26	ND	ND	ND
Fluorinated Alkyl Substances (ng/L)																		
Perfluorooctanoic acid (PFOA)	6.7	0.55 J	1.0 J	ND	ND	0.58 J	ND	ND	ND	1.0 J	2.5	1.4	3.9	1.3 J	1.4 J	ND	0.91 J	0.57 J
Perfluorooctanesulfonic acid (PFOS)	2.7	1.0 J	2.3	1.0	ND	0.97 J	ND	ND	0.49 J	0.58 J	ND	ND	ND	0.87 J	ND	ND	ND	ND
Perfluorobutanoic acid (PFBA)	--	1.7 J	1.2 J	2.4 J	6.0 J	3.7 J	ND	ND	7.9	2.5 J	ND	1.9 J	13	1.3 J	8.2 J	ND	14	14
Perfluoropentanoic acid (PFPeA)	--	ND	0.40 J	0.62 J	0.92 J	0.54 J	ND	ND	ND	ND	ND	ND	6.2	0.99 J	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	--	ND	ND	0.34 J	0.34 J	0.75 J	ND	ND	ND	ND	0.57 J	ND	1.6 J	0.83 J	ND	ND	0.39 J	0.33 J
Perfluoroheptanoic acid (PFHpA)	--	0.26 J	ND	ND	ND	0.73 J	ND	ND	ND	0.37 J	0.55 J	0.31 J	0.86 J	0.65 J	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	--	ND	ND	ND	ND	0.69 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	--	ND	ND	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	--	0.37 J	0.41 J	ND	ND	0.30 J	ND	ND	ND	0.41 J	1.7 J	ND	1.0 J	0.62 J	0.66 J	ND	0.34 J	ND
Perfluorohexanesulfonic acid (PFHxS)	--	ND	ND	ND	ND	0.32 J	ND	ND	ND	0.40 J	ND	0.40 J	ND	0.60 J	0.49 J	ND	ND	ND
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluorooctanesulfonamide (PFOSA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 NJ	0.82 J	ND	ND	ND	ND	ND
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	ND	ND	2.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	0.80 J	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
9CI-PF3ONS (F53B Minor)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
11CI-PF3OUdS (F53B Major)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	ND

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Table 3
Groundwater Analytical Results – Emerging Contaminants
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID																	
		MW-11					MW-12					MW-13				MW-14			
		6/23/2021	9/28/2022	12/13/2023	12/13/2023	3/18/2025	12/12/2018	6/23/2021	9/27/2022	12/14/2023	3/19/2025	6/22/2021	9/27/2022	12/13/2023	3/19/2025	6/24/2021	9/29/2022	12/14/2023	3/19/2025
Semivolatile Organic Compounds (µg/L)					DUP														
1,4-Dioxane	0.35	ND	ND	ND	ND	ND	ND	0.019 J	0.32	0.31	0.34	ND	ND	ND	ND	ND	0.088 J	ND	ND
Fluorinated Alkyl Substances (ng/L)																			
Perfluorooctanoic acid (PFOA)	6.7	ND	0.72 J	ND	ND	ND	3.1	2.2	2.8 J	3.3	2.5	1.9 J	1.8 J	0.43 J	1.1 J	4.6	6.4	4.3	4.1
Perfluorooctanesulfonic acid (PFOS)	2.7	0.30 J	ND	ND	ND	ND	ND	1.1 J	1.5 J	1.7	1.1 J	1.7 J	ND	0.62 J	0.86 J	0.67 J	ND	ND	0.44 J
Perfluorobutanoic acid (PFBA)	--	1.2 J	1.4 J	1.5 J	2.3 J	ND	3.3	8.4	1.6 J	18	87	ND	1.5 J	ND	34	7.0	14 J	ND	ND
Perfluoropentanoic acid (PFPeA)	--	ND	ND	ND	0.44 J	ND	ND	1.2 J	ND	1.6 J	ND	ND	ND	ND	ND	ND	38	ND	ND
Perfluorohexanoic acid (PFHxA)	--	ND	ND	ND	0.29 J	ND	ND	1.7 J	3.9 J	ND	0.74 J	ND	2.2 J+	0.55 J	0.83 J	ND	3.3 J	ND	1.6 J
Perfluoroheptanoic acid (PFHpA)	--	ND	ND	ND	ND	ND	ND	0.86 J	1.1 J	1.1	0.69 J	0.51 J	2.0 J	ND	0.80 J	0.74 J	1.0 J	0.82 J	0.82 PF-23, J
Perfluorononanoic acid (PFNA)	--	ND	ND	ND	ND	ND	ND	0.38 J	ND	0.28 J	ND	0.42 J	0.91 J	0.20 J	0.80 J	0.28 J	ND	ND	ND
Perfluorodecanoic acid (PFDA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	--	ND	0.56 J	ND	ND	ND	3.6	0.80 J	4.4 J	0.75 J	0.48 J	0.77 J	ND	ND	ND	0.46 J	2.9	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	--	ND	ND	ND	ND	ND	4.8	0.46 J	ND	ND	0.63 J	0.65 J	ND	ND	ND	0.86 J	ND	1.0 J	ND
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriDA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluorooctanesulfonamide (PFOSA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	0.76 J	ND	ND	ND	ND
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
9Cl-PF3ONS (F53B Minor)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
11Cl-PF3OUdS (F53B Major)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	46 S-29
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NS	NS	ND	ND	ND	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND

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NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID																	
		MW-15					MW-16				MW-17				MW-18				
		12/12/2018	6/24/2021	9/29/2022	12/12/2023	3/19/2025	6/24/2021	9/29/2022	12/13/2023	3/19/2025	6/24/2021	9/30/2022	12/13/2023	3/18/2025	12/12/2018	6/23/2021	9/30/2022	12/13/2023	3/18/2025
Semivolatile Organic Compounds (µg/L)																			
1,4-Dioxane	0.35	0.56	0.92	2.8	0.14 J	ND	1.0	1.9	1.7	1.9	ND	0.49	0.19 J	0.22	ND	0.074 J	0.14 J	0.10 J	ND
Fluorinated Alkyl Substances (ng/L)																			
Perfluorooctanoic acid (PFOA)	6.7	2.6	1.1 J	1.6 J	ND	0.70 J	1.3 J	1.6 J	0.98 J	0.96 J	5.5	7.5	5.1	5.0	79	5.2	5.1	5.4	4.9
Perfluorooctanesulfonic acid (PFOS)	2.7	ND	0.31 J	ND	ND	0.47 J	1.1 J	1.5 J	1.1	0.80 J	20	31	30	25	20	14	12	11	9.9
Perfluorobutanoic acid (PFBA)	--	ND	3.3 J	3.0	3.8	2.5 J	3.2 J	1.6 J	4.2	8.4	14	4.6 J	37	370	2.9	11	7.1 J	8.5	170
Perfluoropentanoic acid (PFPeA)	--	ND	0.48 J	0.76 J	0.85 J	ND	0.75 J	0.80 J	1.6 J	ND	1.5 J	ND	ND	ND	9.8 J	0.81 J	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	--	2.6	0.64 J	0.78 J	0.63 J	0.41 J	0.70 J	0.82 J	0.89 J	0.53 J	2.8	3.3 J	4.8	2.0	11	2.5 J	ND	4.8	2.7
Perfluoroheptanoic acid (PFHpA)	--	ND	0.48 J	0.55 J	0.26 J	ND	0.45 J	0.45 J	0.39 J	0.32 J	1.5 J	1.3 J	1.4	0.97 J	12	1.2 J	1.4 J	2.8	0.92 J
Perfluorononanoic acid (PFNA)	--	ND	ND	ND	ND	ND	0.41 J	ND	0.27 J	ND	0.88 J	1.0 J	0.74 J	0.62 J	4.4 J	1.2 J	0.99 J	0.82 J	0.74 J
Perfluorodecanoic acid (PFDA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	ND	0.38 J	ND	ND	0.37 J	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.49 J	13 J	1.4	1.5 PF-23	11	1.1 J	14 J	1.0	1.0 J
Perfluorohexanesulfonic acid (PFHxS)	--	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	0.72 J	1.0 J	0.40 J	ND	5.4	1.2 J	0.87 J	0.72 J	0.96 J
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriDA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorooctanesulfonamide (PFOSA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72 J	0.58 PF-23, J	ND	ND	ND	ND	ND
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97 J	0.65 J	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	110	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
9Cl-PF3ONS (F53B Minor)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
11Cl-PF3OUdS (F53B Major)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
3-Perfluoropropyl propanoic acid (FPPrPA)(3:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND
Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)	--	NS	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	ND	ND	NS	NS	NS	ND	ND

Notes:

¹ New York State Department of Environmental Conservation (NYSDEC) Ambient Water Quality Guidance Value (AWQ GV)
µg/L - micrograms per liter
ng/L - nanograms per liter
ND - Not detected at the reporting limit
NS - Not sampled
Detected concentrations are in bold font.
Results greater than or equal to the NYSDEC AWQ GV are shaded in gray.
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.
NJ - The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value was the estimated concentration in the sample.
PF-23 - Qualifier ion ratio <50% of associated calibration. Detection is suspect.
S-29 - Extracted internal standard is outside of control limits.

Table 3
Groundwater Analytical Results – Emerging Contaminants
Northeast Alloys and Metals Site
NYSDEC Site No. 633045
Utica, New York

Analyte	NYSDEC AWQ GV ¹	Monitoring Well/Sample ID									
		Field Blank					Equipment Blank				
		12/12/2018	6/23/2021	9/30/2022	12/13/2023	3/20/2025	12/12/2018	6/23/2021	9/30/2022	12/13/2023	3/20/2025
Semivolatile Organic Compounds (µg/L)											
1,4-Dioxane	0.35	NS	ND	0.095 J	NS	ND	NS	NS	NS	NS	NS
Fluorinated Alkyl Substances (ng/L)											
Perfluorooctanoic acid (PFOA)	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonic acid (PFOS)	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanoic acid (PFBA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTriA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonic acid (PFBS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanesulfonic acid (PFHpS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanesulfonic acid (PFDS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoropentanesulfonic acid (PFPeS)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorononanesulfonic acid (PFNS)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluorooctanesulfonamide (PFOSA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
9CI-PF3ONS (F53B Minor)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
11CI-PF3OUdS (F53B Major)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND

Notes:
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µg/L - micrograms per liter
ng/L - nanograms per liter
ND - Not detected at the reporting limit
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J+ - The result was an estimated quantity, but the result may be biased high.
NJ - The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
PF-23 - Qualifier ion ratio <50% of associated calibration. Detection is suspect.
S-29 - Extracted internal standard is outside of control limits.

Appendix A Monitoring Well Purging/Sampling Forms

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	BR-1	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	BR-1-03192025	QA/QC Collected? <u>No</u>
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	48.86	feet
3. W = Static Depth to Water (TOC):	11.92	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	10:21	10:26	10:31	10:36	10:41	10:46	10:51
Water Level (0.33)	feet	12.07	12.12	12.15	12.16	12.18	12.20	12.22
Volume Purged	gal	0.25	0.50	0.75	1.0	1.25	1.50	1.75
Flow Rate	mL / min	200	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	5.01	4.33	3.28	3.71	4.33	2.70	0.02
Dissolved Oxygen (+/- 10%)	%	8.4	2.5	1.9	1.9	1.5	1.3	1.5
Dissolved Oxygen (+/- 10%)	mg/L	0.91	0.27	0.22	0.21	0.16	0.15	0.16
Eh / ORP (+/- 10)	MeV	75.4	62.3	45.3	22.1	-19.1	-66.2	-87.7
Specific Conductivity (+/- 3%)	mS/cm ^c	0.739	0.739	0.740	0.741	0.747	0.785	1.038
Conductivity (+/- 3%)	mS/cm	0.544	0.545	0.547	0.548	0.552	0.584	0.770
pH (+/- 0.1)	pH unit	7.57	7.58	7.58	7.57	7.55	7.48	7.19
Temp (+/- 0.5)	C	11.2	11.3	11.3	11.3	11.4	11.5	11.6
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr	10:56	11:01	11:06				
Water Level (0.33)	feet	12.24	12.25	12.26				
Volume Purged	gal	2.0	2.25	2.50				
Flow Rate	mL / min	200	200	200				
Turbidity (+/- 10%)	NTU	0.02	0.02	0.02				
Dissolved Oxygen (+/- 10%)	%	1.4	1.5	1.4				
Dissolved Oxygen (+/- 10%)	mg/L	0.16	0.17	0.15				
Eh / ORP (+/- 10)	MeV	-92.1	-95.6	-98.1				
Specific Conductivity (+/- 3%)	mS/cm ^c	1.090	1.109	1.114				
Conductivity (+/- 3%)	mS/cm	0.811	0.824	0.830				
pH (+/- 0.1)	pH unit	7.16	7.15	7.15				
Temp (+/- 0.5)	C	11.6	11.6	11.6				
Color	Visual	clear	clear	clear				
Odor	Olfactory	none	none	none				

Comments

Purge Start Time: 10:16
Sample Time: 11:11

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	BR-2	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	BR-2-03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	43.49	feet
3. W = Static Depth to Water (TOC):	7.88	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	12:20	12:25	12:30	12:35	12:40	12:45	12:50
Water Level (0.33)	feet	9.56	9.95	9.85	9.85	9.85	9.89	9.93
Volume Purged	gal	0.25	0.50	0.65	0.80	1.0	1.20	1.40
Flow Rate	mL / min	180	180	120	120	120	120	120
Turbidity (+/- 10%)	NTU	33.5	27.3	47.5	97.6	103.0	99.2	55.6
Dissolved Oxygen (+/- 10%)	%	4.5	4.9	4.5	4.9	2.4	2.5	2.6
Dissolved Oxygen (+/- 10%)	mg/L	0.49	0.51	0.49	0.54	0.26	0.26	0.27
Eh / ORP (+/- 10)	MeV	-18.8	-25.6	-29.4	-33.3	-37.0	-39.7	-42.2
Specific Conductivity (+/- 3%)	mS/cm ^c	1.505	1.496	1.497	1.500	1.507	1.513	1.519
Conductivity (+/- 3%)	mS/cm	1.114	1.107	1.105	1.109	1.116	1.117	1.123
pH (+/- 0.1)	pH unit	6.90	6.95	6.96	6.93	6.91	6.90	6.88
Temp (+/- 0.5)	C	11.4	11.3	11.3	11.4	11.5	11.3	11.4
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr	12:55	13:00	13:05				
Water Level (0.33)	feet	9.99	9.95	9.98				
Volume Purged	gal	1.65	1.85	2.0				
Flow Rate	mL / min	120	120	120				
Turbidity (+/- 10%)	NTU	39.3	36.8	36.1				
Dissolved Oxygen (+/- 10%)	%	2.7	2.8	2.7				
Dissolved Oxygen (+/- 10%)	mg/L	0.29	0.32	0.30				
Eh / ORP (+/- 10)	MeV	-44.3	-45.6	-47.0				
Specific Conductivity (+/- 3%)	mS/cm ^c	1.519	1.520	1.519				
Conductivity (+/- 3%)	mS/cm	1.125	1.127	1.128				
pH (+/- 0.1)	pH unit	6.88	6.87	6.87				
Temp (+/- 0.5)	C	11.4	11.5	11.5				
Color	Visual	clear	clear	clear				
Odor	Olfactory	none	none	none				

Comments

Purge Start Time: 12:15
Sample Time: 13:10

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	BR-3	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	BR-3 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	

1. L = Total Well Depth:	35.10	feet
3. W = Static Depth to Water (TOC):	7.65	feet

Water Quality Readings Collected Using YSI Pro Quatro

Parameter	Units	Readings						
Time	24 hr	14:40	14:45	14:50	14:55	15:00	15:05	
Water Level (0.33)	feet	7.70	7.75	7.75	7.75	7.75	7.75	
Volume Purged	gal	0.20	0.50	0.75	1.0	1.30	1.70	
Flow Rate	mL / min	120	120	120	120	120	120	
Turbidity (+/- 10%)	NTU	61.3	49.7	47.6	48.0	45.0	43.1	
Dissolved Oxygen (+/- 10%)	%	70.8	5.8	5.1	4.0	3.9	3.7	
Dissolved Oxygen (+/- 10%)	mg/L	6.79	0.59	0.47	0.41	0.39	0.38	
Eh / ORP (+/- 10)	MeV	38.6	-37.6	-55.1	-70.5	-114.6	-120.7	
Specific Conductivity (+/- 3%)	mS/cm ^c	2.446	2.441	2.441	2.442	2.440	2.435	
Conductivity (+/- 3%)	mS/cm	1.904	1.906	1.904	1.903	1.901	1.900	
pH (+/- 0.1)	pH unit	7.18	7.12	7.13	7.14	7.14	7.14	
Temp (+/- 0.5)	C	13.4	13.5	13.5	13.5	13.5	13.5	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 14:40
Sample Time: 15:10

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-1	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-1-03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	22.76	feet
3. W = Static Depth to Water (TOC):	9.03	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	15:45	15:50	15:55	16:00	16:05	16:10	16:15
Water Level (0.33)	feet	9.35	9.41	9.48	9.52	9.58	9.56	9.59
Volume Purged	gal	0.25	0.50	0.75	1.0	1.25	1.50	1.75
Flow Rate	mL / min	220	160	160	160	160	160	160
Turbidity (+/- 10%)	NTU	16.2	13.2	14.7	16.1	12.4	11.8	11.9
Dissolved Oxygen (+/- 10%)	%	101.7	98.9	97.3	98.3	98.9	97.5	98.4
Dissolved Oxygen (+/- 10%)	mg/L	11.07	10.83	10.70	10.82	10.93	10.76	10.86
Eh / ORP (+/- 10)	MeV	103.2	108.8	113.5	116.0	118.5	120.9	123.1
Specific Conductivity (+/- 3%)	mS/cm ^c	3.247	3.240	3.229	3.226	3.215	3.209	3.195
Conductivity (+/- 3%)	mS/cm	2.382	2.362	2.346	2.335	2.319	2.317	2.311
pH (+/- 0.1)	pH unit	6.82	6.84	6.84	6.84	6.84	6.84	6.83
Temp (+/- 0.5)	C	11.0	10.9	10.7	10.5	10.4	10.5	10.5
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 15:40
Sample Time: 16:20

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-3	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-3 03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	21.85	feet
3. W = Static Depth to Water (TOC):	8.20	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	15:50	15:55	16:00	16:05	16:10	16:15	
Water Level (0.33)	feet	9.10	9.65	9.80	10.20	11.0	11.31	
Volume Purged	gal	0.25	0.50	1.0	1.20	1.50	1.70	
Flow Rate	mL / min	120	120	120	110	100	90	
Turbidity (+/- 10%)	NTU	175	132	127	61.9	67.6	69.6	
Dissolved Oxygen (+/- 10%)	%	74.6	51.6	50.0	49.6	49.3	49.0	
Dissolved Oxygen (+/- 10%)	mg/L	8.06	5.71	5.60	5.54	5.51	5.46	
Eh / ORP (+/- 10)	MeV	93.8	63.9	58.0	42.1	38.5	36.1	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.696	0.695	0.699	0.700	0.706	0.705	
Conductivity (+/- 3%)	mS/cm	0.508	0.505	0.503	0.505	0.508	0.508	
pH (+/- 0.1)	pH unit	6.75	6.75	6.77	6.78	6.77	6.77	
Temp (+/- 0.5)	C	10.9	10.7	10.2	10.4	10.3	10.4	
Color	Visual	iron	iron	iron	iron	iron	iron	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 15:50
Sample Time: 16:20

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-4	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-4 03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	17.28	feet
3. W = Static Depth to Water (TOC):	1.90	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	14:40	14:45	14:50	14:55	15:00	15:05	
Water Level (0.33)	feet	2.25	2.47	2.70	2.90	3.10	3.20	
Volume Purged	gal	0.20	0.60	1.0	1.25	1.75	2.20	
Flow Rate	mL / min	120	120	120	120	120	120	
Turbidity (+/- 10%)	NTU	92.5	87.1	73.7	69.1	67.2	71.6	
Dissolved Oxygen (+/- 10%)	%	103.3	82.9	77.2	76.4	76.3	75.9	
Dissolved Oxygen (+/- 10%)	mg/L	11.81	9.51	8.88	8.85	8.71	8.58	
Eh / ORP (+/- 10)	MeV	49.6	55.9	59.6	62.7	65.3	68.6	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.4107	0.4009	0.3994	0.3991	0.3995	0.3997	
Conductivity (+/- 3%)	mS/cm	0.2361	0.2809	0.2779	0.2762	0.2759	0.2756	
pH (+/- 0.1)	pH unit	7.25	7.22	7.21	7.24	7.23	7.23	
Temp (+/- 0.5)	C	9.3	9.2	9.1	8.8	8.7	8.7	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 14:40
Sample Time: 15:10

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-5	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-5 03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	18.96	feet
3. W = Static Depth to Water (TOC):	2.58	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	13:35	13:40	13:45	13:50	13:55	14:00	
Water Level (0.33)	feet	3.03	3.70	3.90	4.10	4.15	4.20	
Volume Purged	gal	0.20	1.0	1.25	1.60	2.0	2.25	
Flow Rate	mL / min	120	120	120	120	120	120	
Turbidity (+/- 10%)	NTU	158	154	149	147	139	135	
Dissolved Oxygen (+/- 10%)	%	138.5	7.8	5.2	4.4	4.3	4.3	
Dissolved Oxygen (+/- 10%)	mg/L	13.68	0.87	0.57	0.50	0.44	0.48	
Eh / ORP (+/- 10)	MeV	6.8	-28.3	-32.1	-33.1	-32.7	-30.2	
Specific Conductivity (+/- 3%)	mS/cm ^c	1.131	1.142	1.138	1.029	1.014	0.999	
Conductivity (+/- 3%)	mS/cm	0.813	0.819	0.815	0.727	0.725	0.716	
pH (+/- 0.1)	pH unit	7.04	6.95	6.94	6.95	6.95	6.95	
Temp (+/- 0.5)	C	10.2	10.2	10.2	9.7	9.5	9.4	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 13:35
Sample Time: 14:05

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-6	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-6 03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	22.75	feet
3. W = Static Depth to Water (TOC):	2.98	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	12:45	12:50	12:55	13:00	13:05	13:10	
Water Level (0.33)	feet	3.31	3.51	3.60	3.65	3.76	3.80	
Volume Purged	gal	0.20	0.50	0.75	1.20	1.50	1.75	
Flow Rate	mL / min	120	120	120	120	120	120	
Turbidity (+/- 10%)	NTU	59.0	63.1	61.2	57.6	55.6	57.1	
Dissolved Oxygen (+/- 10%)	%	135	10.8	6.3	4.7	4.5	4.5	
Dissolved Oxygen (+/- 10%)	mg/L	13.76	1.19	0.70	0.52	0.51	0.49	
Eh / ORP (+/- 10)	MeV	37.9	-68.0	-78.2	-84.2	-86.1	-87.5	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.942	0.950	0.950	0.948	0.947	0.946	
Conductivity (+/- 3%)	mS/cm	0.686	0.637	0.687	0.688	0.685	0.683	
pH (+/- 0.1)	pH unit	6.95	6.97	7.01	7.04	7.05	7.05	
Temp (+/- 0.5)	C	10.8	10.5	10.5	10.6	10.5	10.5	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 12:45
Sample Time: 13:15

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-7R	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-7R 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	15.40	feet
3. W = Static Depth to Water (TOC):	10.49	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	15:40	15:45	15:50	15:55	16:00	16:05	16:10
Water Level (0.33)	feet	10.75	11.0	10.80	10.80	10.78	10.80	10.80
Volume Purged	gal	0.20	0.40	0.60	0.80	1.20	1.40	1.70
Flow Rate	mL / min	120	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	200	137	63	52	49	50	47
Dissolved Oxygen (+/- 10%)	%	88.7	10.1	7.2	10.4	4.1	4.1	4.0
Dissolved Oxygen (+/- 10%)	mg/L	8.31	1.03	0.75	1.09	0.44	0.43	0.39
Eh / ORP (+/- 10)	MeV	-18.1	-63.5	-69.5	-54.5	-49.3	-47.1	-45.2
Specific Conductivity (+/- 3%)	mS/cm ^c	14.750	14.828	11.680	7.650	6.228	6.201	6.179
Conductivity (+/- 3%)	mS/cm	11.190	11.102	8.592	5.549	4.521	4.479	4.451
pH (+/- 0.1)	pH unit	6.96	7.02	7.02	6.91	6.85	6.86	6.87
Temp (+/- 0.5)	C	12.3	11.8	11.4	10.8	10.4	10.5	10.4
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 15:40
Sample Time: 16:10

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-8	Date: 3/20/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-8-03202025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	<u>13.76</u>	feet
3. W = Static Depth to Water (TOC):	<u>6.40</u>	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	9:03	9:08	9:13	9:18	9:23	9:28	9:33
Water Level (0.33)	feet	7.25	7.72	7.67	7.70	7.75	7.67	7.65
Volume Purged	gal	0.10	0.20	0.30	0.40	0.50	0.60	0.70
Flow Rate	mL / min	220	120	120	120	120	120	120
Turbidity (+/- 10%)	NTU	270	234	213	193	193	206	188
Dissolved Oxygen (+/- 10%)	%	6.9	6.0	5.1	4.7	4.0	4.0	4.0
Dissolved Oxygen (+/- 10%)	mg/L	0.78	0.66	0.58	0.53	0.45	0.44	0.45
Eh / ORP (+/- 10)	MeV	-88.8	-93.2	-98.6	-100.8	-104.8	-107.1	-107.8
Specific Conductivity (+/- 3%)	mS/cm ^c	0.834	0.878	0.882	0.898	0.938	0.936	0.957
Conductivity (+/- 3%)	mS/cm	0.587	0.617	0.626	0.639	0.664	0.673	0.680
pH (+/- 0.1)	pH unit	7.24	7.21	7.20	7.19	7.18	7.18	7.18
Temp (+/- 0.5)	C	9.4	9.6	9.8	9.9	9.9	10.1	10.2
Color	Visual	dirty	dirty	dirty	dirty	dirty	dirty	dirty
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 8:58
Sample Time: 9:38

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-9	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-9 03182025	QA/QC Collected? MS/MSD
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	15.85	feet
3. W = Static Depth to Water (TOC):	6.58	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	10:46	10:51	10:56	11:01	11:06	11:11	
Water Level (0.33)	feet	6.60	6.63	6.63	6.63	6.63	6.63	
Volume Purged	gal	0.50	1.0	1.50	2.0	2.20	2.50	
Flow Rate	mL / min	120	120	120	120	120	120	
Turbidity (+/- 10%)	NTU	312	279	301	257	216	222	
Dissolved Oxygen (+/- 10%)	%	40.4	2.97	19.7	20.3	20.5	21.0	
Dissolved Oxygen (+/- 10%)	mg/L	5.28	2.50	2.25	2.30	2.33	2.40	
Eh / ORP (+/- 10)	MeV	37.9	59.1	57.9	57.5	57.0	57.0	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.540	0.513	0.509	0.508	0.508	0.506	
Conductivity (+/- 3%)	mS/cm	0.3803	0.3635	0.3596	0.3595	0.3594	0.3581	
pH (+/- 0.1)	pH unit	7.26	6.92	6.94	6.95	6.96	6.96	
Temp (+/- 0.5)	C	9.6	9.6	9.6	9.6	9.6	9.6	
Color	Visual	cloudy	cloudy	red	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 10:46
Sample Time: 11:15

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-10	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-10-03182025	QA/QC Collected? <u>DUP</u>
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	19.0	feet
3. W = Static Depth to Water (TOC):	4.73	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	10:35	10:40	10:45	10:50	10:55	11:00	11:05
Water Level (0.33)	feet	4.80	4.80	4.80	4.80	4.80	4.80	4.80
Volume Purged	gal	0.15	0.30	0.45	0.60	0.75	0.90	1.10
Flow Rate	mL / min	150	150	150	150	150	150	150
Turbidity (+/- 10%)	NTU	18.2	15.3	16.3	13.1	12	9.82	9.82
Dissolved Oxygen (+/- 10%)	%	16.2	8.0	6.4	7.6	7.2	6.7	6.4
Dissolved Oxygen (+/- 10%)	mg/L	1.83	0.90	0.75	0.85	0.82	0.77	0.73
Eh / ORP (+/- 10)	MeV	-81.3	-102.4	-114.2	-121	-125.1	-125	-125.2
Specific Conductivity (+/- 3%)	mS/cm ^c	0.603	0.585	0.580	0.582	0.578	0.577	0.573
Conductivity (+/- 3%)	mS/cm	0.4255	0.4152	0.4097	0.4098	0.4074	0.4074	0.4056
pH (+/- 0.1)	pH unit	7.38	7.42	7.43	7.43	7.41	7.41	7.39
Temp (+/- 0.5)	C	9.5	9.8	9.7	9.7	9.6	9.6	9.6
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr	11:10						
Water Level (0.33)	feet	4.80						
Volume Purged	gal	1.3						
Flow Rate	mL / min	150						
Turbidity (+/- 10%)	NTU	5.1						
Dissolved Oxygen (+/- 10%)	%	6.5						
Dissolved Oxygen (+/- 10%)	mg/L	0.74						
Eh / ORP (+/- 10)	MeV	-123.9						
Specific Conductivity (+/- 3%)	mS/cm ^c	0.571						
Conductivity (+/- 3%)	mS/cm	0.4038						
pH (+/- 0.1)	pH unit	7.38						
Temp (+/- 0.5)	C	9.6						
Color	Visual	clear						
Odor	Olfactory	none						

Comments

Purge Start Time: 10:30
Sample Time: 11:15

Geopump #7847

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-11	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-11-03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	20.35	feet
3. W = Static Depth to Water (TOC):	7.23	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	15:46	15:51	15:56	16:01	16:06	16:11	
Water Level (0.33)	feet	8.17	8.42	8.42	8.52	8.58	8.67	
Volume Purged	gal	0.20	0.35	0.50	0.70	0.90	1.10	
Flow Rate	mL / min	200	200	200	200	200	200	
Turbidity (+/- 10%)	NTU	7.05	6.16	4.64	2.62	2.58	0.02	
Dissolved Oxygen (+/- 10%)	%	15.5	13.6	14.3	13.4	13.3	12.3	
Dissolved Oxygen (+/- 10%)	mg/L	1.75	1.54	1.61	1.52	1.51	1.41	
Eh / ORP (+/- 10)	MeV	123.5	123.3	124.3	126.2	127.1	128.1	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.710	0.711	0.713	0.715	0.719	0.720	
Conductivity (+/- 3%)	mS/cm	0.502	0.506	0.505	0.504	0.507	0.506	
pH (+/- 0.1)	pH unit	6.60	6.61	6.61	6.61	6.61	6.61	
Temp (+/- 0.5)	C	9.6	9.9	9.7	9.6	9.6	9.5	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 15:41
Sample Time: 16:16

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-12	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-12-03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	22.04	feet
3. W = Static Depth to Water (TOC):	9.42	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	8:40	8:45	8:50	8:55	9:00	9:05	9:10
Water Level (0.33)	feet	10.01	10.02	10.03	10.07	10.12	10.12	10.12
Volume Purged	gal	0.20	0.40	0.55	0.75	0.95	1.15	1.35
Flow Rate	mL / min	200	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	155	132	117	119	83.9	67.8	46.5
Dissolved Oxygen (+/- 10%)	%	15.4	11.9	11.0	10.5	10.2	9.9	9.7
Dissolved Oxygen (+/- 10%)	mg/L	1.76	1.38	1.27	1.22	1.17	1.14	1.11
Eh / ORP (+/- 10)	MeV	-115.5	-128.8	-135.3	-141.0	-145.5	-147.5	-149.6
Specific Conductivity (+/- 3%)	mS/cm ^c	0.818	0.817	0.818	0.824	0.826	0.829	0.830
Conductivity (+/- 3%)	mS/cm	0.568	0.565	0.567	0.571	0.574	0.576	0.578
pH (+/- 0.1)	pH unit	7.37	7.37	7.36	7.37	7.37	7.37	7.37
Temp (+/- 0.5)	C	9.1	8.9	8.9	9.0	9.0	9.0	9.1
Color	Visual	dirty	dirty	dirty	dirty	dirty	dirty	dirty
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr	9:15	9:20					
Water Level (0.33)	feet	10.12	10.12					
Volume Purged	gal	1.55	1.75					
Flow Rate	mL / min	200	200					
Turbidity (+/- 10%)	NTU	46.8	42.8					
Dissolved Oxygen (+/- 10%)	%	9.2	8.9					
Dissolved Oxygen (+/- 10%)	mg/L	1.05	1.03					
Eh / ORP (+/- 10)	MeV	-150.9	-151.8					
Specific Conductivity (+/- 3%)	mS/cm ^c	0.833	0.834					
Conductivity (+/- 3%)	mS/cm	0.581	0.582					
pH (+/- 0.1)	pH unit	7.37	7.37					
Temp (+/- 0.5)	C	9.2	9.2					
Color	Visual	dirty	dirty					
Odor	Olfactory	none	none					

Comments

Purge Start Time: 8:35
Sample Time: 9:25

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-13	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-13 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	20.92	feet
3. W = Static Depth to Water (TOC):	7.06	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	12:05	12:10	12:15	12:20	12:25	12:30	
Water Level (0.33)	feet	7.63	8.10	8.75	8.95	9.01	9.12	
Volume Purged	gal	0.20	0.60	0.80	1.0	1.20	1.40	
Flow Rate	mL / min	120	120	100	90	90	90	
Turbidity (+/- 10%)	NTU	29.2	25.6	24.3	21.6	24.8	27.6	
Dissolved Oxygen (+/- 10%)	%	38.6	10.2	7.1	5.3	5.2	5.3	
Dissolved Oxygen (+/- 10%)	mg/L	4.03	1.24	0.78	0.59	0.59	0.60	
Eh / ORP (+/- 10)	MeV	3.80	-14.7	-28.8	-28.4	-29.7	-32.0	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.383	0.375	0.370	0.3682	0.3701	0.3723	
Conductivity (+/- 3%)	mS/cm	0.280	0.271	0.269	0.2671	0.2688	0.269	
pH (+/- 0.1)	pH unit	7.10	6.99	6.95	6.93	6.94	6.94	
Temp (+/- 0.5)	C	11.0	10.9	10.8	10.6	10.6	10.5	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 12:05
Sample Time: 12:35

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-14	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-14 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	21.35	feet
3. W = Static Depth to Water (TOC):	8.65	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	13:00	13:05	13:10	13:15	13:20	13:25	13:30
Water Level (0.33)	feet	8.85	9.25	9.45	9.51	9.60	9.65	9.67
Volume Purged	gal	0.20	0.50	0.70	0.90	1.20	1.40	1.60
Flow Rate	mL / min	120	120	100	100	100	100	100
Turbidity (+/- 10%)	NTU	9.0	7.6	10.7	7.6	9.1	7.4	8.1
Dissolved Oxygen (+/- 10%)	%	30.5	7.4	4.8	4.1	4.0	3.9	3.7
Dissolved Oxygen (+/- 10%)	mg/L	3.16	0.98	0.53	0.45	0.43	0.41	0.39
Eh / ORP (+/- 10)	MeV	0.1	-8.1	-13.1	-21.2	-23.7	-29.2	-30.0
Specific Conductivity (+/- 3%)	mS/cm ^c	0.538	0.540	0.541	0.539	0.536	0.535	0.532
Conductivity (+/- 3%)	mS/cm	0.402	0.399	0.398	0.398	0.397	0.396	0.396
pH (+/- 0.1)	pH unit	9.14	9.11	9.10	9.10	9.10	9.10	9.10
Temp (+/- 0.5)	C	11.7	11.5	11.3	11.4	11.4	11.4	11.5
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	HCL	HCL	HCL	HCL	HCL	HCL	HCL

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 13:00
Sample Time: 13:30

Sheen on water

HCL = hydrocarbon-like

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-15	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-15 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	15.75	feet
3. W = Static Depth to Water (TOC):	7.35	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	8:30	8:35	8:40	8:45	8:50	8:55	
Water Level (0.33)	feet	7.65	8.22	8.25	8.25	8.25	8.25	
Volume Purged	gal	0.20	0.50	0.70	0.90	1.10	1.40	
Flow Rate	mL / min	120	100	100	100	100	100	
Turbidity (+/- 10%)	NTU	151	147	135	137	124	131	
Dissolved Oxygen (+/- 10%)	%	199.8	78.2	71.3	71	70.6	69.2	
Dissolved Oxygen (+/- 10%)	mg/L	22.05	9.31	8.48	8.44	8.38	8.29	
Eh / ORP (+/- 10)	MeV	64.1	77.5	89.0	96.4	101.2	105	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.734	0.735	0.733	0.733	0.737	0.740	
Conductivity (+/- 3%)	mS/cm	0.4883	0.491	0.491	0.490	0.505	0.510	
pH (+/- 0.1)	pH unit	7.64	7.23	7.14	7.12	7.12	7.11	
Temp (+/- 0.5)	C	7.5	7.6	7.7	7.7	7.8	7.9	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 8:30
Sample Time: 9:00

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-16	Date: 3/19/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-16 03192025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	15.10	feet
3. W = Static Depth to Water (TOC):	6.78	feet
Water Quality Readings Collected Using	YSI Pro Quatro	

Parameter	Units	Readings						
Time	24 hr	9:25	9:30	9:35	9:40	9:45	9:50	
Water Level (0.33)	feet	7.01	7.20	7.42	7.60	7.65	7.70	
Volume Purged	gal	0.20	0.50	0.75	1.0	1.20	1.40	
Flow Rate	mL / min	120	110	100	100	100	100	
Turbidity (+/- 10%)	NTU	154	157	143	137	151	148	
Dissolved Oxygen (+/- 10%)	%	97.2	20	10.5	7.8	7.4	7.0	
Dissolved Oxygen (+/- 10%)	mg/L	10.48	2.26	1.21	0.90	0.87	0.83	
Eh / ORP (+/- 10)	MeV	97.0	96.4	43.0	2.5	-3.7	-9.2	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.751	0.750	0.763	0.768	0.773	0.775	
Conductivity (+/- 3%)	mS/cm	0.523	0.523	0.531	0.537	0.540	0.542	
pH (+/- 0.1)	pH unit	7.01	6.91	6.81	6.86	6.85	6.85	
Temp (+/- 0.5)	C	9.1	9.1	9.1	9.2	9.3	9.3	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 9:25
Sample Time: 10:00

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-17	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-17-03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	15.88	feet
3. W = Static Depth to Water (TOC):	5.88	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	12:48	12:53	12:58	13:03	13:08	13:13	13:18
Water Level (0.33)	feet	6.44	6.51	6.51	6.55	6.57	6.58	6.62
Volume Purged	gal	0.20	0.40	0.60	0.80	1.0	1.20	1.40
Flow Rate	mL / min	250	200	200	200	200	200	200
Turbidity (+/- 10%)	NTU	63.1	60.7	59.3	53.1	38.3	37.3	39.9
Dissolved Oxygen (+/- 10%)	%	7.2	6.0	4.6	4.9	3.7	3.4	3.4
Dissolved Oxygen (+/- 10%)	mg/L	0.83	0.72	0.55	0.58	0.44	0.40	0.40
Eh / ORP (+/- 10)	MeV	67.6	62.6	46.3	35.8	22.8	17.1	16.0
Specific Conductivity (+/- 3%)	mS/cm ^c	0.829	0.836	0.847	0.862	0.898	0.913	0.919
Conductivity (+/- 3%)	mS/cm	0.555	0.556	0.566	0.576	0.603	0.612	0.617
pH (+/- 0.1)	pH unit	7.17	7.18	7.16	7.14	7.09	7.09	7.08
Temp (+/- 0.5)	C	7.7	7.6	7.6	7.6	7.8	7.8	7.9
Color	Visual	dirty	dirty	dirty	dirty	dirty	dirty	dirty
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr							
Water Level (0.33)	feet							
Volume Purged	gal							
Flow Rate	mL / min							
Turbidity (+/- 10%)	NTU							
Dissolved Oxygen (+/- 10%)	%							
Dissolved Oxygen (+/- 10%)	mg/L							
Eh / ORP (+/- 10)	MeV							
Specific Conductivity (+/- 3%)	mS/cm ^c							
Conductivity (+/- 3%)	mS/cm							
pH (+/- 0.1)	pH unit							
Temp (+/- 0.5)	C							
Color	Visual							
Odor	Olfactory							

Comments

Purge Start Time: 12:43
Sample Time: 13:23

Monitoring Well Purging/Sampling Form

Project Name and Number:	Former NE Alloys & Metals Site	60632323
Monitoring Well Number:	MW-18	Date: 3/18/2025
Samplers:	Keith Stahle and Ray Heller	
Sample Number:	MW-18-03182025	QA/QC Collected? No
Purging / Sampling Method:	low flow GW sampling (peristaltic pump)	
1. L = Total Well Depth:	10.33	feet
3. W = Static Depth to Water (TOC):	3.02	feet
Water Quality Readings Collected Using	YSI Pro Quatro #8417, geotech turbidity meter #6620	

Parameter	Units	Readings						
Time	24 hr	14:05	14:10	14:15	14:20	14:25	14:30	14:35
Water Level (0.33)	feet	4.62	4.41	4.58	4.71	4.51	4.76	4.83
Volume Purged	gal	0.25	0.50	0.70	0.95	1.20	1.45	1.70
Flow Rate	mL / min	220	220	220	220	220	220	220
Turbidity (+/- 10%)	NTU	80.9	44.8	53.1	85.1	45.5	37.9	38.8
Dissolved Oxygen (+/- 10%)	%	7.5	6.0	4.3	3.4	3.4	2.4	2.3
Dissolved Oxygen (+/- 10%)	mg/L	0.90	0.70	0.51	0.41	0.41	0.29	0.28
Eh / ORP (+/- 10)	MeV	49.4	45.4	36.0	22.1	9.0	-6.8	-10.7
Specific Conductivity (+/- 3%)	mS/cm ^c	0.568	0.574	0.573	0.573	0.575	0.573	0.571
Conductivity (+/- 3%)	mS/cm	0.378	0.3854	0.3842	0.3848	0.341	0.341	0.337
pH (+/- 0.1)	pH unit	7.28	7.32	7.29	7.29	7.31	7.29	7.29
Temp (+/- 0.5)	C	7.5	7.8	7.6	7.7	7.7	7.7	7.8
Color	Visual	dirty	dirty	dirty	dirty	dirty	dirty	dirty
Odor	Olfactory	none	none	none	none	none	none	none

Parameter	Units	Readings						
Time	24 hr	14:40						
Water Level (0.33)	feet	4.86						
Volume Purged	gal	1.90						
Flow Rate	mL / min	220						
Turbidity (+/- 10%)	NTU	35.7						
Dissolved Oxygen (+/- 10%)	%	2.2						
Dissolved Oxygen (+/- 10%)	mg/L	0.27						
Eh / ORP (+/- 10)	MeV	-14.8						
Specific Conductivity (+/- 3%)	mS/cm ^c	0.572						
Conductivity (+/- 3%)	mS/cm	0.341						
pH (+/- 0.1)	pH unit	7.30						
Temp (+/- 0.5)	C	7.8						
Color	Visual	dirty						
Odor	Olfactory	none						

Comments

Purge Start Time: 14:00
Sample Time: 14:45

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

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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.

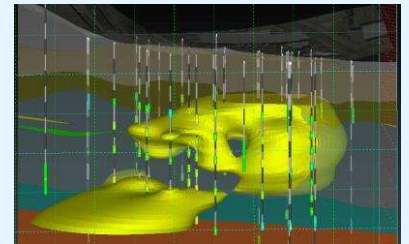
Technologies for collecting real-time data are typically non-invasive or minimally invasive; examples include:

- 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 McChord 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.

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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

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- ⁸ U.S. EPA; *Greener Cleanups Contracting and Administrative Toolkit*; http://www.cluin.org/greenremediation/docs/Greener_Cleanups_Contracting_and_Administrative_Toolkit.pdf
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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:
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U.S. Environmental Protection Agency

Appendix C Laboratory Reports and Data Usability Summary Reports

May 13, 2025

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

Project Location: 2145 Dwyer Ave, Utica, NY
Client Job Number:
Project Number: 633045
Laboratory Work Order Number: 25C1250

Enclosed are results of analyses for samples as received by the laboratory on March 20, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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: 5/13/2025

PURCHASE ORDER NUMBER: 152951

PROJECT NUMBER: 633045

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C1250

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 2145 Dwyer Ave, Utica, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-9 03182025	25C1250-01	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-10 03182025	25C1250-02	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
DUP-1 03182025	25C1250-03	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-6 03182025	25C1250-04	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-17 03182025	25C1250-05	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-5 03182025	25C1250-06	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-18 03182025	25C1250-07	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-4 03182025	25C1250-08	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-11 03182025	25C1250-09	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-3 03182025	25C1250-10	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-15 03192025	25C1250-11	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-16 03192025	25C1250-12	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-13 03192025	25C1250-13	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	



Pace Analytical Services, LLC - East Longmeadow, Ma

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: 5/13/2025

PURCHASE ORDER NUMBER: 152951

PROJECT NUMBER: 633045

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C1250

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 2145 Dwyer Ave, Utica, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-12 03192025	25C1250-14	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
BR-1 03192025	25C1250-15	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
TRIP BLANK	25C1250-16	Trip Blank Water		EPA 624.1	
BR-2 03192025	25C1250-17	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	

CASE NARRATIVE SUMMARY

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

REVISED 5/13/25: 624.1 VOA results revised to add Cis-1,2-Dichloroethylene to reported compound list, per client request.

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Draft Method 1633**Qualifications:**

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:

13C2-4:2FTS
25C1250-02[MW-10 03182025], 25C1250-14[MW-12 03192025]
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)
25C1250-02[MW-10 03182025], 25C1250-14[MW-12 03192025]

PF-22

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

Analyte & Samples(s) Qualified:

Perfluorohexanoic acid (PFHxA)
25C1250-03[DUP-1 03182025], 25C1250-12[MW-16 03192025]

PF-23

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

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
25C1250-05RE1[MW-17 03182025]
Perfluorohexanoic acid (PFHxA)
25C1250-04[MW-6 03182025]
Perfluorooctanesulfonamide (PFOSA)
25C1250-05RE1[MW-17 03182025]

PF-24

Non-extracted internal standard compound recovery <50%. Re-extracted sample exhibited similar results. Possible high bias present on associated extracted internal standard recoveries

Analyte & Samples(s) Qualified:

13C3-PFBA
25C1250-05RE1[MW-17 03182025], 25C1250-07RE1[MW-18 03182025], 25C1250-10RE1[MW-3 03182025], 25C1250-14[MW-12 03192025]
13C4-PFBA
25C1250-05RE1[MW-17 03182025], 25C1250-07RE1[MW-18 03182025], 25C1250-10RE1[MW-3 03182025], 25C1250-14[MW-12 03192025]

EPA 624.1**Qualifications:**

L-01

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

Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene
B401500-BS1, B401500-MS1, B401500-MSD1

L-03

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

Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene
25C1250-02[MW-10 03182025], 25C1250-03[DUP-1 03182025], 25C1250-04[MW-6 03182025], 25C1250-08[MW-4 03182025], 25C1250-09[MW-11 03182025], 25C1250-10[MW-3 03182025], 25C1250-16[TRIP BLANK], B401423-BLK1, B401423-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

25C1250-05[MW-17 03182025], 25C1250-11[MW-15 03192025], 25C1250-12[MW-16 03192025]

RL-13

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

25C1250-07[MW-18 03182025]

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.

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



Lisa A. Worthington
Technical Representative

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
cis-1,2-Dichloroethylene	3.14	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Trichloroethylene	58.8	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:34	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	102	70-130				3/26/25 3:34				
Toluene-d8	99.9	70-130				3/26/25 3:34				
4-Bromofluorobenzene	86.4	70-130				3/26/25 3:34				



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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	0.11	µg/L	1		SW-846 8270E	3/20/25	3/24/25 22:33	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.7		15-110				3/24/25 22:33			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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)	13	6.8	0.85	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoropentanoic acid (PFPeA)	6.2	3.4	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorohexanoic acid (PFHxA)	1.6	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroheptanoic acid (PFHpA)	0.86	1.7	0.30	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanoic acid (PFOA)	3.9	1.7	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorobutanesulfonic acid (PFBS)	1.0	1.7	0.36	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.90	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.76	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.8	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.8	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.8	3.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanesulfonamide (PFOSA)	0.82	1.7	0.59	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.8	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.8	0.90	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
9Cl-PF3ONS (F53B Minor)	ND	6.8	0.99	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
11Cl-PF3OUDS (F53B Major)	ND	6.8	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.5	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	42	7.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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	3.4	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	90.6		5-130				4/4/25 14:44			
13C5-PFPeA	93.9		40-130				4/4/25 14:44			
13C5-PFHxA	95.4		40-130				4/4/25 14:44			
13C4-PFHpA	96.1		40-130				4/4/25 14:44			
13C8-PFOA	94.0		40-130				4/4/25 14:44			
13C9-PFNA	92.5		40-130				4/4/25 14:44			
13C6-PFDA	84.6		40-130				4/4/25 14:44			
13C7-PFUnA	86.2		30-130				4/4/25 14:44			
13C2-PFDoA	71.9		10-130				4/4/25 14:44			
13C2-PFTeDA	70.3		10-130				4/4/25 14:44			
13C3-PFBS	96.7		40-135				4/4/25 14:44			
13C3-PFHxS	96.4		40-130				4/4/25 14:44			
13C8-PFOS	88.5		40-130				4/4/25 14:44			
13C2-4:2FTS	188		40-200				4/4/25 14:44			
13C2-6:2FTS	126		40-200				4/4/25 14:44			
13C2-8:2FTS	98.7		40-300				4/4/25 14:44			
13C8-PFOSA	80.9		40-130				4/4/25 14:44			
D3-NMeFOSA	62.5		10-130				4/4/25 14:44			
D5-NEtFOSA	62.3		10-130				4/4/25 14:44			
D3-NMeFOSAA	76.1		40-170				4/4/25 14:44			
D5-NEtFOSAA	72.4		25-135				4/4/25 14:44			
D7-NMeFOSE	64.8		10-130				4/4/25 14:44			
D9-NEtFOSE	61.3		10-130				4/4/25 14:44			
13C3-HFPO-DA	94.5		40-130				4/4/25 14:44			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:56	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	104	70-130								
Toluene-d8	98.1	70-130								
4-Bromofluorobenzene	86.8	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 22:54	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		26.8	15-110				3/24/25 22:54			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorohexanoic acid (PFHxA)	0.39	1.5	0.26	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanoic acid (PFOA)	0.91	1.5	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorobutanesulfonic acid (PFBS)	0.34	1.5	0.32	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1	PF-17	Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
11Cl-PF3OUDs (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	62.4		5-130				4/4/25 14:54			
13C5-PFPeA	92.4		40-130				4/4/25 14:54			
13C5-PFHxA	96.7		40-130				4/4/25 14:54			
13C4-PFHpA	96.2		40-130				4/4/25 14:54			
13C8-PFOA	94.9		40-130				4/4/25 14:54			
13C9-PFNA	99.0		40-130				4/4/25 14:54			
13C6-PFDA	89.1		40-130				4/4/25 14:54			
13C7-PFUnA	88.5		30-130				4/4/25 14:54			
13C2-PFDoA	71.3		10-130				4/4/25 14:54			
13C2-PFTeDA	66.4		10-130				4/4/25 14:54			
13C3-PFBS	96.4		40-135				4/4/25 14:54			
13C3-PFHxS	92.8		40-130				4/4/25 14:54			
13C8-PFOS	84.8		40-130				4/4/25 14:54			
13C2-4:2FTS	201 *		40-200		PF-17		4/4/25 14:54			
13C2-6:2FTS	143		40-200				4/4/25 14:54			
13C2-8:2FTS	96.0		40-300				4/4/25 14:54			
13C8-PFOA	84.9		40-130				4/4/25 14:54			
D3-NMeFOSA	58.4		10-130				4/4/25 14:54			
D5-NEtFOSA	57.1		10-130				4/4/25 14:54			
D3-NMeFOSAA	75.9		40-170				4/4/25 14:54			
D5-NEtFOSAA	70.3		25-135				4/4/25 14:54			
D7-NMeFOSE	58.3		10-130				4/4/25 14:54			
D9-NEtFOSE	53.7		10-130				4/4/25 14:54			
13C3-HFPO-DA	94.7		40-130				4/4/25 14:54			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:23	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	105	70-130							3/24/25 23:23	
Toluene-d8	97.7	70-130							3/24/25 23:23	
4-Bromofluorobenzene	87.6	70-130							3/24/25 23:23	



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:14	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		23.3		15-110				3/24/25 23:14		

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorohexanoic acid (PFHxA)	0.33	1.5	0.26	ng/L	1	PF-22, J	Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanoic acid (PFOA)	0.57	1.5	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
11Cl-PF3OUs (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	63.2		5-130				4/4/25 15:03			
13C5-PFPeA	92.4		40-130				4/4/25 15:03			
13C5-PFHxA	96.4		40-130				4/4/25 15:03			
13C4-PFHpA	95.7		40-130				4/4/25 15:03			
13C8-PFOA	92.4		40-130				4/4/25 15:03			
13C9-PFNA	89.0		40-130				4/4/25 15:03			
13C6-PFDA	87.4		40-130				4/4/25 15:03			
13C7-PFUnA	81.4		30-130				4/4/25 15:03			
13C2-PFDoA	68.4		10-130				4/4/25 15:03			
13C2-PFTeDA	65.5		10-130				4/4/25 15:03			
13C3-PFBS	98.5		40-135				4/4/25 15:03			
13C3-PFHxS	93.7		40-130				4/4/25 15:03			
13C8-PFOS	86.5		40-130				4/4/25 15:03			
13C2-4:2FTS	199		40-200				4/4/25 15:03			
13C2-6:2FTS	135		40-200				4/4/25 15:03			
13C2-8:2FTS	91.6		40-300				4/4/25 15:03			
13C8-PFOSA	83.9		40-130				4/4/25 15:03			
D3-NMeFOSA	62.1		10-130				4/4/25 15:03			
D5-NEtFOSA	62.5		10-130				4/4/25 15:03			
D3-NMeFOSAA	73.2		40-170				4/4/25 15:03			
D5-NEtFOSAA	70.2		25-135				4/4/25 15:03			
D7-NMeFOSE	61.5		10-130				4/4/25 15:03			
D9-NEtFOSE	58.3		10-130				4/4/25 15:03			
13C3-HFPO-DA	91.4		40-130				4/4/25 15:03			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
cis-1,2-Dichloroethylene	24.3	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,1-Dichloroethane	106	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,1-Dichloroethylene	0.550	2.00	0.180	µg/L	1	J	EPA 624.1	3/24/25	3/24/25 23:50	MFF
trans-1,2-Dichloroethylene	0.310	2.00	0.156	µg/L	1	L-03, J	EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,1,1-Trichloroethane	5.41	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Trichloroethylene	0.410	2.00	0.166	µg/L	1	J	EPA 624.1	3/24/25	3/24/25 23:50	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Vinyl Chloride	129	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/24/25 23:50	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	104	70-130								
Toluene-d8	97.9	70-130								
4-Bromofluorobenzene	88.6	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: 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	18	0.20	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:34	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	27.2		15-110				3/24/25 23:34			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: 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)	20	6.3	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorohexanoic acid (PFHxA)	0.81	1.6	0.27	ng/L	1	PF-23, J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroheptanoic acid (PFHpA)	0.41	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanoic acid (PFOA)	3.0	1.6	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorodecanoic acid (PFDA)	1.6	1.6	0.38	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroundecanoic acid (PFUnA)	0.51	1.6	0.50	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorododecanoic acid (PFDoA)	1.3	1.6	0.34	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorotetradecanoic acid (PFTeDA)	0.44	1.6	0.15	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanesulfonic acid (PFOS)	0.60	1.6	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
11Cl-PF3OUDs (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: 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	3.1	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	72.3		5-130				4/4/25 15:12			
13C5-PFPeA	98.6		40-130				4/4/25 15:12			
13C5-PFHxA	97.8		40-130				4/4/25 15:12			
13C4-PFHpA	96.8		40-130				4/4/25 15:12			
13C8-PFOA	101		40-130				4/4/25 15:12			
13C9-PFNA	91.8		40-130				4/4/25 15:12			
13C6-PFDA	86.6		40-130				4/4/25 15:12			
13C7-PFUnA	81.9		30-130				4/4/25 15:12			
13C2-PFDoA	67.2		10-130				4/4/25 15:12			
13C2-PFTeDA	63.4		10-130				4/4/25 15:12			
13C3-PFBS	102		40-135				4/4/25 15:12			
13C3-PFHxS	102		40-130				4/4/25 15:12			
13C8-PFOS	85.3		40-130				4/4/25 15:12			
13C2-4:2FTS	154		40-200				4/4/25 15:12			
13C2-6:2FTS	100		40-200				4/4/25 15:12			
13C2-8:2FTS	83.5		40-300				4/4/25 15:12			
13C8-PFOSA	80.1		40-130				4/4/25 15:12			
D3-NMeFOSA	65.5		10-130				4/4/25 15:12			
D5-NEtFOSA	66.6		10-130				4/4/25 15:12			
D3-NMeFOSAA	65.6		40-170				4/4/25 15:12			
D5-NEtFOSAA	60.5		25-135				4/4/25 15:12			
D7-NMeFOSE	62.5		10-130				4/4/25 15:12			
D9-NEtFOSE	55.1		10-130				4/4/25 15:12			
13C3-HFPO-DA	99.4		40-130				4/4/25 15:12			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	500	71.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Bromodichloromethane	ND	1000	92.5	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Bromoform	ND	1000	150	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Bromomethane	ND	1000	740	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Carbon Tetrachloride	ND	1000	97.4	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Chlorobenzene	ND	1000	88.7	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Chlorodibromomethane	ND	1000	64.2	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Chloroethane	ND	1000	229	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Chloroform	ND	1000	95.3	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Chloromethane	ND	1000	249	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,2-Dichlorobenzene	ND	1000	87.4	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,3-Dichlorobenzene	ND	1000	77.2	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,4-Dichlorobenzene	ND	1000	83.6	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,2-Dichloroethane	ND	1000	63.3	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
cis-1,2-Dichloroethylene	40700	500	101	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,1-Dichloroethane	ND	1000	74.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,1-Dichloroethylene	360	1000	90.2	µg/L	500	J	EPA 624.1	3/24/25	3/26/25 4:27	MFF
trans-1,2-Dichloroethylene	105	1000	78.0	µg/L	500	J	EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,2-Dichloropropane	ND	1000	84.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
cis-1,3-Dichloropropene	ND	1000	63.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
trans-1,3-Dichloropropene	ND	1000	72.0	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Ethylbenzene	ND	1000	68.4	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1000	83.5	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Methylene Chloride	ND	2500	95.1	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,1,2,2-Tetrachloroethane	ND	1000	51.2	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Tetrachloroethylene	ND	1000	83.5	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Toluene	ND	500	57.0	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,1,1-Trichloroethane	ND	1000	70.1	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
1,1,2-Trichloroethane	ND	1000	90.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Trichloroethylene	46000	1000	83.0	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Trichlorofluoromethane (Freon 11)	ND	1000	71.4	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Vinyl Chloride	1090	1000	96.8	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
m+p Xylene	ND	1000	123	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
o-Xylene	ND	500	77.7	µg/L	500		EPA 624.1	3/24/25	3/26/25 4:27	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130				3/26/25 4:27				
Toluene-d8	100	70-130				3/26/25 4:27				
4-Bromofluorobenzene	87.8	70-130				3/26/25 4:27				



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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	0.22	0.20	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:54	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	29.3		15-110				3/24/25 23:54			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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)	370	5.9	0.73	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorohexanoic acid (PFHxA)	2.0	1.5	0.26	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroheptanoic acid (PFHpA)	0.97	1.5	0.26	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanoic acid (PFOA)	5.0	1.5	0.38	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorononanoic acid (PFNA)	0.62	1.5	0.60	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorobutanesulfonic acid (PFBS)	1.5	1.5	0.32	ng/L	1	PF-23	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanesulfonic acid (PFOS)	25	1.5	0.36	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.46	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanesulfonamide (PFOSA)	0.58	1.5	0.51	ng/L	1	PF-23, J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.78	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
11Cl-PF3OUs (F53B Major)	ND	5.9	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.3	2.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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	2.9	0.39	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	29.2		5-130		PF-24		4/8/25 17:19			
13C5-PFPeA	56.6		40-130				4/8/25 17:19			
13C5-PFHxA	69.1		40-130				4/8/25 17:19			
13C4-PFHpA	77.9		40-130				4/8/25 17:19			
13C8-PFOA	67.3		40-130				4/8/25 17:19			
13C9-PFNA	64.4		40-130				4/8/25 17:19			
13C6-PFDA	63.9		40-130				4/8/25 17:19			
13C7-PFUnA	60.0		30-130				4/8/25 17:19			
13C2-PFDoA	48.3		10-130				4/8/25 17:19			
13C2-PFTeDA	34.7		10-130				4/8/25 17:19			
13C3-PFBS	64.8		40-135				4/8/25 17:19			
13C3-PFHxS	64.4		40-130				4/8/25 17:19			
13C8-PFOS	61.5		40-130				4/8/25 17:19			
13C2-4:2FTS	156		40-200				4/8/25 17:19			
13C2-6:2FTS	133		40-200				4/8/25 17:19			
13C2-8:2FTS	78.6		40-300				4/8/25 17:19			
13C8-PFOSA	54.5		40-130				4/8/25 17:19			
D3-NMeFOSA	32.4		10-130				4/8/25 17:19			
D5-NEtFOSA	27.5		10-130				4/8/25 17:19			
D3-NMeFOSAA	50.0		40-170				4/8/25 17:19			
D5-NEtFOSAA	45.0		25-135				4/8/25 17:19			
D7-NMeFOSE	29.1		10-130				4/8/25 17:19			
D9-NEtFOSE	24.5		10-130				4/8/25 17:19			
13C3-HFPO-DA	63.2		40-130				4/8/25 17:19			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
cis-1,2-Dichloroethylene	21.6	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,1-Dichloroethane	8.74	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
trans-1,2-Dichloroethylene	0.750	2.00	0.156	µg/L	1	J	EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,1,1-Trichloroethane	0.190	2.00	0.140	µg/L	1	J	EPA 624.1	3/24/25	3/26/25 3:07	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Trichloroethylene	1.44	2.00	0.166	µg/L	1	J	EPA 624.1	3/24/25	3/26/25 3:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Vinyl Chloride	8.48	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 3:07	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	103	70-130								
Toluene-d8	100	70-130								
4-Bromofluorobenzene	87.7	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: 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	2.8	0.21	0.19	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:15	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.7		15-110				3/25/25 0:15			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: 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)	24	6.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorohexanoic acid (PFHxA)	0.62	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroheptanoic acid (PFHpA)	0.34	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanoic acid (PFOA)	2.1	1.7	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanesulfonic acid (PFOS)	2.1	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.6	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.6	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.6	3.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.28	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.6	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.6	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
9Cl-PF3ONS (F53B Minor)	ND	6.6	0.97	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
11Cl-PF3OUDs (F53B Major)	ND	6.6	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.3	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: 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	3.3	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	84.8		5-130				4/4/25 15:30			
13C5-PFPeA	90.5		40-130				4/4/25 15:30			
13C5-PFHxA	92.7		40-130				4/4/25 15:30			
13C4-PFHpA	89.5		40-130				4/4/25 15:30			
13C8-PFOA	91.5		40-130				4/4/25 15:30			
13C9-PFNA	92.0		40-130				4/4/25 15:30			
13C6-PFDA	86.7		40-130				4/4/25 15:30			
13C7-PFUnA	82.8		30-130				4/4/25 15:30			
13C2-PFDoA	66.7		10-130				4/4/25 15:30			
13C2-PFTeDA	64.9		10-130				4/4/25 15:30			
13C3-PFBS	92.8		40-135				4/4/25 15:30			
13C3-PFHxS	92.0		40-130				4/4/25 15:30			
13C8-PFOS	82.6		40-130				4/4/25 15:30			
13C2-4:2FTS	163		40-200				4/4/25 15:30			
13C2-6:2FTS	106		40-200				4/4/25 15:30			
13C2-8:2FTS	77.6		40-300				4/4/25 15:30			
13C8-PFOSA	79.0		40-130				4/4/25 15:30			
D3-NMeFOSA	61.7		10-130				4/4/25 15:30			
D5-NEtFOSA	62.8		10-130				4/4/25 15:30			
D3-NMeFOSAA	67.8		40-170				4/4/25 15:30			
D5-NEtFOSAA	65.0		25-135				4/4/25 15:30			
D7-NMeFOSE	63.4		10-130				4/4/25 15:30			
D9-NEtFOSE	60.5		10-130				4/4/25 15:30			
13C3-HFPO-DA	88.5		40-130				4/4/25 15:30			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: Water

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	2.00	0.287	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Bromodichloromethane	ND	4.00	0.370	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Bromoform	ND	4.00	0.600	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Bromomethane	ND	4.00	2.96	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Carbon Tetrachloride	ND	4.00	0.389	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Chlorobenzene	ND	4.00	0.355	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Chlorodibromomethane	ND	4.00	0.257	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Chloroethane	ND	4.00	0.916	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Chloroform	ND	4.00	0.381	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Chloromethane	ND	4.00	0.994	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,2-Dichlorobenzene	ND	4.00	0.349	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,3-Dichlorobenzene	ND	4.00	0.309	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,4-Dichlorobenzene	ND	4.00	0.334	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,2-Dichloroethane	ND	4.00	0.253	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
cis-1,2-Dichloroethylene	133	2.00	0.405	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,1-Dichloroethane	1.72	4.00	0.299	µg/L	2	J	EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,1-Dichloroethylene	1.46	4.00	0.361	µg/L	2	J	EPA 624.1	3/24/25	3/26/25 4:00	MFF
trans-1,2-Dichloroethylene	1.16	4.00	0.312	µg/L	2	J	EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,2-Dichloropropane	ND	4.00	0.339	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
cis-1,3-Dichloropropene	ND	4.00	0.255	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
trans-1,3-Dichloropropene	ND	4.00	0.288	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Ethylbenzene	ND	4.00	0.274	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	4.00	0.334	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Methylene Chloride	ND	10.0	0.380	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,1,2,2-Tetrachloroethane	ND	4.00	0.205	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Tetrachloroethylene	ND	4.00	0.334	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Toluene	ND	2.00	0.228	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,1,1-Trichloroethane	ND	4.00	0.280	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
1,1,2-Trichloroethane	ND	4.00	0.363	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Trichloroethylene	10.9	4.00	0.332	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Trichlorofluoromethane (Freon 11)	ND	4.00	0.286	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Vinyl Chloride	51.0	4.00	0.387	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
m+p Xylene	ND	4.00	0.492	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
o-Xylene	ND	2.00	0.311	µg/L	2		EPA 624.1	3/24/25	3/26/25 4:00	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	103	70-130							3/26/25 4:00	
Toluene-d8	101	70-130							3/26/25 4:00	
4-Bromofluorobenzene	90.2	70-130							3/26/25 4:00	



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:35	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.7		15-110				3/25/25 0:35			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: 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)	170	6.2	0.77	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorohexanoic acid (PFHxA)	2.7	1.5	0.27	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroheptanoic acid (PFHpA)	0.92	1.5	0.27	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanoic acid (PFOA)	4.9	1.5	0.40	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorononanoic acid (PFNA)	0.74	1.5	0.63	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorobutanesulfonic acid (PFBS)	1.0	1.5	0.33	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorohexanesulfonic acid (PFHxS)	0.96	1.5	0.60	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanesulfonic acid (PFOS)	9.9	1.5	0.38	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.90	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
11Cl-PF3OUDs (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: 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	3.1	0.41	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	64.8		5-130		PF-24		4/8/25 17:28			
13C5-PFPeA	51.3		40-130				4/8/25 17:28			
13C5-PFHxA	66.5		40-130				4/8/25 17:28			
13C4-PFHpA	80.4		40-130				4/8/25 17:28			
13C8-PFOA	63.3		40-130				4/8/25 17:28			
13C9-PFNA	66.2		40-130				4/8/25 17:28			
13C6-PFDA	60.8		40-130				4/8/25 17:28			
13C7-PFUnA	59.9		30-130				4/8/25 17:28			
13C2-PFDoA	44.6		10-130				4/8/25 17:28			
13C2-PFTeDA	25.3		10-130				4/8/25 17:28			
13C3-PFBS	57.7		40-135				4/8/25 17:28			
13C3-PFHxS	63.1		40-130				4/8/25 17:28			
13C8-PFOS	62.5		40-130				4/8/25 17:28			
13C2-4:2FTS	151		40-200				4/8/25 17:28			
13C2-6:2FTS	148		40-200				4/8/25 17:28			
13C2-8:2FTS	108		40-300				4/8/25 17:28			
13C8-PFOSA	55.9		40-130				4/8/25 17:28			
D3-NMeFOSA	30.0		10-130				4/8/25 17:28			
D5-NEtFOSA	25.1		10-130				4/8/25 17:28			
D3-NMeFOSAA	57.3		40-170				4/8/25 17:28			
D5-NEtFOSAA	53.8		25-135				4/8/25 17:28			
D7-NMeFOSE	15.7		10-130				4/8/25 17:28			
D9-NEtFOSE	10.7		10-130				4/8/25 17:28			
13C3-HFPO-DA	63.1		40-130				4/8/25 17:28			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:16	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	106	70-130							3/25/25 0:16	
Toluene-d8	99.3	70-130							3/25/25 0:16	
4-Bromofluorobenzene	86.2	70-130							3/25/25 0:16	



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:56	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.6		15-110				3/25/25 0:56			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: 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	6.9	0.87	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoropentanoic acid (PFPeA)	ND	3.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanoic acid (PFOA)	ND	1.7	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.17	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.9	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.9	3.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.70	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.9	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
9Cl-PF3ONS (F53B Minor)	ND	6.9	1.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
11Cl-PF3OUs (F53B Major)	ND	6.9	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.7	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	43	9.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.5	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: 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	3.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.5	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	79.3		5-130				4/4/25 15:49			
13C5-PFPeA	97.4		40-130				4/4/25 15:49			
13C5-PFHxA	101		40-130				4/4/25 15:49			
13C4-PFHpA	100		40-130				4/4/25 15:49			
13C8-PFOA	99.6		40-130				4/4/25 15:49			
13C9-PFNA	97.8		40-130				4/4/25 15:49			
13C6-PFDA	90.5		40-130				4/4/25 15:49			
13C7-PFUnA	82.7		30-130				4/4/25 15:49			
13C2-PFDoA	69.8		10-130				4/4/25 15:49			
13C2-PFTeDA	66.1		10-130				4/4/25 15:49			
13C3-PFBS	99.9		40-135				4/4/25 15:49			
13C3-PFHxS	95.5		40-130				4/4/25 15:49			
13C8-PFOS	89.6		40-130				4/4/25 15:49			
13C2-4:2FTS	132		40-200				4/4/25 15:49			
13C2-6:2FTS	92.0		40-200				4/4/25 15:49			
13C2-8:2FTS	79.0		40-300				4/4/25 15:49			
13C8-PFOSA	89.8		40-130				4/4/25 15:49			
D3-NMeFOSA	66.3		10-130				4/4/25 15:49			
D5-NEtFOSA	64.4		10-130				4/4/25 15:49			
D3-NMeFOSAA	70.7		40-170				4/4/25 15:49			
D5-NEtFOSAA	66.5		25-135				4/4/25 15:49			
D7-NMeFOSE	63.3		10-130				4/4/25 15:49			
D9-NEtFOSE	59.2		10-130				4/4/25 15:49			
13C3-HFPO-DA	99.6		40-130				4/4/25 15:49			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025

Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Trichloroethylene	0.300	2.00	0.166	µg/L	1	J	EPA 624.1	3/24/25	3/25/25 0:43	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/25/25 0:43	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	103	70-130							3/25/25 0:43	
Toluene-d8	97.6	70-130							3/25/25 0:43	
4-Bromofluorobenzene	91.4	70-130							3/25/25 0:43	



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025

Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/25/25 1:16	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		25.9	15-110				3/25/25 1:16			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025

Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: 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	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.39	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
11Cl-PF3OUDs (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025

Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	88.2		5-130				4/4/25 15:58			
13C5-PFPeA	89.9		40-130				4/4/25 15:58			
13C5-PFHxA	96.2		40-130				4/4/25 15:58			
13C4-PFHpA	95.0		40-130				4/4/25 15:58			
13C8-PFOA	88.9		40-130				4/4/25 15:58			
13C9-PFNA	92.2		40-130				4/4/25 15:58			
13C6-PFDA	83.0		40-130				4/4/25 15:58			
13C7-PFUnA	82.8		30-130				4/4/25 15:58			
13C2-PFDoA	73.0		10-130				4/4/25 15:58			
13C2-PFTeDA	66.3		10-130				4/4/25 15:58			
13C3-PFBS	95.1		40-135				4/4/25 15:58			
13C3-PFHxS	97.5		40-130				4/4/25 15:58			
13C8-PFOS	84.8		40-130				4/4/25 15:58			
13C2-4:2FTS	152		40-200				4/4/25 15:58			
13C2-6:2FTS	103		40-200				4/4/25 15:58			
13C2-8:2FTS	81.0		40-300				4/4/25 15:58			
13C8-PFOSA	83.3		40-130				4/4/25 15:58			
D3-NMeFOSA	61.0		10-130				4/4/25 15:58			
D5-NEtFOSA	62.9		10-130				4/4/25 15:58			
D3-NMeFOSAA	68.6		40-170				4/4/25 15:58			
D5-NEtFOSAA	63.6		25-135				4/4/25 15:58			
D7-NMeFOSE	64.6		10-130				4/4/25 15:58			
D9-NEtFOSE	60.2		10-130				4/4/25 15:58			
13C3-HFPO-DA	89.5		40-130				4/4/25 15:58			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/25/25 1:10	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	100	70-130							3/25/25 1:10	
Toluene-d8	99.8	70-130							3/25/25 1:10	
4-Bromofluorobenzene	88.9	70-130							3/25/25 1:10	



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 13:39	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		27.4		15-110				3/26/25 13:39		

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	17	6.5	0.81	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoropentanoic acid (PFPeA)	ND	3.2	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorohexanoic acid (PFHxA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroheptanoic acid (PFHpA)	0.41	1.6	0.29	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanoic acid (PFOA)	1.2	1.6	0.42	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.63	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanesulfonic acid (PFOS)	0.59	1.6	0.40	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
11Cl-PF3OUs (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: 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	3.2	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	64.7		5-130		PF-24		4/8/25 17:37			
13C5-PFPeA	48.2		40-130				4/8/25 17:37			
13C5-PFHxA	64.4		40-130				4/8/25 17:37			
13C4-PFHpA	72.6		40-130				4/8/25 17:37			
13C8-PFOA	61.4		40-130				4/8/25 17:37			
13C9-PFNA	61.8		40-130				4/8/25 17:37			
13C6-PFDA	60.8		40-130				4/8/25 17:37			
13C7-PFUnA	62.3		30-130				4/8/25 17:37			
13C2-PFDoA	49.9		10-130				4/8/25 17:37			
13C2-PFTeDA	33.2		10-130				4/8/25 17:37			
13C3-PFBS	59.4		40-135				4/8/25 17:37			
13C3-PFHxS	63.1		40-130				4/8/25 17:37			
13C8-PFOS	59.3		40-130				4/8/25 17:37			
13C2-4:2FTS	144		40-200				4/8/25 17:37			
13C2-6:2FTS	119		40-200				4/8/25 17:37			
13C2-8:2FTS	81.1		40-300				4/8/25 17:37			
13C8-PFOSA	53.4		40-130				4/8/25 17:37			
D3-NMeFOSA	38.9		10-130				4/8/25 17:37			
D5-NEtFOSA	36.1		10-130				4/8/25 17:37			
D3-NMeFOSAA	48.7		40-170				4/8/25 17:37			
D5-NEtFOSAA	48.4		25-135				4/8/25 17:37			
D7-NMeFOSE	23.6		10-130				4/8/25 17:37			
D9-NEtFOSE	16.3		10-130				4/8/25 17:37			
13C3-HFPO-DA	57.0		40-130				4/8/25 17:37			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-15 03192025

Sampled: 3/19/2025 09:00

Sample ID: 25C1250-11

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	10.0	1.44	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Bromodichloromethane	ND	20.0	1.85	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Bromoform	ND	20.0	3.00	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Bromomethane	ND	20.0	14.8	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Carbon Tetrachloride	ND	20.0	1.95	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Chlorobenzene	ND	20.0	1.77	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Chlorodibromomethane	ND	20.0	1.28	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Chloroethane	ND	20.0	4.58	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Chloroform	ND	20.0	1.91	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Chloromethane	ND	20.0	4.97	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,2-Dichlorobenzene	ND	20.0	1.75	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,3-Dichlorobenzene	ND	20.0	1.54	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,4-Dichlorobenzene	ND	20.0	1.67	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,2-Dichloroethane	ND	20.0	1.27	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
cis-1,2-Dichloroethylene	54.3	10.0	2.02	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,1-Dichloroethane	ND	20.0	1.50	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,1-Dichloroethylene	ND	20.0	1.80	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
trans-1,2-Dichloroethylene	ND	20.0	1.56	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,2-Dichloropropane	ND	20.0	1.70	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
cis-1,3-Dichloropropene	ND	20.0	1.28	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
trans-1,3-Dichloropropene	ND	20.0	1.44	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Ethylbenzene	ND	20.0	1.37	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	20.0	1.67	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Methylene Chloride	ND	50.0	1.90	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,1,2,2-Tetrachloroethane	ND	20.0	1.02	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Tetrachloroethylene	ND	20.0	1.67	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Toluene	ND	10.0	1.14	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,1,1-Trichloroethane	4.90	20.0	1.40	µg/L	10	J	EPA 624.1	3/24/25	3/26/25 4:54	MFF
1,1,2-Trichloroethane	ND	20.0	1.82	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Trichloroethylene	671	20.0	1.66	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Trichlorofluoromethane (Freon 11)	ND	20.0	1.43	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Vinyl Chloride	ND	20.0	1.94	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
m+p Xylene	ND	20.0	2.46	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
o-Xylene	ND	10.0	1.55	µg/L	10		EPA 624.1	3/24/25	3/26/25 4:54	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130								
Toluene-d8	102	70-130								
4-Bromofluorobenzene	90.3	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-15 03192025

Sampled: 3/19/2025 09:00

Sample ID: 25C1250-11

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 13:58	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		29.4		15-110				3/26/25 13:58		

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-15 03192025

Sampled: 3/19/2025 09:00

Sample ID: 25C1250-11

Sample Matrix: 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)	2.5	6.5	0.81	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorohexanoic acid (PFHxA)	0.41	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanoic acid (PFOA)	0.70	1.6	0.42	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanesulfonic acid (PFOS)	0.47	1.6	0.40	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
11Cl-PF3OUDs (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-15 03192025

Sampled: 3/19/2025 09:00

Sample ID: 25C1250-11

Sample Matrix: 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	3.3	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	87.6		5-130				4/4/25 16:47			
13C5-PFPeA	86.8		40-130				4/4/25 16:47			
13C5-PFHxA	85.9		40-130				4/4/25 16:47			
13C4-PFHpA	85.5		40-130				4/4/25 16:47			
13C8-PFOA	91.8		40-130				4/4/25 16:47			
13C9-PFNA	87.6		40-130				4/4/25 16:47			
13C6-PFDA	79.4		40-130				4/4/25 16:47			
13C7-PFUnA	78.8		30-130				4/4/25 16:47			
13C2-PFDoA	68.2		10-130				4/4/25 16:47			
13C2-PFTeDA	63.8		10-130				4/4/25 16:47			
13C3-PFBS	81.7		40-135				4/4/25 16:47			
13C3-PFHxS	82.9		40-130				4/4/25 16:47			
13C8-PFOS	77.3		40-130				4/4/25 16:47			
13C2-4:2FTS	77.6		40-200				4/4/25 16:47			
13C2-6:2FTS	68.0		40-200				4/4/25 16:47			
13C2-8:2FTS	68.1		40-300				4/4/25 16:47			
13C8-PFOSA	85.5		40-130				4/4/25 16:47			
D3-NMeFOSA	63.6		10-130				4/4/25 16:47			
D5-NEtFOSA	63.6		10-130				4/4/25 16:47			
D3-NMeFOSAA	55.4		40-170				4/4/25 16:47			
D5-NEtFOSAA	49.6		25-135				4/4/25 16:47			
D7-NMeFOSE	65.6		10-130				4/4/25 16:47			
D9-NEtFOSE	61.0		10-130				4/4/25 16:47			
13C3-HFPO-DA	81.4		40-130				4/4/25 16:47			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025

Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	25.0	3.59	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Bromodichloromethane	ND	50.0	4.63	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Bromoform	ND	50.0	7.50	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Bromomethane	ND	50.0	37.0	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Carbon Tetrachloride	ND	50.0	4.87	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Chlorobenzene	ND	50.0	4.44	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Chlorodibromomethane	ND	50.0	3.21	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Chloroethane	ND	50.0	11.4	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Chloroform	ND	50.0	4.77	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Chloromethane	ND	50.0	12.4	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,2-Dichlorobenzene	ND	50.0	4.37	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,3-Dichlorobenzene	ND	50.0	3.86	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,4-Dichlorobenzene	ND	50.0	4.18	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,2-Dichloroethane	ND	50.0	3.17	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
cis-1,2-Dichloroethylene	2860	25.0	5.06	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,1-Dichloroethane	11.2	50.0	3.74	µg/L	25	J	EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,1-Dichloroethylene	21.2	50.0	4.51	µg/L	25	J	EPA 624.1	3/24/25	3/26/25 5:21	MFF
trans-1,2-Dichloroethylene	13.0	50.0	3.90	µg/L	25	J	EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,2-Dichloropropane	ND	50.0	4.24	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
cis-1,3-Dichloropropene	ND	50.0	3.19	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
trans-1,3-Dichloropropene	ND	50.0	3.60	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Ethylbenzene	ND	50.0	3.42	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	50.0	4.18	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Methylene Chloride	ND	125	4.75	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,1,2,2-Tetrachloroethane	ND	50.0	2.56	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Tetrachloroethylene	ND	50.0	4.17	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Toluene	ND	25.0	2.85	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,1,1-Trichloroethane	ND	50.0	3.51	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
1,1,2-Trichloroethane	ND	50.0	4.54	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Trichloroethylene	1310	50.0	4.15	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Trichlorofluoromethane (Freon 11)	ND	50.0	3.57	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Vinyl Chloride	232	50.0	4.84	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
m+p Xylene	ND	50.0	6.15	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
o-Xylene	ND	25.0	3.89	µg/L	25		EPA 624.1	3/24/25	3/26/25 5:21	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130				3/26/25 5:21				
Toluene-d8	100	70-130				3/26/25 5:21				
4-Bromofluorobenzene	88.8	70-130				3/26/25 5:21				



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025

Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: 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	1.9	0.22	0.20	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:18	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		29.3	15-110				3/26/25 14:18			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025

Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: 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)	8.4	7.0	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoropentanoic acid (PFPeA)	ND	3.5	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorohexanoic acid (PFHxA)	0.53	1.8	0.31	ng/L	1	PF-22, J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroheptanoic acid (PFHpA)	0.32	1.8	0.31	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanoic acid (PFOA)	0.96	1.8	0.46	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorononanoic acid (PFNA)	ND	1.8	0.72	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorodecanoic acid (PFDA)	ND	1.8	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.8	0.17	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.93	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanesulfonic acid (PFOS)	0.80	1.8	0.44	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.8	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.8	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.8	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	7.0	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	7.0	3.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	7.0	3.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.8	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.8	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-MeFOSAA (NMeFOSAA)	ND	1.8	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	18	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	18	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	7.0	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	7.0	0.93	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
9Cl-PF3ONS (F53B Minor)	ND	7.0	1.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
11Cl-PF3OUDs (F53B Major)	ND	7.0	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.8	2.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	7.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	44	9.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.5	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025

Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: 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	3.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.5	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	91.5		5-130				4/4/25 16:57			
13C5-PFPeA	90.8		40-130				4/4/25 16:57			
13C5-PFHxA	92.6		40-130				4/4/25 16:57			
13C4-PFHpA	91.1		40-130				4/4/25 16:57			
13C8-PFOA	94.1		40-130				4/4/25 16:57			
13C9-PFNA	89.0		40-130				4/4/25 16:57			
13C6-PFDA	79.8		40-130				4/4/25 16:57			
13C7-PFUnA	74.3		30-130				4/4/25 16:57			
13C2-PFDoA	65.5		10-130				4/4/25 16:57			
13C2-PFTeDA	63.8		10-130				4/4/25 16:57			
13C3-PFBS	96.3		40-135				4/4/25 16:57			
13C3-PFHxS	93.3		40-130				4/4/25 16:57			
13C8-PFOS	78.7		40-130				4/4/25 16:57			
13C2-4:2FTS	152		40-200				4/4/25 16:57			
13C2-6:2FTS	92.9		40-200				4/4/25 16:57			
13C2-8:2FTS	74.1		40-300				4/4/25 16:57			
13C8-PFOSA	76.6		40-130				4/4/25 16:57			
D3-NMeFOSA	58.0		10-130				4/4/25 16:57			
D5-NEtFOSA	59.6		10-130				4/4/25 16:57			
D3-NMeFOSAA	65.7		40-170				4/4/25 16:57			
D5-NEtFOSAA	59.7		25-135				4/4/25 16:57			
D7-NMeFOSE	61.9		10-130				4/4/25 16:57			
D9-NEtFOSE	58.0		10-130				4/4/25 16:57			
13C3-HFPO-DA	87.0		40-130				4/4/25 16:57			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 0:53	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	105	70-130								
Toluene-d8	100	70-130								
4-Bromofluorobenzene	89.2	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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	0.22	0.20	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:38	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		27.6	15-110				3/26/25 14:38			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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)	34	6.7	0.84	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorohexanoic acid (PFHxA)	0.83	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroheptanoic acid (PFHpA)	0.80	1.7	0.30	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanoic acid (PFOA)	1.1	1.7	0.44	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorononanoic acid (PFNA)	0.80	1.7	0.69	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanesulfonic acid (PFOS)	0.86	1.7	0.42	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.76	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanesulfonamide (PFOSA)	0.76	1.7	0.59	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.99	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
11Cl-PF3OUDS (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	42	7.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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	3.4	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	88.4		5-130				4/4/25 17:06			
13C5-PFPeA	81.8		40-130				4/4/25 17:06			
13C5-PFHxA	89.3		40-130				4/4/25 17:06			
13C4-PFHpA	89.0		40-130				4/4/25 17:06			
13C8-PFOA	87.3		40-130				4/4/25 17:06			
13C9-PFNA	88.4		40-130				4/4/25 17:06			
13C6-PFDA	88.8		40-130				4/4/25 17:06			
13C7-PFUnA	84.5		30-130				4/4/25 17:06			
13C2-PFDoA	72.8		10-130				4/4/25 17:06			
13C2-PFTeDA	60.8		10-130				4/4/25 17:06			
13C3-PFBS	84.8		40-135				4/4/25 17:06			
13C3-PFHxS	88.8		40-130				4/4/25 17:06			
13C8-PFOS	84.1		40-130				4/4/25 17:06			
13C2-4:2FTS	200		40-200				4/4/25 17:06			
13C2-6:2FTS	147		40-200				4/4/25 17:06			
13C2-8:2FTS	103		40-300				4/4/25 17:06			
13C8-PFOSA	80.6		40-130				4/4/25 17:06			
D3-NMeFOSA	61.2		10-130				4/4/25 17:06			
D5-NEtFOSA	60.2		10-130				4/4/25 17:06			
D3-NMeFOSAA	78.1		40-170				4/4/25 17:06			
D5-NEtFOSAA	74.4		25-135				4/4/25 17:06			
D7-NMeFOSE	63.9		10-130				4/4/25 17:06			
D9-NEtFOSE	58.4		10-130				4/4/25 17:06			
13C3-HFPO-DA	82.3		40-130				4/4/25 17:06			

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:20	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	102	70-130				3/26/25 1:20				
Toluene-d8	102	70-130				3/26/25 1:20				
4-Bromofluorobenzene	81.9	70-130				3/26/25 1:20				



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: 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	0.34	0.20	0.18	µg/L	1		SW-846 8270E	3/25/25	3/26/25 23:33	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		24.8		15-110				3/26/25 23:33		

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: 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)	87	6.3	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorohexanoic acid (PFHxA)	0.74	1.6	0.27	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroheptanoic acid (PFHpA)	0.69	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanoic acid (PFOA)	2.5	1.6	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorobutanesulfonic acid (PFBS)	0.48	1.6	0.34	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorohexanesulfonic acid (PFHxS)	0.63	1.6	0.61	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanesulfonic acid (PFOS)	1.1	1.6	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1	PF-17	Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.91	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
11Cl-PF3OUDs (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: 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	3.1	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	38.1		5-130		PF-24		4/4/25 17:15			
13C5-PFPeA	78.1		40-130				4/4/25 17:15			
13C5-PFHxA	89.3		40-130				4/4/25 17:15			
13C4-PFHpA	97.0		40-130				4/4/25 17:15			
13C8-PFOA	90.3		40-130				4/4/25 17:15			
13C9-PFNA	90.6		40-130				4/4/25 17:15			
13C6-PFDA	93.4		40-130				4/4/25 17:15			
13C7-PFUnA	94.5		30-130				4/4/25 17:15			
13C2-PFDoA	86.9		10-130				4/4/25 17:15			
13C2-PFTeDA	75.2		10-130				4/4/25 17:15			
13C3-PFBS	83.6		40-135				4/4/25 17:15			
13C3-PFHxS	90.5		40-130				4/4/25 17:15			
13C8-PFOS	86.6		40-130				4/4/25 17:15			
13C2-4:2FTS	213 *		40-200		PF-17		4/4/25 17:15			
13C2-6:2FTS	177		40-200				4/4/25 17:15			
13C2-8:2FTS	123		40-300				4/4/25 17:15			
13C8-PFOSA	81.4		40-130				4/4/25 17:15			
D3-NMeFOSA	62.3		10-130				4/4/25 17:15			
D5-NEtFOSA	62.8		10-130				4/4/25 17:15			
D3-NMeFOSAA	77.7		40-170				4/4/25 17:15			
D5-NEtFOSAA	76.1		25-135				4/4/25 17:15			
D7-NMeFOSE	66.9		10-130				4/4/25 17:15			
D9-NEtFOSE	62.4		10-130				4/4/25 17:15			
13C3-HFPO-DA	79.5		40-130				4/4/25 17:15			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 1:46	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130				3/26/25 1:46				
Toluene-d8	102	70-130				3/26/25 1:46				
4-Bromofluorobenzene	89.3	70-130				3/26/25 1:46				



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:57	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		25.7	15-110				3/26/25 14:57			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
11Cl-PF3OUdS (F53B Major)	ND	5.9	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	2.9	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	76.9		5-130				4/4/25 17:24			
13C5-PFPeA	98.4		40-130				4/4/25 17:24			
13C5-PFHxA	96.5		40-130				4/4/25 17:24			
13C4-PFHpA	95.8		40-130				4/4/25 17:24			
13C8-PFOA	92.1		40-130				4/4/25 17:24			
13C9-PFNA	92.7		40-130				4/4/25 17:24			
13C6-PFDA	94.5		40-130				4/4/25 17:24			
13C7-PFUnA	95.5		30-130				4/4/25 17:24			
13C2-PFDoA	85.6		10-130				4/4/25 17:24			
13C2-PFTeDA	86.0		10-130				4/4/25 17:24			
13C3-PFBS	96.5		40-135				4/4/25 17:24			
13C3-PFHxS	98.7		40-130				4/4/25 17:24			
13C8-PFOS	92.6		40-130				4/4/25 17:24			
13C2-4:2FTS	96.7		40-200				4/4/25 17:24			
13C2-6:2FTS	103		40-200				4/4/25 17:24			
13C2-8:2FTS	105		40-300				4/4/25 17:24			
13C8-PFOSA	89.4		40-130				4/4/25 17:24			
D3-NMeFOSA	73.6		10-130				4/4/25 17:24			
D5-NEtFOSA	76.6		10-130				4/4/25 17:24			
D3-NMeFOSAA	76.0		40-170				4/4/25 17:24			
D5-NEtFOSAA	74.5		25-135				4/4/25 17:24			
D7-NMeFOSE	77.2		10-130				4/4/25 17:24			
D9-NEtFOSE	72.5		10-130				4/4/25 17:24			
13C3-HFPO-DA	100		40-130				4/4/25 17:24			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: TRIP BLANK

Sampled: 3/19/2025 00:00

Sample ID: 25C1250-16

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/24/25 22:30	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	105	70-130				3/24/25 22:30				
Toluene-d8	100	70-130				3/24/25 22:30				
4-Bromofluorobenzene	90.3	70-130				3/24/25 22:30				

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/24/25	3/26/25 2:13	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	102	70-130								
Toluene-d8	99.7	70-130								
4-Bromofluorobenzene	92.8	70-130								



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:17	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.7		15-110				3/26/25 15:17			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: 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)	4.0	6.1	0.76	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.81	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.1	0.81	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
9Cl-PF3ONS (F53B Minor)	ND	6.1	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
11Cl-PF3OUDs (F53B Major)	ND	6.1	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.6	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	38	6.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	8.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: 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	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	85.3		5-130				4/4/25 17:33			
13C5-PFPeA	91.0		40-130				4/4/25 17:33			
13C5-PFHxA	91.3		40-130				4/4/25 17:33			
13C4-PFHpA	87.6		40-130				4/4/25 17:33			
13C8-PFOA	87.0		40-130				4/4/25 17:33			
13C9-PFNA	89.2		40-130				4/4/25 17:33			
13C6-PFDA	81.6		40-130				4/4/25 17:33			
13C7-PFUnA	78.1		30-130				4/4/25 17:33			
13C2-PFDoA	73.2		10-130				4/4/25 17:33			
13C2-PFTeDA	70.8		10-130				4/4/25 17:33			
13C3-PFBS	90.6		40-135				4/4/25 17:33			
13C3-PFHxS	88.7		40-130				4/4/25 17:33			
13C8-PFOS	80.8		40-130				4/4/25 17:33			
13C2-4:2FTS	90.5		40-200				4/4/25 17:33			
13C2-6:2FTS	86.5		40-200				4/4/25 17:33			
13C2-8:2FTS	87.6		40-300				4/4/25 17:33			
13C8-PFOSA	78.9		40-130				4/4/25 17:33			
D3-NMeFOSA	60.5		10-130				4/4/25 17:33			
D5-NEtFOSA	62.8		10-130				4/4/25 17:33			
D3-NMeFOSAA	63.9		40-170				4/4/25 17:33			
D5-NEtFOSAA	59.6		25-135				4/4/25 17:33			
D7-NMeFOSE	62.5		10-130				4/4/25 17:33			
D9-NEtFOSE	59.9		10-130				4/4/25 17:33			
13C3-HFPO-DA	89.7		40-130				4/4/25 17:33			

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:**Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-01 [MW-9 03182025]	B401488	473	4.00	03/24/25
25C1250-02 [MW-10 03182025]	B401488	540	4.00	03/24/25
25C1250-03 [DUP-1 03182025]	B401488	539	4.00	03/24/25
25C1250-04 [MW-6 03182025]	B401488	508	4.00	03/24/25
25C1250-06 [MW-5 03182025]	B401488	483	4.00	03/24/25
25C1250-08 [MW-4 03182025]	B401488	462	4.00	03/24/25
25C1250-09 [MW-11 03182025]	B401488	538	4.00	03/24/25
25C1250-11 [MW-15 03192025]	B401488	492	4.00	03/24/25
25C1250-12 [MW-16 03192025]	B401488	455	4.00	03/24/25
25C1250-13 [MW-13 03192025]	B401488	474	4.00	03/24/25
25C1250-14 [MW-12 03192025]	B401488	512	4.00	03/24/25
25C1250-15 [BR-1 03192025]	B401488	544	4.00	03/24/25
25C1250-17 [BR-2 03192025]	B401488	525	4.00	03/24/25

Prep Method:EPA 1633 **Analytical Method:**Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-05RE1 [MW-17 03182025]	B401951	545	4.00	04/07/25
25C1250-07RE1 [MW-18 03182025]	B401951	519	4.00	04/07/25
25C1250-10RE1 [MW-3 03182025]	B401951	494	4.00	04/07/25

Prep Method:SW-846 5030B **Analytical Method:**EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-02 [MW-10 03182025]	B401423	5	5.00	03/24/25
25C1250-03 [DUP-1 03182025]	B401423	5	5.00	03/24/25
25C1250-04 [MW-6 03182025]	B401423	5	5.00	03/24/25
25C1250-08 [MW-4 03182025]	B401423	5	5.00	03/24/25
25C1250-09 [MW-11 03182025]	B401423	5	5.00	03/24/25
25C1250-10 [MW-3 03182025]	B401423	5	5.00	03/24/25
25C1250-16 [TRIP BLANK]	B401423	5	5.00	03/24/25

Prep Method:SW-846 5030B **Analytical Method:**EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-01 [MW-9 03182025]	B401500	5	5.00	03/24/25
25C1250-05 [MW-17 03182025]	B401500	0.01	5.00	03/24/25
25C1250-06 [MW-5 03182025]	B401500	5	5.00	03/24/25
25C1250-07 [MW-18 03182025]	B401500	2.5	5.00	03/24/25
25C1250-11 [MW-15 03192025]	B401500	0.5	5.00	03/24/25
25C1250-12 [MW-16 03192025]	B401500	0.2	5.00	03/24/25
25C1250-13 [MW-13 03192025]	B401500	5	5.00	03/24/25
25C1250-14 [MW-12 03192025]	B401500	5	5.00	03/24/25
25C1250-15 [BR-1 03192025]	B401500	5	5.00	03/24/25
25C1250-17 [BR-2 03192025]	B401500	5	5.00	03/24/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-01 [MW-9 03182025]	B401277	960	1.00	03/20/25

Sample Extraction Data**Prep Method:SW-846 3510C Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-02 [MW-10 03182025]	B401277	1000	1.00	03/20/25
25C1250-03 [DUP-1 03182025]	B401277	1000	1.00	03/20/25
25C1250-04 [MW-6 03182025]	B401277	980	1.00	03/20/25
25C1250-05 [MW-17 03182025]	B401277	1000	1.00	03/20/25
25C1250-06 [MW-5 03182025]	B401277	940	1.00	03/20/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-07 [MW-18 03182025]	B401278	1010	1.00	03/20/25
25C1250-08 [MW-4 03182025]	B401278	960	1.00	03/20/25
25C1250-09 [MW-11 03182025]	B401278	1010	1.00	03/20/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-10 [MW-3 03182025]	B401474	990	1.00	03/24/25
25C1250-11 [MW-15 03192025]	B401474	940	1.00	03/24/25
25C1250-12 [MW-16 03192025]	B401474	920	1.00	03/24/25
25C1250-13 [MW-13 03192025]	B401474	890	1.00	03/24/25
25C1250-15 [BR-1 03192025]	B401474	1010	1.00	03/24/25
25C1250-17 [BR-2 03192025]	B401474	1020	1.00	03/24/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1250-14 [MW-12 03192025]	B401567	1010	1.00	03/25/25

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

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

Batch B401423 - SW-846 5030B
Blank (B401423-BLK1)

Prepared & Analyzed: 03/24/25

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							L-03
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.00		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	21.3		µg/L	25.00		85.3	70-130			

LCS (B401423-BS1)

Prepared & Analyzed: 03/24/25

Benzene	16	1.00	µg/L	20.00		79.6	65-135			
Bromodichloromethane	17	2.00	µg/L	20.00		85.8	65-135			
Bromoform	15	2.00	µg/L	20.00		76.4	70-130			
Bromomethane	7.4	2.00	µg/L	20.00		36.9	15-185			
Carbon Tetrachloride	16	2.00	µg/L	20.00		80.3	70-130			
Chlorobenzene	17	2.00	µg/L	20.00		86.4	65-135			
Chlorodibromomethane	16	2.00	µg/L	20.00		82.3	70-135			
Chloroethane	13	2.00	µg/L	20.00		67.4	40-160			
Chloroform	17	2.00	µg/L	20.00		84.4	70-135			
Chloromethane	9.9	2.00	µg/L	20.00		49.4	20-205			
1,2-Dichlorobenzene	17	2.00	µg/L	20.00		86.3	65-135			
1,3-Dichlorobenzene	17	2.00	µg/L	20.00		86.2	70-130			
1,4-Dichlorobenzene	16	2.00	µg/L	20.00		82.2	65-135			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401423 - SW-846 5030B										
LCS (B401423-BS1)				Prepared & Analyzed: 03/24/25						
1,2-Dichloroethane	18	2.00	µg/L	20.00		88.6	70-130			
cis-1,2-Dichloroethylene	17	1.00	µg/L	20.00		83.9	70-130			
1,1-Dichloroethane	16	2.00	µg/L	20.00		79.2	70-130			
1,1-Dichloroethylene	15	2.00	µg/L	20.00		73.0	50-150			
trans-1,2-Dichloroethylene	13	2.00	µg/L	20.00		66.8	* 70-130			L-03
1,2-Dichloropropane	17	2.00	µg/L	20.00		84.0	35-165			
cis-1,3-Dichloropropene	16	2.00	µg/L	20.00		82.3	25-175			
trans-1,3-Dichloropropene	18	2.00	µg/L	20.00		88.6	50-150			
Ethylbenzene	17	2.00	µg/L	20.00		84.6	60-140			
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00		77.3	70-130			
Methylene Chloride	15	5.00	µg/L	20.00		72.8	60-140			
1,1,2,2-Tetrachloroethane	18	2.00	µg/L	20.00		89.2	60-140			
Tetrachloroethylene	16	2.00	µg/L	20.00		78.8	70-130			
Toluene	16	1.00	µg/L	20.00		80.9	70-130			
1,1,1-Trichloroethane	16	2.00	µg/L	20.00		81.1	70-130			
1,1,2-Trichloroethane	18	2.00	µg/L	20.00		87.8	70-130			
Trichloroethylene	16	2.00	µg/L	20.00		79.6	65-135			
Trichlorofluoromethane (Freon 11)	14	2.00	µg/L	20.00		72.0	50-150			
Vinyl Chloride	10	2.00	µg/L	20.00		50.8	5-195			
m+p Xylene	33	2.00	µg/L	40.00		82.6	70-130			
o-Xylene	17	1.00	µg/L	20.00		83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.00		99.6	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.00		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.00		96.5	70-130			

Batch B401500 - SW-846 5030B

Blank (B401500-BLK1)				Prepared & Analyzed: 03/25/25						
Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401500 - SW-846 5030B										
Blank (B401500-BLK1)				Prepared & Analyzed: 03/25/25						
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	22.4		µg/L	25.00		89.5	70-130			
LCS (B401500-BS1)				Prepared & Analyzed: 03/25/25						
Benzene	16	1.00	µg/L	20.00		78.8	65-135			
Bromodichloromethane	17	2.00	µg/L	20.00		86.8	65-135			
Bromoform	15	2.00	µg/L	20.00		73.0	70-130			
Bromomethane	9.4	2.00	µg/L	20.00		47.0	15-185			
Carbon Tetrachloride	16	2.00	µg/L	20.00		79.8	70-130			
Chlorobenzene	17	2.00	µg/L	20.00		85.0	65-135			
Chlorodibromomethane	16	2.00	µg/L	20.00		81.8	70-135			
Chloroethane	13	2.00	µg/L	20.00		67.0	40-160			
Chloroform	17	2.00	µg/L	20.00		86.4	70-135			
Chloromethane	9.0	2.00	µg/L	20.00		44.8	20-205			
1,2-Dichlorobenzene	17	2.00	µg/L	20.00		86.2	65-135			
1,3-Dichlorobenzene	17	2.00	µg/L	20.00		85.7	70-130			
1,4-Dichlorobenzene	17	2.00	µg/L	20.00		82.6	65-135			
1,2-Dichloroethane	18	2.00	µg/L	20.00		87.8	70-130			
cis-1,2-Dichloroethylene	17	1.00	µg/L	20.00		82.7	70-130			
1,1-Dichloroethane	16	2.00	µg/L	20.00		79.8	70-130			
1,1-Dichloroethylene	15	2.00	µg/L	20.00		73.6	50-150			
trans-1,2-Dichloroethylene	13	2.00	µg/L	20.00		65.2	* 70-130			L-01
1,2-Dichloropropane	17	2.00	µg/L	20.00		84.6	35-165			
cis-1,3-Dichloropropene	16	2.00	µg/L	20.00		81.2	25-175			
trans-1,3-Dichloropropene	18	2.00	µg/L	20.00		89.2	50-150			
Ethylbenzene	17	2.00	µg/L	20.00		85.6	60-140			
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00		75.6	70-130			
Methylene Chloride	15	5.00	µg/L	20.00		73.6	60-140			
1,1,2,2-Tetrachloroethane	17	2.00	µg/L	20.00		86.1	60-140			
Tetrachloroethylene	16	2.00	µg/L	20.00		80.2	70-130			
Toluene	17	1.00	µg/L	20.00		84.3	70-130			
1,1,1-Trichloroethane	16	2.00	µg/L	20.00		80.4	70-130			
1,1,2-Trichloroethane	18	2.00	µg/L	20.00		90.4	70-130			
Trichloroethylene	16	2.00	µg/L	20.00		78.6	65-135			
Trichlorofluoromethane (Freon 11)	14	2.00	µg/L	20.00		70.0	50-150			
Vinyl Chloride	9.6	2.00	µg/L	20.00		47.9	5-195			
m+p Xylene	34	2.00	µg/L	40.00		83.8	70-130			
o-Xylene	17	1.00	µg/L	20.00		87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.00		97.9	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.00		96.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401500 - SW-846 5030B										
Matrix Spike (B401500-MS1)	Source: 25C1250-01			Prepared: 03/25/25 Analyzed: 03/26/25						
Benzene	16	1.00	µg/L	20.00	ND	80.6	37-151			
Bromodichloromethane	17	2.00	µg/L	20.00	ND	84.6	35-155			
Bromoform	14	2.00	µg/L	20.00	ND	69.6	45-169			
Bromomethane	9.8	2.00	µg/L	20.00	ND	48.8	20-242			
Carbon Tetrachloride	16	2.00	µg/L	20.00	ND	81.6	70-140			
Chlorobenzene	17	2.00	µg/L	20.00	ND	84.8	37-160			
Chlorodibromomethane	16	2.00	µg/L	20.00	ND	82.4	53-149			
Chloroethane	14	2.00	µg/L	20.00	ND	69.0	14-230			
Chloroform	17	2.00	µg/L	20.00	ND	84.6	51-138			
Chloromethane	9.8	2.00	µg/L	20.00	ND	49.2	20-273			
1,2-Dichlorobenzene	17	2.00	µg/L	20.00	ND	84.4	18-190			
1,3-Dichlorobenzene	17	2.00	µg/L	20.00	ND	84.7	59-156			
1,4-Dichlorobenzene	16	2.00	µg/L	20.00	ND	79.3	18-190			
1,2-Dichloroethane	17	2.00	µg/L	20.00	ND	84.8	49-155			
cis-1,2-Dichloroethylene	19	1.00	µg/L	20.00	3.1	77.4	70-130			
1,1-Dichloroethane	16	2.00	µg/L	20.00	ND	80.2	59-155			
1,1-Dichloroethylene	15	2.00	µg/L	20.00	ND	77.0	20-234			
trans-1,2-Dichloroethylene	14	2.00	µg/L	20.00	ND	69.6	54-156			L-01
1,2-Dichloropropane	16	2.00	µg/L	20.00	ND	80.2	20-210			
cis-1,3-Dichloropropene	14	2.00	µg/L	20.00	ND	71.0	20-227			
trans-1,3-Dichloropropene	16	2.00	µg/L	20.00	ND	77.8	17-183			
Ethylbenzene	17	2.00	µg/L	20.00	ND	85.3	37-162			
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00	ND	73.6	70-130			
Methylene Chloride	15	5.00	µg/L	20.00	ND	74.7	20-221			
1,1,2,2-Tetrachloroethane	17	2.00	µg/L	20.00	ND	84.3	46-157			
Tetrachloroethylene	16	2.00	µg/L	20.00	ND	81.6	64-148			
Toluene	17	1.00	µg/L	20.00	ND	85.2	47-150			
1,1,1-Trichloroethane	16	2.00	µg/L	20.00	ND	82.4	52-162			
1,1,2-Trichloroethane	18	2.00	µg/L	20.00	ND	88.8	52-150			
Trichloroethylene	76	2.00	µg/L	20.00	59	85.5	70-157			
Trichlorofluoromethane (Freon 11)	15	2.00	µg/L	20.00	ND	74.4	17-181			
Vinyl Chloride	11	2.00	µg/L	20.00	ND	54.5	20-251			
m+p Xylene	33	2.00	µg/L	40.00	ND	83.0	70-130			
o-Xylene	17	1.00	µg/L	20.00	ND	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.00		99.5	70-130			
Surrogate: Toluene-d8	26.1		µg/L	25.00		105	70-130			
Surrogate: 4-Bromofluorobenzene	23.2		µg/L	25.00		92.7	70-130			
Matrix Spike Dup (B401500-MSD1)	Source: 25C1250-01			Prepared: 03/25/25 Analyzed: 03/26/25						
Benzene	16	1.00	µg/L	20.00	ND	80.6	37-151	0.0620	61	
Bromodichloromethane	17	2.00	µg/L	20.00	ND	86.6	35-155	2.40	56	
Bromoform	14	2.00	µg/L	20.00	ND	72.0	45-169	3.25	42	
Bromomethane	10	2.00	µg/L	20.00	ND	51.6	20-242	5.38	61	
Carbon Tetrachloride	17	2.00	µg/L	20.00	ND	83.2	70-140	2.06	41	
Chlorobenzene	17	2.00	µg/L	20.00	ND	84.6	37-160	0.236	53	
Chlorodibromomethane	16	2.00	µg/L	20.00	ND	80.0	53-149	2.96	50	
Chloroethane	14	2.00	µg/L	20.00	ND	70.2	14-230	1.73	78	
Chloroform	17	2.00	µg/L	20.00	ND	85.0	51-138	0.531	54	
Chloromethane	9.4	2.00	µg/L	20.00	ND	47.0	20-273	4.47	60	
1,2-Dichlorobenzene	17	2.00	µg/L	20.00	ND	85.8	18-190	1.70	57	
1,3-Dichlorobenzene	17	2.00	µg/L	20.00	ND	84.4	59-156	0.296	43	
1,4-Dichlorobenzene	16	2.00	µg/L	20.00	ND	79.3	18-190	0.00	57	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401500 - SW-846 5030B										
Matrix Spike Dup (B401500-MSD1)	Source: 25C1250-01			Prepared: 03/25/25 Analyzed: 03/26/25						
1,2-Dichloroethane	17	2.00	µg/L	20.00	ND	84.8	49-155	0.0589	49	
cis-1,2-Dichloroethylene	19	1.00	µg/L	20.00	3.1	78.8	70-130	1.49	30	
1,1-Dichloroethane	16	2.00	µg/L	20.00	ND	82.2	59-155	2.59	40	
1,1-Dichloroethylene	16	2.00	µg/L	20.00	ND	77.7	20-234	0.970	32	
trans-1,2-Dichloroethylene	14	2.00	µg/L	20.00	ND	69.0	54-156	0.866	45	L-01
1,2-Dichloropropane	16	2.00	µg/L	20.00	ND	82.4	20-210	2.71	55	
cis-1,3-Dichloropropene	14	2.00	µg/L	20.00	ND	72.0	20-227	1.33	58	
trans-1,3-Dichloropropene	15	2.00	µg/L	20.00	ND	76.4	17-183	1.81	86	
Ethylbenzene	17	2.00	µg/L	20.00	ND	85.2	37-162	0.0586	63	
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00	ND	75.8	70-130	2.81	20	
Methylene Chloride	15	5.00	µg/L	20.00	ND	74.7	20-221	0.00	28	
1,1,2,2-Tetrachloroethane	17	2.00	µg/L	20.00	ND	86.2	46-157	2.29	61	
Tetrachloroethylene	16	2.00	µg/L	20.00	ND	81.5	64-148	0.123	39	
Toluene	17	1.00	µg/L	20.00	ND	84.2	47-150	1.24	41	
1,1,1-Trichloroethane	16	2.00	µg/L	20.00	ND	81.9	52-162	0.669	36	
1,1,2-Trichloroethane	18	2.00	µg/L	20.00	ND	90.0	52-150	1.29	45	
Trichloroethylene	78	2.00	µg/L	20.00	59	95.1	70-157	2.52	48	
Trichlorofluoromethane (Freon 11)	15	2.00	µg/L	20.00	ND	74.2	17-181	0.135	84	
Vinyl Chloride	11	2.00	µg/L	20.00	ND	54.0	20-251	0.829	66	
m+p Xylene	33	2.00	µg/L	40.00	ND	82.4	70-130	0.756	20	
o-Xylene	17	1.00	µg/L	20.00	ND	85.2	70-130	0.471	20	
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.00		99.9	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.00		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.00		97.7	70-130			

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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 B401277 - SW-846 3510C										
Blank (B401277-BLK1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.76		µg/L	10.00		27.6	15-110			
LCS (B401277-BS1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	10.9	0.20	µg/L	10.00		109	40-140			
Surrogate: 1,4-Dioxane-d8	2.78		µg/L	10.00		27.8	15-110			
LCS Dup (B401277-BSD1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	11.3	0.20	µg/L	10.00		113	40-140	3.52	30	
Surrogate: 1,4-Dioxane-d8	3.05		µg/L	10.00		30.5	15-110			
Matrix Spike (B401277-MS1)				Source: 25C1250-01		Prepared: 03/20/25 Analyzed: 03/24/25				
1,4-Dioxane	11.4	0.21	µg/L	10.31	ND	111	30-140			
Surrogate: 1,4-Dioxane-d8	3.39		µg/L	10.31		32.9	15-110			
Matrix Spike Dup (B401277-MSD1)				Source: 25C1250-01		Prepared: 03/20/25 Analyzed: 03/24/25				
1,4-Dioxane	11.2	0.21	µg/L	10.31	ND	109	30-140	1.78	30	
Surrogate: 1,4-Dioxane-d8	3.10		µg/L	10.31		30.0	15-110			
Batch B401278 - SW-846 3510C										
Blank (B401278-BLK1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	3.35		µg/L	10.00		33.5	15-110			
LCS (B401278-BS1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	10.6	0.20	µg/L	10.00		106	40-140			
Surrogate: 1,4-Dioxane-d8	3.17		µg/L	10.00		31.7	15-110			
LCS Dup (B401278-BSD1)				Prepared: 03/20/25 Analyzed: 03/24/25						
1,4-Dioxane	11.4	0.20	µg/L	10.00		114	40-140	7.38	30	
Surrogate: 1,4-Dioxane-d8	3.27		µg/L	10.00		32.7	15-110			
Batch B401474 - SW-846 3510C										
Blank (B401474-BLK1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	3.02		µg/L	10.00		30.2	15-110			
LCS (B401474-BS1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	10.5	0.20	µg/L	10.00		105	40-140			
Surrogate: 1,4-Dioxane-d8	3.44		µg/L	10.00		34.4	15-110			

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 B401474 - SW-846 3510C										
LCS Dup (B401474-BSD1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140	10.4	30	
Surrogate: 1,4-Dioxane-d8	3.26		µg/L	10.00		32.6	15-110			
Batch B401567 - SW-846 3510C										
Blank (B401567-BLK1)				Prepared: 03/25/25 Analyzed: 03/26/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.58		µg/L	10.00		25.8	15-110			
LCS (B401567-BS1)				Prepared: 03/25/25 Analyzed: 03/26/25						
1,4-Dioxane	10.6	0.20	µg/L	10.00		106	40-140			
Surrogate: 1,4-Dioxane-d8	2.99		µg/L	10.00		29.9	15-110			
LCS Dup (B401567-BSD1)				Prepared: 03/25/25 Analyzed: 03/26/25						
1,4-Dioxane	11.9	0.20	µg/L	10.00		119	40-140	11.2	30	
Surrogate: 1,4-Dioxane-d8	2.61		µg/L	10.00		26.1	15-110			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401488 - EPA 1633										
Blank (B401488-BLK1)										
Prepared: 03/24/25 Analyzed: 04/04/25										
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	79.3		ng/L	79.22		100	5-130			

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QUALITY CONTROL

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

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

Batch B401488 - EPA 1633

Blank (B401488-BLK1)

Prepared: 03/24/25 Analyzed: 04/04/25

Surrogate: 13C5-PFPeA	41.4		ng/L	39.61		105	40-130			
Surrogate: 13C5-PFHxA	20.2		ng/L	19.81		102	40-130			
Surrogate: 13C4-PFHpA	19.3		ng/L	19.81		97.6	40-130			
Surrogate: 13C8-PFOA	20.5		ng/L	19.81		104	40-130			
Surrogate: 13C9-PFNA	10.2		ng/L	9.903		103	40-130			
Surrogate: 13C6-PFDA	10.0		ng/L	9.903		101	40-130			
Surrogate: 13C7-PFUnA	9.86		ng/L	9.903		99.6	30-130			
Surrogate: 13C2-PFDoA	9.14		ng/L	9.903		92.3	10-130			
Surrogate: 13C2-PFTeDA	9.02		ng/L	9.903		91.1	10-130			
Surrogate: 13C3-PFBS	18.7		ng/L	19.81		94.5	40-135			
Surrogate: 13C3-PFHxS	19.2		ng/L	19.81		96.9	40-130			
Surrogate: 13C8-PFOS	19.5		ng/L	19.81		98.7	40-130			
Surrogate: 13C2-4:2FTS	42.1		ng/L	39.61		106	40-200			
Surrogate: 13C2-6:2FTS	43.7		ng/L	39.61		110	40-200			
Surrogate: 13C2-8:2FTS	39.0		ng/L	39.61		98.4	40-300			
Surrogate: 13C8-PFOA	18.0		ng/L	19.81		91.0	40-130			
Surrogate: D3-NMeFOSA	15.3		ng/L	19.81		77.2	10-130			
Surrogate: D5-NEtFOSA	15.9		ng/L	19.81		80.1	10-130			
Surrogate: D3-NMeFOSAA	36.4		ng/L	39.61		91.8	40-170			
Surrogate: D5-NEtFOSAA	35.4		ng/L	39.61		89.4	25-135			
Surrogate: D7-NMeFOSE	173		ng/L	198.1		87.6	10-130			
Surrogate: D9-NEtFOSE	168		ng/L	198.1		84.8	10-130			
Surrogate: 13C3-HFPO-DA	82.0		ng/L	79.22		104	40-130			

LCS (B401488-BS1)

Prepared: 03/24/25 Analyzed: 04/04/25

Perfluorobutanoic acid (PFBA)	82.3	6.3	ng/L	79.07		104	70-140			
Perfluoropentanoic acid (PFPeA)	41.0	3.2	ng/L	39.53		104	65-135			
Perfluorohexanoic acid (PFHxA)	20.5	1.6	ng/L	19.77		103	70-145			
Perfluoroheptanoic acid (PFHpA)	20.8	1.6	ng/L	19.77		105	70-150			
Perfluorooctanoic acid (PFOA)	19.7	1.6	ng/L	19.77		99.8	70-150			
Perfluorononanoic acid (PFNA)	22.2	1.6	ng/L	19.77		113	70-150			
Perfluorodecanoic acid (PFDA)	20.3	1.6	ng/L	19.77		103	70-140			
Perfluoroundecanoic acid (PFUnA)	21.3	1.6	ng/L	19.77		108	70-145			
Perfluorododecanoic acid (PFDoA)	22.3	1.6	ng/L	19.77		113	70-140			
Perfluorotridecanoic acid (PFTTrDA)	21.4	1.6	ng/L	19.77		108	65-140			
Perfluorotetradecanoic acid (PFTeDA)	22.3	1.6	ng/L	19.77		113	60-140			
Perfluorobutanesulfonic acid (PFBS)	18.5	1.6	ng/L	17.55		105	60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.8	1.6	ng/L	18.58		106	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.1	1.6	ng/L	18.03		101	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	20.0	1.6	ng/L	18.82		106	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.0	1.6	ng/L	18.34		97.9	55-150			
Perfluorononanesulfonic acid (PFNS)	18.1	1.6	ng/L	18.98		95.6	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.0	1.6	ng/L	19.06		89.2	60-145			
Perfluorododecanesulfonic acid (PFDoS)	17.1	1.6	ng/L	19.13		89.2	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	81.9	6.3	ng/L	74.09		111	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	91.0	6.3	ng/L	75.19		121	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	87.7	6.3	ng/L	75.90		116	60-150			
Perfluorooctanesulfonamide (PFOSA)	20.2	1.6	ng/L	19.77		102	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	16.9	1.6	ng/L	19.77		85.6	60-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401488 - EPA 1633										
LCS (B401488-BS1)										
Prepared: 03/24/25 Analyzed: 04/04/25										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.3	1.6	ng/L	19.77		92.4	65-145			
N-MeFOSAA (NMeFOSAA)	18.6	1.6	ng/L	19.77		94.1	50-140			
N-EtFOSAA (NEtFOSAA)	18.5	1.6	ng/L	19.77		93.5	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	210	16	ng/L	197.7		106	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	212	16	ng/L	197.7		107	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.0	6.3	ng/L	79.07		109	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	81.0	6.3	ng/L	74.72		108	65-145			
9Cl-PF3ONS (F53B Minor)	75.3	6.3	ng/L	73.77		102	70-155			
11Cl-PF3OUdS (F53B Major)	74.5	6.3	ng/L	73.85		101	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	100	7.9	ng/L	98.83		102	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	557	40	ng/L	494.2		113	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	543	40	ng/L	494.2		110	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	39.0	3.2	ng/L	35.26		111	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.8	3.2	ng/L	39.53		103	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.0	3.2	ng/L	39.53		104	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	3.2	ng/L	39.53		101	50-150			
Surrogate: 13C4-PFBA	75.9		ng/L	79.07		96.0	5-130			
Surrogate: 13C5-PFPeA	38.1		ng/L	39.53		96.3	40-130			
Surrogate: 13C5-PFHxA	18.9		ng/L	19.77		95.8	40-130			
Surrogate: 13C4-PFHpA	18.5		ng/L	19.77		93.6	40-130			
Surrogate: 13C8-PFOA	18.9		ng/L	19.77		95.8	40-130			
Surrogate: 13C9-PFNA	9.09		ng/L	9.883		92.0	40-130			
Surrogate: 13C6-PFDA	9.84		ng/L	9.883		99.6	40-130			
Surrogate: 13C7-PFUnA	9.52		ng/L	9.883		96.3	30-130			
Surrogate: 13C2-PFDoA	8.69		ng/L	9.883		87.9	10-130			
Surrogate: 13C2-PFTeDA	8.28		ng/L	9.883		83.8	10-130			
Surrogate: 13C3-PFBS	19.4		ng/L	19.77		98.2	40-135			
Surrogate: 13C3-PFHxS	19.8		ng/L	19.77		100	40-130			
Surrogate: 13C8-PFOS	19.2		ng/L	19.77		96.9	40-130			
Surrogate: 13C2-4:2FTS	39.7		ng/L	39.53		101	40-200			
Surrogate: 13C2-6:2FTS	39.3		ng/L	39.53		99.3	40-200			
Surrogate: 13C2-8:2FTS	40.5		ng/L	39.53		102	40-300			
Surrogate: 13C8-PFOSA	17.4		ng/L	19.77		88.2	40-130			
Surrogate: D3-NMeFOSA	16.0		ng/L	19.77		81.0	10-130			
Surrogate: D5-NEtFOSA	16.0		ng/L	19.77		81.1	10-130			
Surrogate: D3-NMeFOSAA	34.7		ng/L	39.53		87.7	40-170			
Surrogate: D5-NEtFOSAA	34.7		ng/L	39.53		87.7	25-135			
Surrogate: D7-NMeFOSE	160		ng/L	197.7		81.2	10-130			
Surrogate: D9-NEtFOSE	157		ng/L	197.7		79.3	10-130			
Surrogate: 13C3-HFPO-DA	76.4		ng/L	79.07		96.7	40-130			
MRL Check (B401488-MRL1)										
Prepared: 03/24/25 Analyzed: 04/04/25										
Perfluorobutanoic acid (PFBA)	13.1	6.3	ng/L	12.65		104	70-140			
Perfluoropentanoic acid (PFPeA)	6.28	3.2	ng/L	6.325		99.3	65-135			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401488 - EPA 1633										
MRL Check (B401488-MRL1)										
Prepared: 03/24/25 Analyzed: 04/04/25										
Perfluorohexanoic acid (PFHxA)	3.34	1.6	ng/L	3.163		106	70-145			
Perfluoroheptanoic acid (PFHpA)	2.92	1.6	ng/L	3.163		92.3	70-150			
Perfluorooctanoic acid (PFOA)	3.40	1.6	ng/L	3.163		108	70-150			
Perfluorononanoic acid (PFNA)	2.99	1.6	ng/L	3.163		94.5	70-150			
Perfluorodecanoic acid (PFDA)	3.16	1.6	ng/L	3.163		100	70-140			
Perfluoroundecanoic acid (PFUnA)	3.34	1.6	ng/L	3.163		106	70-145			
Perfluorododecanoic acid (PFDoA)	3.09	1.6	ng/L	3.163		97.8	70-140			
Perfluorotridecanoic acid (PFTTrDA)	2.97	1.6	ng/L	3.163		93.8	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.19	1.6	ng/L	3.163		101	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.82	1.6	ng/L	2.808		101	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.83	1.6	ng/L	2.973		95.3	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.66	1.6	ng/L	2.884		92.2	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.31	1.6	ng/L	3.011		110	70-150			
Perfluorooctanesulfonic acid (PFOS)	3.20	1.6	ng/L	2.935		109	55-150			
Perfluorononanesulfonic acid (PFNS)	2.83	1.6	ng/L	3.036		93.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.68	1.6	ng/L	3.049		87.8	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.81	1.6	ng/L	3.061		91.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	12.3	6.3	ng/L	11.85		104	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.7	6.3	ng/L	12.03		122	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	12.2	6.3	ng/L	12.14		101	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.21	1.6	ng/L	3.163		102	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.73	1.6	ng/L	3.163		86.3	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.92	1.6	ng/L	3.163		92.3	65-145			
N-MeFOSAA (NMeFOSAA)	3.19	1.6	ng/L	3.163		101	50-140			
N-EtFOSAA (NEtFOSAA)	3.18	1.6	ng/L	3.163		101	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	30.0	16	ng/L	31.63		95.0	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	29.8	16	ng/L	31.63		94.1	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.0	6.3	ng/L	12.65		103	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	12.2	6.3	ng/L	11.95		102	65-145			
9Cl-PF3ONS (F53B Minor)	12.2	6.3	ng/L	11.80		104	70-155			
11Cl-PF3OUDS (F53B Major)	11.7	6.3	ng/L	11.82		99.1	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.6	7.9	ng/L	15.81		98.5	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	85.1	40	ng/L	79.06		108	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	80.3	40	ng/L	79.06		102	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.97	3.2	ng/L	5.642		106	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.36	3.2	ng/L	6.325		101	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.89	3.2	ng/L	6.325		93.1	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.17	3.2	ng/L	6.325		97.6	50-150			
Surrogate: 13C4-PFBA	74.5		ng/L	79.06		94.3	5-130			
Surrogate: 13C5-PFPeA	39.6		ng/L	39.53		100	40-130			
Surrogate: 13C5-PFHxA	19.1		ng/L	19.77		96.8	40-130			

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

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

Batch B401488 - EPA 1633
MRL Check (B401488-MRL1)

Prepared: 03/24/25 Analyzed: 04/04/25

Surrogate: 13C4-PFHpA	18.5		ng/L	19.77		93.6	40-130			
Surrogate: 13C8-PFOA	18.8		ng/L	19.77		95.2	40-130			
Surrogate: 13C9-PFNA	9.67		ng/L	9.883		97.8	40-130			
Surrogate: 13C6-PFDA	9.64		ng/L	9.883		97.6	40-130			
Surrogate: 13C7-PFUnA	9.17		ng/L	9.883		92.8	30-130			
Surrogate: 13C2-PFDoA	8.58		ng/L	9.883		86.8	10-130			
Surrogate: 13C2-PFTeDA	8.16		ng/L	9.883		82.5	10-130			
Surrogate: 13C3-PFBS	18.8		ng/L	19.77		94.9	40-135			
Surrogate: 13C3-PFHxS	19.3		ng/L	19.77		97.4	40-130			
Surrogate: 13C8-PFOS	18.3		ng/L	19.77		92.5	40-130			
Surrogate: 13C2-4:2FTS	40.1		ng/L	39.53		101	40-200			
Surrogate: 13C2-6:2FTS	38.2		ng/L	39.53		96.5	40-200			
Surrogate: 13C2-8:2FTS	36.0		ng/L	39.53		91.0	40-300			
Surrogate: 13C8-PFOSA	17.0		ng/L	19.77		86.0	40-130			
Surrogate: D3-NMeFOSA	15.2		ng/L	19.77		76.7	10-130			
Surrogate: D5-NEtFOSA	15.6		ng/L	19.77		78.9	10-130			
Surrogate: D3-NMeFOSAA	34.6		ng/L	39.53		87.6	40-170			
Surrogate: D5-NEtFOSAA	33.6		ng/L	39.53		85.0	25-135			
Surrogate: D7-NMeFOSE	157		ng/L	197.7		79.5	10-130			
Surrogate: D9-NEtFOSE	153		ng/L	197.7		77.2	10-130			
Surrogate: 13C3-HFPO-DA	79.8		ng/L	79.06		101	40-130			

Matrix Spike (B401488-MS1)

Source: 25C1250-01

Prepared: 03/24/25 Analyzed: 04/04/25

Perfluorobutanoic acid (PFBA)	104	6.8	ng/L	85.29	13.1	106	70-140			
Perfluoropentanoic acid (PFPeA)	52.4	3.4	ng/L	42.64	6.19	108	65-135			
Perfluorohexanoic acid (PFHxA)	24.2	1.7	ng/L	21.32	1.59	106	70-145			
Perfluoroheptanoic acid (PFHpA)	23.3	1.7	ng/L	21.32	0.856	105	70-150			
Perfluorooctanoic acid (PFOA)	24.5	1.7	ng/L	21.32	3.89	96.7	70-150			
Perfluorononanoic acid (PFNA)	22.6	1.7	ng/L	21.32	ND	106	70-150			
Perfluorodecanoic acid (PFDA)	22.7	1.7	ng/L	21.32	ND	106	70-140			
Perfluoroundecanoic acid (PFUnA)	23.4	1.7	ng/L	21.32	ND	110	70-145			
Perfluorododecanoic acid (PFDoA)	22.0	1.7	ng/L	21.32	ND	103	70-140			
Perfluorotridecanoic acid (PFTrDA)	22.3	1.7	ng/L	21.32	ND	105	65-140			
Perfluorotetradecanoic acid (PFTeDA)	22.9	1.7	ng/L	21.32	ND	108	60-140			
Perfluorobutanesulfonic acid (PFBS)	21.9	1.7	ng/L	18.93	1.01	110	60-145			
Perfluoropentanesulfonic acid (PFPeS)	21.1	1.7	ng/L	20.04	ND	105	65-140			
Perfluorohexanesulfonic acid (PFHxS)	20.0	1.7	ng/L	19.45	ND	103	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	26.5	1.7	ng/L	20.30	ND	131	70-150			
Perfluorooctanesulfonic acid (PFOS)	22.3	1.7	ng/L	19.79	ND	113	55-150			
Perfluorononanesulfonic acid (PFNS)	18.3	1.7	ng/L	20.47	ND	89.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.5	1.7	ng/L	20.55	ND	80.2	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.6	1.7	ng/L	20.64	ND	75.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.2	6.8	ng/L	79.91	ND	113	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.5	6.8	ng/L	81.11	ND	121	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.8	6.8	ng/L	81.87	ND	122	60-150			
Perfluorooctanesulfonamide (PFOSA)	28.5	1.7	ng/L	21.32	0.823	130	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	20.3	1.7	ng/L	21.32	ND	95.4	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.1	1.7	ng/L	21.32	ND	85.0	65-145			
N-MeFOSAA (NMeFOSAA)	22.5	1.7	ng/L	21.32	ND	105	50-140			

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 B401488 - EPA 1633										
Matrix Spike (B401488-MS1)	Source: 25C1250-01			Prepared: 03/24/25 Analyzed: 04/04/25						
N-EtFOSAA (NEtFOSAA)	23.5	1.7	ng/L	21.32	ND	110	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	219	17	ng/L	213.2	ND	103	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	219	17	ng/L	213.2	ND	103	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.1	6.8	ng/L	85.29	ND	110	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	84.7	6.8	ng/L	80.60	ND	105	65-145			
9Cl-PF3ONS (F53B Minor)	82.4	6.8	ng/L	79.57	ND	104	70-155			
11Cl-PF3OUdS (F53B Major)	68.0	6.8	ng/L	79.66	ND	85.3	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	124	8.5	ng/L	106.6	ND	116	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	634	43	ng/L	533.0	ND	119	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	598	43	ng/L	533.0	ND	112	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	43.8	3.4	ng/L	38.04	ND	115	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	54.5	3.4	ng/L	42.64	ND	128	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	46.6	3.4	ng/L	42.64	ND	109	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.6	3.4	ng/L	42.64	ND	95.3	50-150			
Surrogate: 13C4-PFBA	78.8		ng/L	85.29		92.4	5-130			
Surrogate: 13C5-PFPeA	38.6		ng/L	42.64		90.6	40-130			
Surrogate: 13C5-PFHxA	20.2		ng/L	21.32		94.7	40-130			
Surrogate: 13C4-PFHpA	20.3		ng/L	21.32		95.2	40-130			
Surrogate: 13C8-PFOA	20.1		ng/L	21.32		94.3	40-130			
Surrogate: 13C9-PFNA	9.83		ng/L	10.66		92.2	40-130			
Surrogate: 13C6-PFDA	8.83		ng/L	10.66		82.8	40-130			
Surrogate: 13C7-PFUnA	7.73		ng/L	10.66		72.5	30-130			
Surrogate: 13C2-PFDoA	6.84		ng/L	10.66		64.2	10-130			
Surrogate: 13C2-PFTeDA	6.93		ng/L	10.66		65.0	10-130			
Surrogate: 13C3-PFBS	21.2		ng/L	21.32		99.6	40-135			
Surrogate: 13C3-PFHxS	21.0		ng/L	21.32		98.3	40-130			
Surrogate: 13C8-PFOS	17.8		ng/L	21.32		83.5	40-130			
Surrogate: 13C2-4:2FTS	77.1		ng/L	42.64		181	40-200			
Surrogate: 13C2-6:2FTS	50.9		ng/L	42.64		119	40-200			
Surrogate: 13C2-8:2FTS	33.9		ng/L	42.64		79.5	40-300			
Surrogate: 13C8-PFOA	15.9		ng/L	21.32		74.4	40-130			
Surrogate: D3-NMeFOSA	12.1		ng/L	21.32		56.6	10-130			
Surrogate: D5-NEtFOSA	11.7		ng/L	21.32		54.7	10-130			
Surrogate: D3-NMeFOSAA	29.3		ng/L	42.64		68.7	40-170			
Surrogate: D5-NEtFOSAA	26.9		ng/L	42.64		63.0	25-135			
Surrogate: D7-NMeFOSE	121		ng/L	213.2		56.6	10-130			
Surrogate: D9-NEtFOSE	114		ng/L	213.2		53.6	10-130			
Surrogate: 13C3-HFPO-DA	79.4		ng/L	85.29		93.1	40-130			
Matrix Spike Dup (B401488-MSD1)	Source: 25C1250-01			Prepared: 03/24/25 Analyzed: 04/04/25						
Perfluorobutanoic acid (PFBA)	108	7.2	ng/L	90.21	13.1	105	70-140	3.87	25	
Perfluoropentanoic acid (PFPeA)	53.0	3.6	ng/L	45.11	6.19	104	65-135	1.20	25	
Perfluorohexanoic acid (PFHxA)	24.9	1.8	ng/L	22.55	1.59	103	70-145	2.77	25	
Perfluoroheptanoic acid (PFHpA)	24.0	1.8	ng/L	22.55	0.856	103	70-150	3.12	25	
Perfluorooctanoic acid (PFOA)	24.9	1.8	ng/L	22.55	3.89	93.3	70-150	1.73	25	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401488 - EPA 1633										
Matrix Spike Dup (B401488-MSD1)	Source: 25C1250-01			Prepared: 03/24/25 Analyzed: 04/04/25						
Perfluorononanoic acid (PFNA)	23.6	1.8	ng/L	22.55	ND	105	70-150	4.09	25	
Perfluorodecanoic acid (PFDA)	22.6	1.8	ng/L	22.55	ND	100	70-140	0.163	25	
Perfluoroundecanoic acid (PFUnA)	23.0	1.8	ng/L	22.55	ND	102	70-145	1.93	25	
Perfluorododecanoic acid (PFDoA)	22.1	1.8	ng/L	22.55	ND	98.2	70-140	0.685	25	
Perfluorotridecanoic acid (PFTTrDA)	22.1	1.8	ng/L	22.55	ND	98.0	65-140	0.882	25	
Perfluorotetradecanoic acid (PFTeDA)	24.2	1.8	ng/L	22.55	ND	107	60-140	5.34	25	
Perfluorobutanesulfonic acid (PFBS)	22.6	1.8	ng/L	20.03	1.01	108	60-145	3.21	25	
Perfluoropentanesulfonic acid (PFPeS)	22.0	1.8	ng/L	21.20	ND	104	65-140	4.21	25	
Perfluorohexanesulfonic acid (PFHxS)	21.1	1.8	ng/L	20.57	ND	103	65-145	5.71	25	
Perfluoroheptanesulfonic acid (PFHpS)	26.4	1.8	ng/L	21.47	ND	123	70-150	0.493	25	
Perfluorooctanesulfonic acid (PFOS)	21.7	1.8	ng/L	20.93	ND	104	55-150	2.66	25	
Perfluorononanesulfonic acid (PFNS)	17.9	1.8	ng/L	21.65	ND	82.6	65-145	2.31	25	
Perfluorodecanesulfonic acid (PFDS)	16.3	1.8	ng/L	21.74	ND	74.9	60-145	1.25	25	
Perfluorododecanesulfonic acid (PFDoS)	16.1	1.8	ng/L	21.83	ND	73.6	50-145	2.97	25	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	94.9	7.2	ng/L	84.53	ND	112	70-145	5.04	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	7.2	ng/L	85.79	ND	123	65-155	7.09	25	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.0	7.2	ng/L	86.60	ND	114	60-150	0.756	25	
Perfluorooctanesulfonamide (PFOSA)	28.5	1.8	ng/L	22.55	0.823	123	70-145	0.0388	25	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	19.9	1.8	ng/L	22.55	ND	88.1	60-150	2.42	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.8	1.8	ng/L	22.55	ND	83.5	65-145	3.80	25	
N-MeFOSAA (NMeFOSAA)	21.4	1.8	ng/L	22.55	ND	94.8	50-140	5.10	25	
N-EtFOSAA (NEtFOSAA)	23.6	1.8	ng/L	22.55	ND	105	70-145	0.464	25	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	218	18	ng/L	225.5	ND	96.8	70-145	0.492	25	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	221	18	ng/L	225.5	ND	98.0	70-135	0.921	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.0	7.2	ng/L	90.21	ND	107	70-140	2.97	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	87.9	7.2	ng/L	85.25	ND	103	65-145	3.79	25	
9Cl-PF3ONS (F53B Minor)	81.0	7.2	ng/L	84.17	ND	96.2	70-155	1.66	25	
11Cl-PF3OUDS (F53B Major)	66.6	7.2	ng/L	84.26	ND	79.1	55-160	1.97	25	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	126	9.0	ng/L	112.8	ND	111	65-130	1.17	25	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	650	45	ng/L	563.8	ND	115	70-135	2.54	25	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	609	45	ng/L	563.8	ND	108	50-145	1.85	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	45.4	3.6	ng/L	40.23	ND	113	70-140	3.57	25	
Perfluoro-3-methoxypropanoic acid (PFMPA)	55.5	3.6	ng/L	45.11	ND	123	55-140	1.95	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	47.3	3.6	ng/L	45.11	ND	105	60-150	1.54	25	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	43.0	3.6	ng/L	45.11	ND	95.4	50-150	5.77	25	
Surrogate: 13C4-PFBA	84.5		ng/L	90.21		93.7	5-130			
Surrogate: 13C5-PFPeA	42.9		ng/L	45.11		95.2	40-130			
Surrogate: 13C5-PFHxA	22.2		ng/L	22.55		98.4	40-130			
Surrogate: 13C4-PFHpA	22.5		ng/L	22.55		99.6	40-130			
Surrogate: 13C8-PFOA	21.7		ng/L	22.55		96.1	40-130			
Surrogate: 13C9-PFNA	10.6		ng/L	11.28		94.1	40-130			

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QUALITY CONTROL

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

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

Batch B401488 - EPA 1633

Matrix Spike Dup (B401488-MSD1)

Source: 25C1250-01

Prepared: 03/24/25 Analyzed: 04/04/25

Surrogate: 13C6-PFDA	9.70		ng/L	11.28		86.0	40-130			
Surrogate: 13C7-PFUnA	8.54		ng/L	11.28		75.7	30-130			
Surrogate: 13C2-PFDoA	7.35		ng/L	11.28		65.2	10-130			
Surrogate: 13C2-PFTeDA	6.99		ng/L	11.28		62.0	10-130			
Surrogate: 13C3-PFBS	22.2		ng/L	22.55		98.5	40-135			
Surrogate: 13C3-PFHxS	21.5		ng/L	22.55		95.5	40-130			
Surrogate: 13C8-PFOS	19.8		ng/L	22.55		87.9	40-130			
Surrogate: 13C2-4:2FTS	80.3		ng/L	45.11		178	40-200			
Surrogate: 13C2-6:2FTS	51.9		ng/L	45.11		115	40-200			
Surrogate: 13C2-8:2FTS	37.2		ng/L	45.11		82.5	40-300			
Surrogate: 13C8-PFOSA	17.6		ng/L	22.55		78.2	40-130			
Surrogate: D3-NMeFOSA	13.3		ng/L	22.55		58.9	10-130			
Surrogate: D5-NEtFOSA	13.1		ng/L	22.55		58.2	10-130			
Surrogate: D3-NMeFOSAA	31.4		ng/L	45.11		69.6	40-170			
Surrogate: D5-NEtFOSAA	29.0		ng/L	45.11		64.4	25-135			
Surrogate: D7-NMeFOSE	131		ng/L	225.5		58.3	10-130			
Surrogate: D9-NEtFOSE	122		ng/L	225.5		54.2	10-130			
Surrogate: 13C3-HFPO-DA	84.3		ng/L	90.21		93.4	40-130			

Batch B401951 - EPA 1633

Blank (B401951-BLK1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							

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QUALITY CONTROL

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

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

Batch B401951 - EPA 1633

Blank (B401951-BLK1)

Prepared: 04/07/25 Analyzed: 04/08/25

N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUDS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	65.6		ng/L	78.48		83.5	5-130			
Surrogate: 13C5-PFPeA	33.8		ng/L	39.24		86.2	40-130			
Surrogate: 13C5-PFHxA	16.6		ng/L	19.62		84.7	40-130			
Surrogate: 13C4-PFHpA	16.9		ng/L	19.62		85.9	40-130			
Surrogate: 13C8-PFOA	15.7		ng/L	19.62		80.1	40-130			
Surrogate: 13C9-PFNA	8.26		ng/L	9.810		84.1	40-130			
Surrogate: 13C6-PFDA	8.25		ng/L	9.810		84.1	40-130			
Surrogate: 13C7-PFUnA	8.44		ng/L	9.810		86.1	30-130			
Surrogate: 13C2-PFDoA	8.08		ng/L	9.810		82.4	10-130			
Surrogate: 13C2-PFTeDA	7.46		ng/L	9.810		76.0	10-130			
Surrogate: 13C3-PFBS	17.5		ng/L	19.62		89.4	40-135			
Surrogate: 13C3-PFHxS	16.5		ng/L	19.62		84.3	40-130			
Surrogate: 13C8-PFOS	16.6		ng/L	19.62		84.4	40-130			
Surrogate: 13C2-4:2FTS	36.7		ng/L	39.24		93.7	40-200			
Surrogate: 13C2-6:2FTS	34.3		ng/L	39.24		87.4	40-200			
Surrogate: 13C2-8:2FTS	32.5		ng/L	39.24		82.7	40-300			
Surrogate: 13C8-PFOSA	16.8		ng/L	19.62		85.6	40-130			
Surrogate: D3-NMeFOSA	13.5		ng/L	19.62		69.0	10-130			
Surrogate: D5-NEtFOSA	14.5		ng/L	19.62		74.2	10-130			
Surrogate: D3-NMeFOSAA	29.8		ng/L	39.24		75.9	40-170			
Surrogate: D5-NEtFOSAA	29.7		ng/L	39.24		75.6	25-135			
Surrogate: D7-NMeFOSE	174		ng/L	196.2		88.9	10-130			
Surrogate: D9-NEtFOSE	173		ng/L	196.2		88.1	10-130			
Surrogate: 13C3-HFPO-DA	66.7		ng/L	78.48		85.0	40-130			

LCS (B401951-BS1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	73.4	6.3	ng/L	78.13		93.9	70-140			
Perfluoropentanoic acid (PFPeA)	36.2	3.1	ng/L	39.07		92.7	65-135			
Perfluorohexanoic acid (PFHxA)	18.9	1.6	ng/L	19.53		96.7	70-145			
Perfluoroheptanoic acid (PFHpA)	18.8	1.6	ng/L	19.53		96.3	70-150			
Perfluorooctanoic acid (PFOA)	16.8	1.6	ng/L	19.53		85.9	70-150			
Perfluorononanoic acid (PFNA)	18.7	1.6	ng/L	19.53		95.5	70-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401951 - EPA 1633										
LCS (B401951-BS1)										
Prepared: 04/07/25 Analyzed: 04/08/25										
Perfluorodecanoic acid (PFDA)	18.1	1.6	ng/L	19.53		92.8	70-140			
Perfluoroundecanoic acid (PFUnA)	19.4	1.6	ng/L	19.53		99.1	70-145			
Perfluorododecanoic acid (PFDoA)	19.7	1.6	ng/L	19.53		101	70-140			
Perfluorotridecanoic acid (PFTrDA)	18.8	1.6	ng/L	19.53		96.4	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.0	1.6	ng/L	19.53		97.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.5	1.6	ng/L	17.35		101	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.9	1.6	ng/L	18.36		97.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.1	1.6	ng/L	17.81		95.8	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.7	1.6	ng/L	18.60		106	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.1	1.6	ng/L	18.13		100	55-150			
Perfluorononanesulfonic acid (PFNS)	17.2	1.6	ng/L	18.75		91.7	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.6	1.6	ng/L	18.83		88.3	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.3	1.6	ng/L	18.91		86.1	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	76.0	6.3	ng/L	73.21		104	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.0	6.3	ng/L	74.31		105	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	73.2	6.3	ng/L	75.01		97.5	60-150			
Perfluorooctanesulfonamide (PFOSA)	17.8	1.6	ng/L	19.53		91.0	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	18.8	1.6	ng/L	19.53		96.4	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.1	1.6	ng/L	19.53		92.6	65-145			
N-MeFOSAA (NMeFOSAA)	20.5	1.6	ng/L	19.53		105	50-140			
N-EtFOSAA (NEtFOSAA)	19.1	1.6	ng/L	19.53		97.6	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	184	16	ng/L	195.3		94.3	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	183	16	ng/L	195.3		93.6	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.7	6.3	ng/L	78.13		102	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	66.5	6.3	ng/L	73.84		90.1	65-145			
9Cl-PF3ONS (F53B Minor)	73.5	6.3	ng/L	72.90		101	70-155			
11Cl-PF3OUdS (F53B Major)	72.8	6.3	ng/L	72.98		99.7	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	93.8	7.8	ng/L	97.67		96.0	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	505	39	ng/L	488.3		103	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	459	39	ng/L	488.3		94.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	31.9	3.1	ng/L	34.85		91.5	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.0	3.1	ng/L	39.07		99.8	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	36.8	3.1	ng/L	39.07		94.2	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	34.6	3.1	ng/L	39.07		88.6	50-150			
Surrogate: 13C4-PFBA	61.9		ng/L	78.13		79.2	5-130			
Surrogate: 13C5-PFPeA	31.1		ng/L	39.07		79.5	40-130			
Surrogate: 13C5-PFHxA	15.6		ng/L	19.53		80.0	40-130			
Surrogate: 13C4-PFHpA	15.9		ng/L	19.53		81.4	40-130			
Surrogate: 13C8-PFOA	14.7		ng/L	19.53		75.0	40-130			
Surrogate: 13C9-PFNA	7.55		ng/L	9.767		77.3	40-130			
Surrogate: 13C6-PFDA	7.23		ng/L	9.767		74.1	40-130			

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

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

Batch B401951 - EPA 1633
LCS (B401951-BS1)

Prepared: 04/07/25 Analyzed: 04/08/25

Surrogate: 13C7-PFUnA	6.76		ng/L	9.767		69.2	30-130			
Surrogate: 13C2-PFDoA	5.98		ng/L	9.767		61.3	10-130			
Surrogate: 13C2-PFTeDA	5.91		ng/L	9.767		60.5	10-130			
Surrogate: 13C3-PFBS	16.0		ng/L	19.53		82.0	40-135			
Surrogate: 13C3-PFHxS	15.2		ng/L	19.53		77.6	40-130			
Surrogate: 13C8-PFOS	13.5		ng/L	19.53		69.2	40-130			
Surrogate: 13C2-4:2FTS	32.6		ng/L	39.07		83.5	40-200			
Surrogate: 13C2-6:2FTS	31.9		ng/L	39.07		81.7	40-200			
Surrogate: 13C2-8:2FTS	31.2		ng/L	39.07		79.8	40-300			
Surrogate: 13C8-PFOA	14.0		ng/L	19.53		71.7	40-130			
Surrogate: D3-NMeFOA	10.6		ng/L	19.53		54.2	10-130			
Surrogate: D5-NEtFOA	11.0		ng/L	19.53		56.3	10-130			
Surrogate: D3-NMeFOSAA	25.9		ng/L	39.07		66.3	40-170			
Surrogate: D5-NEtFOSAA	24.7		ng/L	39.07		63.3	25-135			
Surrogate: D7-NMeFOSE	127		ng/L	195.3		65.2	10-130			
Surrogate: D9-NEtFOSE	122		ng/L	195.3		62.4	10-130			
Surrogate: 13C3-HFPO-DA	61.1		ng/L	78.13		78.2	40-130			

MRL Check (B401951-MRL1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	11.3	6.3	ng/L	12.65		89.5	70-140			
Perfluoropentanoic acid (PFPeA)	5.48	3.2	ng/L	6.324		86.6	65-135			
Perfluorohexanoic acid (PFHxA)	2.66	1.6	ng/L	3.162		84.2	70-145			
Perfluoroheptanoic acid (PFHpA)	2.89	1.6	ng/L	3.162		91.3	70-150			
Perfluorooctanoic acid (PFOA)	2.55	1.6	ng/L	3.162		80.7	70-150			
Perfluorononanoic acid (PFNA)	2.86	1.6	ng/L	3.162		90.5	70-150			
Perfluorodecanoic acid (PFDA)	2.88	1.6	ng/L	3.162		91.1	70-140			
Perfluoroundecanoic acid (PFUnA)	2.69	1.6	ng/L	3.162		85.2	70-145			
Perfluorododecanoic acid (PFDoA)	2.90	1.6	ng/L	3.162		91.7	70-140			
Perfluorotridecanoic acid (PFTTrDA)	2.95	1.6	ng/L	3.162		93.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.08	1.6	ng/L	3.162		97.5	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.58	1.6	ng/L	2.808		91.9	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.93	1.6	ng/L	2.972		98.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.43	1.6	ng/L	2.884		84.4	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.02	1.6	ng/L	3.010		100	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.55	1.6	ng/L	2.934		86.8	55-150			
Perfluorononanesulfonic acid (PFNS)	2.74	1.6	ng/L	3.035		90.2	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.59	1.6	ng/L	3.048		84.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.68	1.6	ng/L	3.061		87.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.0	6.3	ng/L	11.85		92.9	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.4	6.3	ng/L	12.03		94.5	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	10.3	6.3	ng/L	12.14		84.8	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.72	1.6	ng/L	3.162		85.9	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOA)	3.23	1.6	ng/L	3.162		102	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOA)	2.90	1.6	ng/L	3.162		91.7	65-145			
N-MeFOSAA (NMeFOSAA)	2.78	1.6	ng/L	3.162		87.9	50-140			
N-EtFOSAA (NEtFOSAA)	2.70	1.6	ng/L	3.162		85.4	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	27.7	16	ng/L	31.62		87.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	27.5	16	ng/L	31.62		87.0	70-135			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401951 - EPA 1633										
MRL Check (B401951-MRL1)				Prepared: 04/07/25 Analyzed: 04/08/25						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.5	6.3	ng/L	12.65		90.7	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.0	6.3	ng/L	11.95		84.0	65-145			
9Cl-PF3ONS (F53B Minor)	11.3	6.3	ng/L	11.80		95.5	70-155			
11Cl-PF3OUdS (F53B Major)	11.9	6.3	ng/L	11.81		101	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.3	7.9	ng/L	15.81		96.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	78.4	40	ng/L	79.05		99.2	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	74.4	40	ng/L	79.05		94.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	4.88	3.2	ng/L	5.641		86.5	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.86	3.2	ng/L	6.324		92.7	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.71	3.2	ng/L	6.324		90.3	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.91	3.2	ng/L	6.324		77.7	50-150			
Surrogate: 13C4-PFBA	59.0		ng/L	79.05		74.7	5-130			
Surrogate: 13C5-PFPeA	29.7		ng/L	39.52		75.3	40-130			
Surrogate: 13C5-PFHxA	15.0		ng/L	19.76		75.7	40-130			
Surrogate: 13C4-PFHpA	15.2		ng/L	19.76		76.7	40-130			
Surrogate: 13C8-PFOA	14.4		ng/L	19.76		73.0	40-130			
Surrogate: 13C9-PFNA	7.37		ng/L	9.881		74.6	40-130			
Surrogate: 13C6-PFDA	6.88		ng/L	9.881		69.6	40-130			
Surrogate: 13C7-PFUnA	7.07		ng/L	9.881		71.6	30-130			
Surrogate: 13C2-PFDoA	6.39		ng/L	9.881		64.6	10-130			
Surrogate: 13C2-PFTeDA	6.01		ng/L	9.881		60.8	10-130			
Surrogate: 13C3-PFBS	16.0		ng/L	19.76		80.9	40-135			
Surrogate: 13C3-PFHxS	14.7		ng/L	19.76		74.5	40-130			
Surrogate: 13C8-PFOS	13.4		ng/L	19.76		67.9	40-130			
Surrogate: 13C2-4:2FTS	32.9		ng/L	39.52		83.2	40-200			
Surrogate: 13C2-6:2FTS	31.3		ng/L	39.52		79.2	40-200			
Surrogate: 13C2-8:2FTS	31.4		ng/L	39.52		79.5	40-300			
Surrogate: 13C8-PFOSA	14.3		ng/L	19.76		72.5	40-130			
Surrogate: D3-NMeFOSA	11.5		ng/L	19.76		58.2	10-130			
Surrogate: D5-NEtFOSA	12.2		ng/L	19.76		61.9	10-130			
Surrogate: D3-NMeFOSAA	27.6		ng/L	39.52		69.9	40-170			
Surrogate: D5-NEtFOSAA	26.6		ng/L	39.52		67.4	25-135			
Surrogate: D7-NMeFOSE	146		ng/L	197.6		73.9	10-130			
Surrogate: D9-NEtFOSE	145		ng/L	197.6		73.4	10-130			
Surrogate: 13C3-HFPO-DA	60.2		ng/L	79.05		76.2	40-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
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.
PF-24	Non-extracted internal standard compound recovery <50%. Re-extracted sample exhibited similar results. Possible high bias present on associated extracted internal standard recoveries
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-13	Elevated reporting limit due to high concentration of non-target compounds.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Perfluorobutanoic acid (PFBA)	NY
Perfluoropentanoic acid (PFPeA)	NY
Perfluorohexanoic acid (PFHxA)	NY
Perfluoroheptanoic acid (PFHpA)	NY
Perfluorooctanoic acid (PFOA)	NY
Perfluorononanoic acid (PFNA)	NY
Perfluorodecanoic acid (PFDA)	NY
Perfluoroundecanoic acid (PFUnA)	NY
Perfluorododecanoic acid (PFDoA)	NY
Perfluorotridecanoic acid (PFTrDA)	NY
Perfluorotetradecanoic acid (PFTeDA)	NY
Perfluorobutanesulfonic acid (PFBS)	NY
Perfluoropentanesulfonic acid (PFPeS)	NY
Perfluorohexanesulfonic acid (PFHxS)	NY
Perfluoroheptanesulfonic acid (PFHpS)	NY
Perfluorooctanesulfonic acid (PFOS)	NY
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NY
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NY
N-MeFOSAA (NMeFOSAA)	NY
N-EtFOSAA (NEtFOSAA)	NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NY
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NY
9Cl-PF3ONS (F53B Minor)	NY
11Cl-PF3OUdS (F53B Major)	NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY
<i>EPA 624.1 in Water</i>	
Benzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromodichloromethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromoform	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromomethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloroform	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloromethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
cis-1,2-Dichloroethylene	NY,MA,NJ
1,1-Dichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,NJ,NC,RI,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 624.1 in Water</i>	
cis-1,3-Dichloropropene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,4-Dioxane	MA,NH
trans-1,3-Dichloropropene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Ethylbenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,MA,NH,NJ,NC
Methylene Chloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Toluene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Trichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Vinyl Chloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
m+p Xylene	CT,NY,MA,NH,NJ,NC,RI
o-Xylene	CT,NY,MA,NH,NJ,NC,RI

SW-846 8270E in Water

1,4-Dioxane NY,NH,NJ

Pace Analytical Services, LLC - East Longmeadow, Ma, 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	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

Effective Date: 06/11/2024

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

Short Hold: Yes / No Notify

All Samples Proper pH: ☒ N/A ☐ ☐

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

Effective Date: 06/11/2024

[illegible]

May 13, 2025

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

Project Location: Utica, NY
Client Job Number:
Project Number: 633045
Laboratory Work Order Number: 25C1285

Enclosed are results of analyses for samples as received by the laboratory on March 21, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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: 5/13/2025

PURCHASE ORDER NUMBER: 152951

PROJECT NUMBER: 633045

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C1285

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Utica, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-14 03192025	25C1285-01	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
BR-3 03192025	25C1285-02	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-7R 03192025	25C1285-03	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-1 03192025	25C1285-04	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
MW-8 03192025	25C1285-05	Water		Draft Method 1633 EPA 624.1 SW-846 8270E	
Field Blank	25C1285-06	Field Blank		Draft Method 1633 SW-846 8270E	
Equip Blank	25C1285-07	Equipment Blank Water		Draft Method 1633	
Trip Blank	25C1285-08	Trip Blank Water		EPA 624.1	

CASE NARRATIVE SUMMARY

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

REVISED 5/13/25: 624.1 VOA results revised to add Cis-1,2-Dichloroethylene to reported compound list, per client request.

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

Draft Method 1633

Qualifications:

PF-18

Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C4-PFBA

25C1285-01[MW-14 03192025]

Perfluorobutanoic acid (PFBA)

25C1285-01[MW-14 03192025]

PF-23

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

Analyte & Samples(s) Qualified:

Perfluoroheptanoic acid (PFHpA)

25C1285-01[MW-14 03192025]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C5-PFPeA

25C1285-01[MW-14 03192025]

3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTC^A

25C1285-01[MW-14 03192025]

D3-NMeFOSAA

25C1285-05[MW-8 03192025]

N-MeFOSAA (NMeFOSAA)

25C1285-05[MW-8 03192025]

Perfluoro-3-methoxypropanoic acid (PFMPA)

25C1285-01[MW-14 03192025]

Perfluoro-4-methoxybutanoic acid (PFMBA)

25C1285-01[MW-14 03192025]

Perfluoropentanoic acid (PFPeA)

25C1285-01[MW-14 03192025]

EPA 624.1

Qualifications:

L-01

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

Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene

B401500-BS1

L-03

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

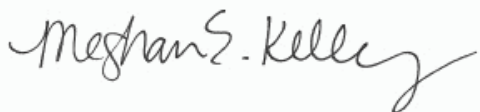
Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene

25C1285-01[MW-14 03192025], 25C1285-03[MW-7R 03192025], 25C1285-04[MW-1 03192025], 25C1285-05[MW-8 03192025], 25C1285-08[Trip Blank], B401357-BLK1, B401357-BS1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, 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.

A handwritten signature in black ink that reads "Meghan E. Kelley".

Meghan E. Kelley
Reporting Specialist

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-14 03192025

Sampled: 3/19/2025 13:30

Sample ID: 25C1285-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	6.58	1.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Chlorobenzene	11.6	2.00	0.177	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,2-Dichlorobenzene	5.84	2.00	0.175	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Ethylbenzene	15.8	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Toluene	5.49	1.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
m+p Xylene	105	2.00	0.246	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
o-Xylene	68.4	1.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/24/25 15:49	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.5		70-130							
Toluene-d8	99.2		70-130							
4-Bromofluorobenzene	92.4		70-130							



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-14 03192025

Sampled: 3/19/2025 13:30

Sample ID: 25C1285-01

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:36	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		28.2		15-110				3/26/25 15:36		

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-14 03192025

Sampled: 3/19/2025 13:30

Sample ID: 25C1285-01

Sample Matrix: 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	6.7	0.84	ng/L	1	PF-18	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorohexanoic acid (PFHxA)	1.6	1.7	0.29	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroheptanoic acid (PFHpA)	0.82	1.7	0.30	ng/L	1	PF-23, J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanoic acid (PFOA)	4.1	1.7	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanesulfonic acid (PFOS)	0.44	1.7	0.42	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.98	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
11Cl-PF3OUs (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	42	9.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	46	3.4	0.48	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-14 03192025

Sampled: 3/19/2025 13:30

Sample ID: 25C1285-01

Sample Matrix: 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	3.4	0.45	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	2.66	*	5-130		PF-18			4/2/25	19:03	
13C5-PFPeA	32.4	*	40-130		S-29			4/2/25	19:03	
13C5-PFHxA	74.9		40-130					4/2/25	19:03	
13C4-PFHpA	70.8		40-130					4/2/25	19:03	
13C8-PFOA	93.0		40-130					4/2/25	19:03	
13C9-PFNA	71.9		40-130					4/2/25	19:03	
13C6-PFDA	72.2		40-130					4/2/25	19:03	
13C7-PFUnA	76.8		30-130					4/2/25	19:03	
13C2-PFDoA	58.6		10-130					4/2/25	19:03	
13C2-PFTeDA	23.2		10-130					4/2/25	19:03	
13C3-PFBS	62.5		40-135					4/2/25	19:03	
13C3-PFHxS	74.8		40-130					4/2/25	19:03	
13C8-PFOS	72.3		40-130					4/2/25	19:03	
13C2-4:2FTS	189		40-200					4/2/25	19:03	
13C2-6:2FTS	187		40-200					4/2/25	19:03	
13C2-8:2FTS	242		40-300					4/2/25	19:03	
13C8-PFOSA	69.3		40-130					4/2/25	19:03	
D3-NMeFOSA	54.5		10-130					4/2/25	19:03	
D5-NEtFOSA	50.1		10-130					4/2/25	19:03	
D3-NMeFOSAA	81.7		40-170					4/2/25	19:03	
D5-NEtFOSAA	96.8		25-135					4/2/25	19:03	
D7-NMeFOSE	32.3		10-130					4/2/25	19:03	
D9-NEtFOSE	26.1		10-130					4/2/25	19:03	
13C3-HFPO-DA	63.1		40-130					4/2/25	19:03	

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025

Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.187	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Bromodichloromethane	ND	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Bromoform	ND	2.00	0.317	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Bromomethane	ND	2.00	0.913	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Carbon Tetrachloride	ND	2.00	0.176	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Chlorobenzene	ND	2.00	0.117	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Chlorodibromomethane	ND	2.00	0.122	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Chloroethane	ND	2.00	0.431	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Chloroform	ND	2.00	0.138	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Chloromethane	ND	2.00	0.386	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,2-Dichlorobenzene	ND	2.00	0.131	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,3-Dichlorobenzene	ND	2.00	0.135	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,4-Dichlorobenzene	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,2-Dichloroethane	ND	2.00	0.279	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,1-Dichloroethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,1-Dichloroethylene	ND	2.00	0.153	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.188	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,2-Dichloropropane	ND	2.00	0.198	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
cis-1,3-Dichloropropene	ND	2.00	0.161	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
trans-1,3-Dichloropropene	ND	2.00	0.159	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Ethylbenzene	ND	2.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.112	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Methylene Chloride	ND	5.00	0.165	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.115	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Tetrachloroethylene	ND	2.00	0.147	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Toluene	ND	1.00	0.109	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,1,1-Trichloroethane	ND	2.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
1,1,2-Trichloroethane	ND	2.00	0.152	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Trichloroethylene	ND	2.00	0.156	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.161	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Vinyl Chloride	ND	2.00	0.217	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
m+p Xylene	ND	2.00	0.303	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
o-Xylene	ND	1.00	0.159	µg/L	1		EPA 624.1	3/21/25	3/26/25 0:26	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	104	70-130								
Toluene-d8	102	70-130								
4-Bromofluorobenzene	90.9	70-130								



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025

Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:56	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		30.9		15-110				3/26/25 15:56		

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025

Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: 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	5.7	0.71	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoropentanoic acid (PFPeA)	ND	2.8	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorohexanoic acid (PFHxA)	ND	1.4	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.4	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanoic acid (PFOA)	ND	1.4	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorononanoic acid (PFNA)	ND	1.4	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorodecanoic acid (PFDA)	ND	1.4	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.4	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorododecanoic acid (PFDoA)	ND	1.4	0.31	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	0.14	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.4	0.31	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.4	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.4	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.4	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.4	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	0.64	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	2.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	2.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	0.24	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-MeFOSAA (NMeFOSAA)	ND	1.4	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-EtFOSAA (NEtFOSAA)	ND	1.4	0.57	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
9Cl-PF3ONS (F53B Minor)	ND	5.7	0.83	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
11Cl-PF3OUs (F53B Major)	ND	5.7	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.1	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	36	6.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	8.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.8	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.8	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025

Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: 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	2.8	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.8	1.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.8		5-130				4/2/25 19:42			
13C5-PFPeA	73.5		40-130				4/2/25 19:42			
13C5-PFHxA	75.0		40-130				4/2/25 19:42			
13C4-PFHpA	68.4		40-130				4/2/25 19:42			
13C8-PFOA	88.3		40-130				4/2/25 19:42			
13C9-PFNA	69.8		40-130				4/2/25 19:42			
13C6-PFDA	68.0		40-130				4/2/25 19:42			
13C7-PFUnA	65.9		30-130				4/2/25 19:42			
13C2-PFDoA	54.6		10-130				4/2/25 19:42			
13C2-PFTeDA	48.9		10-130				4/2/25 19:42			
13C3-PFBS	64.6		40-135				4/2/25 19:42			
13C3-PFHxS	74.3		40-130				4/2/25 19:42			
13C8-PFOS	65.2		40-130				4/2/25 19:42			
13C2-4:2FTS	63.4		40-200				4/2/25 19:42			
13C2-6:2FTS	74.4		40-200				4/2/25 19:42			
13C2-8:2FTS	71.4		40-300				4/2/25 19:42			
13C8-PFOSA	57.6		40-130				4/2/25 19:42			
D3-NMeFOSA	46.3		10-130				4/2/25 19:42			
D5-NEtFOSA	44.0		10-130				4/2/25 19:42			
D3-NMeFOSAA	48.7		40-170				4/2/25 19:42			
D5-NEtFOSAA	48.6		25-135				4/2/25 19:42			
D7-NMeFOSE	41.7		10-130				4/2/25 19:42			
D9-NEtFOSE	39.1		10-130				4/2/25 19:42			
13C3-HFPO-DA	80.3		40-130				4/2/25 19:42			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sampled: 3/19/2025 16:10

Sample ID: 25C1285-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/24/25 16:42	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	99.4	70-130				3/24/25 16:42				
Toluene-d8	102	70-130				3/24/25 16:42				
4-Bromofluorobenzene	84.5	70-130				3/24/25 16:42				



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sampled: 3/19/2025 16:10

Sample ID: 25C1285-03

Sample Matrix: 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	0.23	0.21	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:16	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.4		15-110				3/26/25 16:16			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sampled: 3/19/2025 16:10

Sample ID: 25C1285-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.0	6.4	0.80	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoropentanoic acid (PFPeA)	0.92	3.2	0.44	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorohexanoic acid (PFHxA)	0.34	1.6	0.28	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanoic acid (PFOA)	ND	1.6	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorononanoic acid (PFNA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.62	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.72	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.4	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.4	3.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.4	3.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.4	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.4	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
9Cl-PF3ONS (F53B Minor)	ND	6.4	0.93	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
11Cl-PF3OUDs (F53B Major)	ND	6.4	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.0	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	40	8.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.57	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sampled: 3/19/2025 16:10

Sample ID: 25C1285-03

Sample Matrix: 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	3.2	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	82.3		5-130				4/2/25 19:51			
13C5-PFPeA	76.4		40-130				4/2/25 19:51			
13C5-PFHxA	79.9		40-130				4/2/25 19:51			
13C4-PFHpA	73.4		40-130				4/2/25 19:51			
13C8-PFOA	90.8		40-130				4/2/25 19:51			
13C9-PFNA	77.8		40-130				4/2/25 19:51			
13C6-PFDA	75.3		40-130				4/2/25 19:51			
13C7-PFUnA	68.7		30-130				4/2/25 19:51			
13C2-PFDoA	55.6		10-130				4/2/25 19:51			
13C2-PFTeDA	47.6		10-130				4/2/25 19:51			
13C3-PFBS	68.0		40-135				4/2/25 19:51			
13C3-PFHxS	79.0		40-130				4/2/25 19:51			
13C8-PFOS	73.5		40-130				4/2/25 19:51			
13C2-4:2FTS	47.5		40-200				4/2/25 19:51			
13C2-6:2FTS	64.6		40-200				4/2/25 19:51			
13C2-8:2FTS	66.9		40-300				4/2/25 19:51			
13C8-PFOA	61.4		40-130				4/2/25 19:51			
D3-NMeFOSA	52.1		10-130				4/2/25 19:51			
D5-NEtFOSA	49.3		10-130				4/2/25 19:51			
D3-NMeFOSAA	50.9		40-170				4/2/25 19:51			
D5-NEtFOSAA	52.6		25-135				4/2/25 19:51			
D7-NMeFOSE	45.8		10-130				4/2/25 19:51			
D9-NEtFOSE	42.9		10-130				4/2/25 19:51			
13C3-HFPO-DA	82.6		40-130				4/2/25 19:51			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-1 03192025

Sampled: 3/19/2025 16:20

Sample ID: 25C1285-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:09	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	103	70-130							3/24/25 17:09	
Toluene-d8	99.9	70-130							3/24/25 17:09	
4-Bromofluorobenzene	82.8	70-130							3/24/25 17:09	



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-1 03192025

Sampled: 3/19/2025 16:20

Sample ID: 25C1285-04

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:36	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.6		15-110				3/26/25 16:36			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-1 03192025

Sampled: 3/19/2025 16:20

Sample ID: 25C1285-04

Sample Matrix: 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)	0.89	5.8	0.73	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanoic acid (PFOA)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorobutanesulfonic acid (PFBS)	1.0	1.5	0.31	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.56	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.8	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.8	2.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.8	3.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.8	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.8	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
9Cl-PF3ONS (F53B Minor)	ND	5.8	0.85	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
11Cl-PF3OUDs (F53B Major)	ND	5.8	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.3	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	36	6.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	8.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-1 03192025

Sampled: 3/19/2025 16:20

Sample ID: 25C1285-04

Sample Matrix: 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	2.9	0.39	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	83.9		5-130				4/2/25 20:00			
13C5-PFPeA	79.5		40-130				4/2/25 20:00			
13C5-PFHxA	80.8		40-130				4/2/25 20:00			
13C4-PFHpA	77.2		40-130				4/2/25 20:00			
13C8-PFOA	97.3		40-130				4/2/25 20:00			
13C9-PFNA	80.1		40-130				4/2/25 20:00			
13C6-PFDA	76.4		40-130				4/2/25 20:00			
13C7-PFUnA	78.1		30-130				4/2/25 20:00			
13C2-PFDoA	68.5		10-130				4/2/25 20:00			
13C2-PFTeDA	60.3		10-130				4/2/25 20:00			
13C3-PFBS	74.3		40-135				4/2/25 20:00			
13C3-PFHxS	82.8		40-130				4/2/25 20:00			
13C8-PFOS	81.6		40-130				4/2/25 20:00			
13C2-4:2FTS	59.0		40-200				4/2/25 20:00			
13C2-6:2FTS	75.6		40-200				4/2/25 20:00			
13C2-8:2FTS	79.1		40-300				4/2/25 20:00			
13C8-PFOSA	67.6		40-130				4/2/25 20:00			
D3-NMeFOSA	58.1		10-130				4/2/25 20:00			
D5-NEtFOSA	51.9		10-130				4/2/25 20:00			
D3-NMeFOSAA	58.2		40-170				4/2/25 20:00			
D5-NEtFOSAA	59.2		25-135				4/2/25 20:00			
D7-NMeFOSE	52.9		10-130				4/2/25 20:00			
D9-NEtFOSE	49.5		10-130				4/2/25 20:00			
13C3-HFPO-DA	88.5		40-130				4/2/25 20:00			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-8 03192025

Sampled: 3/20/2025 09:38

Sample ID: 25C1285-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Toluene	1.13	1.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/24/25 17:36	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	106		70-130							
Toluene-d8	99.8		70-130							
4-Bromofluorobenzene	88.1		70-130							



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-8 03192025

Sampled: 3/20/2025 09:38

Sample ID: 25C1285-05

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:56	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.5		15-110				3/26/25 16:56			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-8 03192025

Sampled: 3/20/2025 09:38

Sample ID: 25C1285-05

Sample Matrix: 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)	7.9	6.2	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanoic acid (PFOA)	ND	1.5	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.63	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanesulfonic acid (PFOS)	0.49	1.5	0.38	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.90	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
11Cl-PF3OUs (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	39	8.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-8 03192025

Sampled: 3/20/2025 09:38

Sample ID: 25C1285-05

Sample Matrix: 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	3.1	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.3		5-130				4/2/25 20:09			
13C5-PFPeA	74.3		40-130				4/2/25 20:09			
13C5-PFHxA	74.2		40-130				4/2/25 20:09			
13C4-PFHpA	71.5		40-130				4/2/25 20:09			
13C8-PFOA	82.5		40-130				4/2/25 20:09			
13C9-PFNA	67.9		40-130				4/2/25 20:09			
13C6-PFDA	63.6		40-130				4/2/25 20:09			
13C7-PFUnA	63.6		30-130				4/2/25 20:09			
13C2-PFDoA	44.3		10-130				4/2/25 20:09			
13C2-PFTeDA	23.8		10-130				4/2/25 20:09			
13C3-PFBS	64.9		40-135				4/2/25 20:09			
13C3-PFHxS	72.6		40-130				4/2/25 20:09			
13C8-PFOS	62.4		40-130				4/2/25 20:09			
13C2-4:2FTS	52.9		40-200				4/2/25 20:09			
13C2-6:2FTS	58.0		40-200				4/2/25 20:09			
13C2-8:2FTS	60.4		40-300				4/2/25 20:09			
13C8-PFOSA	56.6		40-130				4/2/25 20:09			
D3-NMeFOSA	43.6		10-130				4/2/25 20:09			
D5-NEtFOSA	35.0		10-130				4/2/25 20:09			
D3-NMeFOSAA	34.5	*	40-170		S-29		4/2/25 20:09			
D5-NEtFOSAA	34.7		25-135				4/2/25 20:09			
D7-NMeFOSE	29.5		10-130				4/2/25 20:09			
D9-NEtFOSE	21.2		10-130				4/2/25 20:09			
13C3-HFPO-DA	79.1		40-130				4/2/25 20:09			



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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Field Blank

Sampled: 3/20/2025 10:20

Sample ID: 25C1285-06

Sample Matrix: Field Blank

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	0.19	0.17	µg/L	1		SW-846 8270E	3/24/25	3/26/25 22:13	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		24.9		15-110				3/26/25 22:13		

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Field Blank

Sampled: 3/20/2025 10:20

Sample ID: 25C1285-06

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	6.7	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanoic acid (PFOA)	ND	1.7	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.98	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
11Cl-PF3OUs (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	42	9.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB

Project Location: Utica, NY 39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
 Date Received: 3/21/2025 Sample Description: Work Order: 25C1285
 Field Sample #: Field Blank Sampled: 3/20/2025 10:20
 Sample ID: 25C1285-06
 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	3.3	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	84.3		5-130				4/2/25 20:19			
13C5-PFPeA	81.2		40-130				4/2/25 20:19			
13C5-PFHxA	82.3		40-130				4/2/25 20:19			
13C4-PFHpA	74.3		40-130				4/2/25 20:19			
13C8-PFOA	96.9		40-130				4/2/25 20:19			
13C9-PFNA	80.2		40-130				4/2/25 20:19			
13C6-PFDA	76.8		40-130				4/2/25 20:19			
13C7-PFUnA	82.1		30-130				4/2/25 20:19			
13C2-PFDoA	70.7		10-130				4/2/25 20:19			
13C2-PFTeDA	63.8		10-130				4/2/25 20:19			
13C3-PFBS	72.2		40-135				4/2/25 20:19			
13C3-PFHxS	85.0		40-130				4/2/25 20:19			
13C8-PFOS	80.0		40-130				4/2/25 20:19			
13C2-4:2FTS	81.0		40-200				4/2/25 20:19			
13C2-6:2FTS	88.6		40-200				4/2/25 20:19			
13C2-8:2FTS	88.5		40-300				4/2/25 20:19			
13C8-PFOSA	62.4		40-130				4/2/25 20:19			
D3-NMeFOSA	56.9		10-130				4/2/25 20:19			
D5-NEtFOSA	52.7		10-130				4/2/25 20:19			
D3-NMeFOSAA	63.4		40-170				4/2/25 20:19			
D5-NEtFOSAA	68.3		25-135				4/2/25 20:19			
D7-NMeFOSE	51.9		10-130				4/2/25 20:19			
D9-NEtFOSE	49.8		10-130				4/2/25 20:19			
13C3-HFPO-DA	83.5		40-130				4/2/25 20:19			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Equip Blank

Sampled: 3/20/2025 10:15

Sample ID: 25C1285-07

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.9	0.86	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanoic acid (PFOA)	ND	1.7	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.70	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.17	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.91	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.9	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.9	3.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.9	3.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.9	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.9	0.91	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
9Cl-PF3ONS (F53B Minor)	ND	6.9	1.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
11Cl-PF3OUDs (F53B Major)	ND	6.9	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.6	2.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	43	9.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.61	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Equip Blank

Sampled: 3/20/2025 10:15

Sample ID: 25C1285-07

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.4	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	81.1		5-130				4/2/25 20:28			
13C5-PFPeA	78.2		40-130				4/2/25 20:28			
13C5-PFHxA	78.8		40-130				4/2/25 20:28			
13C4-PFHpA	71.6		40-130				4/2/25 20:28			
13C8-PFOA	96.6		40-130				4/2/25 20:28			
13C9-PFNA	81.0		40-130				4/2/25 20:28			
13C6-PFDA	81.5		40-130				4/2/25 20:28			
13C7-PFUnA	80.0		30-130				4/2/25 20:28			
13C2-PFDoA	70.8		10-130				4/2/25 20:28			
13C2-PFTeDA	64.6		10-130				4/2/25 20:28			
13C3-PFBS	67.1		40-135				4/2/25 20:28			
13C3-PFHxS	81.2		40-130				4/2/25 20:28			
13C8-PFOS	77.5		40-130				4/2/25 20:28			
13C2-4:2FTS	77.5		40-200				4/2/25 20:28			
13C2-6:2FTS	82.8		40-200				4/2/25 20:28			
13C2-8:2FTS	82.7		40-300				4/2/25 20:28			
13C8-PFOSA	63.4		40-130				4/2/25 20:28			
D3-NMeFOSA	59.1		10-130				4/2/25 20:28			
D5-NEtFOSA	53.9		10-130				4/2/25 20:28			
D3-NMeFOSAA	63.2		40-170				4/2/25 20:28			
D5-NEtFOSAA	68.7		25-135				4/2/25 20:28			
D7-NMeFOSE	51.5		10-130				4/2/25 20:28			
D9-NEtFOSE	50.0		10-130				4/2/25 20:28			
13C3-HFPO-DA	86.4		40-130				4/2/25 20:28			

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

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Trip Blank

Sampled: 3/20/2025 00:00

Sample ID: 25C1285-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Bromodichloromethane	ND	2.00	0.185	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Bromoform	ND	2.00	0.300	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Bromomethane	ND	2.00	1.48	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Carbon Tetrachloride	ND	2.00	0.195	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Chlorobenzene	ND	2.00	0.177	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Chlorodibromomethane	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Chloroethane	ND	2.00	0.458	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Chloroform	ND	2.00	0.191	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Chloromethane	ND	2.00	0.497	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,2-Dichlorobenzene	ND	2.00	0.175	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,3-Dichlorobenzene	ND	2.00	0.154	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,4-Dichlorobenzene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,2-Dichloroethane	ND	2.00	0.127	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
cis-1,2-Dichloroethylene	ND	1.00	0.202	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,1-Dichloroethane	ND	2.00	0.150	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,1-Dichloroethylene	ND	2.00	0.180	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
trans-1,2-Dichloroethylene	ND	2.00	0.156	µg/L	1	L-03	EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,2-Dichloropropane	ND	2.00	0.170	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
cis-1,3-Dichloropropene	ND	2.00	0.128	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
trans-1,3-Dichloropropene	ND	2.00	0.144	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Ethylbenzene	ND	2.00	0.137	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Methylene Chloride	ND	5.00	0.190	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,1,2,2-Tetrachloroethane	ND	2.00	0.102	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Tetrachloroethylene	ND	2.00	0.167	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Toluene	ND	1.00	0.114	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,1,1-Trichloroethane	ND	2.00	0.140	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
1,1,2-Trichloroethane	ND	2.00	0.182	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Trichloroethylene	ND	2.00	0.166	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Trichlorofluoromethane (Freon 11)	ND	2.00	0.143	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Vinyl Chloride	ND	2.00	0.194	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
m+p Xylene	ND	2.00	0.246	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
o-Xylene	ND	1.00	0.155	µg/L	1		EPA 624.1	3/21/25	3/24/25 11:48	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	104	70-130							3/24/25 11:48	
Toluene-d8	101	70-130							3/24/25 11:48	
4-Bromofluorobenzene	83.4	70-130							3/24/25 11:48	

Sample Extraction Data**Prep Method:EPA 1633 Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1285-01 [MW-14 03192025]	B401487	477	4.00	03/27/25
25C1285-02 [BR-3 03192025]	B401487	562	4.00	03/27/25
25C1285-03 [MW-7R 03192025]	B401487	503	4.00	03/27/25
25C1285-04 [MW-1 03192025]	B401487	549	4.00	03/27/25
25C1285-05 [MW-8 03192025]	B401487	518	4.00	03/27/25
25C1285-06 [Field Blank]	B401487	478	4.00	03/27/25
25C1285-07 [Equip Blank]	B401487	465	4.00	03/27/25

Prep Method:SW-846 5030B Analytical Method:EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1285-01 [MW-14 03192025]	B401357	5	5.00	03/21/25
25C1285-03 [MW-7R 03192025]	B401357	5	5.00	03/21/25
25C1285-04 [MW-1 03192025]	B401357	5	5.00	03/21/25
25C1285-05 [MW-8 03192025]	B401357	5	5.00	03/21/25
25C1285-08 [Trip Blank]	B401357	5	5.00	03/21/25

Prep Method:SW-846 5030B Analytical Method:EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1285-02 [BR-3 03192025]	B401500	5	5.00	03/21/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1285-01 [MW-14 03192025]	B401474	940	1.00	03/24/25
25C1285-02 [BR-3 03192025]	B401474	960	1.00	03/24/25
25C1285-03 [MW-7R 03192025]	B401474	870	1.00	03/24/25
25C1285-04 [MW-1 03192025]	B401474	1010	1.00	03/24/25
25C1285-05 [MW-8 03192025]	B401474	1010	1.00	03/24/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1285-06 [Field Blank]	B401479	1040	1.00	03/24/25

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 B401357 - SW-846 5030B

Blank (B401357-BLK1)

Prepared: 03/21/25 Analyzed: 03/24/25

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							L-03
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.2		µg/L	25.00		105	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.00		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	19.4		µg/L	25.00		77.4	70-130			

LCS (B401357-BS1)

Prepared: 03/21/25 Analyzed: 03/24/25

Benzene	16	1.00	µg/L	20.00		77.7	65-135			
Bromodichloromethane	17	2.00	µg/L	20.00		85.2	65-135			
Bromoform	14	2.00	µg/L	20.00		70.9	70-130			
Bromomethane	11	2.00	µg/L	20.00		52.8	15-185			
Carbon Tetrachloride	16	2.00	µg/L	20.00		81.6	70-130			
Chlorobenzene	17	2.00	µg/L	20.00		83.8	65-135			
Chlorodibromomethane	16	2.00	µg/L	20.00		78.8	70-135			
Chloroethane	13	2.00	µg/L	20.00		64.5	40-160			
Chloroform	16	2.00	µg/L	20.00		81.6	70-135			
Chloromethane	8.8	2.00	µg/L	20.00		43.8	20-205			
1,2-Dichlorobenzene	18	2.00	µg/L	20.00		90.3	65-135			
1,3-Dichlorobenzene	17	2.00	µg/L	20.00		86.5	70-130			
1,4-Dichlorobenzene	16	2.00	µg/L	20.00		80.6	65-135			

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

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

Batch B401357 - SW-846 5030B
LCS (B401357-BS1)

Prepared: 03/21/25 Analyzed: 03/24/25

1,2-Dichloroethane	17	2.00	µg/L	20.00		83.8	70-130			
cis-1,2-Dichloroethylene	16	1.00	µg/L	20.00		81.0	70-130			
1,1-Dichloroethane	16	2.00	µg/L	20.00		78.0	70-130			
1,1-Dichloroethylene	15	2.00	µg/L	20.00		74.6	50-150			
trans-1,2-Dichloroethylene	13	2.00	µg/L	20.00		64.4	* 70-130			L-03
1,2-Dichloropropane	17	2.00	µg/L	20.00		83.6	35-165			
cis-1,3-Dichloropropene	16	2.00	µg/L	20.00		78.7	25-175			
trans-1,3-Dichloropropene	17	2.00	µg/L	20.00		86.4	50-150			
Ethylbenzene	17	2.00	µg/L	20.00		84.9	60-140			
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00		75.1	70-130			
Methylene Chloride	15	5.00	µg/L	20.00		74.4	60-140			
1,1,2,2-Tetrachloroethane	16	2.00	µg/L	20.00		81.0	60-140			
Tetrachloroethylene	16	2.00	µg/L	20.00		80.5	70-130			
Toluene	16	1.00	µg/L	20.00		80.0	70-130			
1,1,1-Trichloroethane	17	2.00	µg/L	20.00		84.0	70-130			
1,1,2-Trichloroethane	17	2.00	µg/L	20.00		84.0	70-130			
Trichloroethylene	16	2.00	µg/L	20.00		78.8	65-135			
Trichlorofluoromethane (Freon 11)	15	2.00	µg/L	20.00		74.8	50-150			
Vinyl Chloride	10	2.00	µg/L	20.00		49.8	5-195			
m+p Xylene	33	2.00	µg/L	40.00		82.1	70-130			
o-Xylene	17	1.00	µg/L	20.00		83.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.00		98.7	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.00		95.0	70-130			

Batch B401500 - SW-846 5030B
Blank (B401500-BLK1)

Prepared & Analyzed: 03/25/25

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401500 - SW-846 5030B										
Blank (B401500-BLK1)				Prepared & Analyzed: 03/25/25						
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	22.4		µg/L	25.00		89.5	70-130			
LCS (B401500-BS1)				Prepared & Analyzed: 03/25/25						
Benzene	16	1.00	µg/L	20.00		78.8	65-135			
Bromodichloromethane	17	2.00	µg/L	20.00		86.8	65-135			
Bromoform	15	2.00	µg/L	20.00		73.0	70-130			
Bromomethane	9.4	2.00	µg/L	20.00		47.0	15-185			
Carbon Tetrachloride	16	2.00	µg/L	20.00		79.8	70-130			
Chlorobenzene	17	2.00	µg/L	20.00		85.0	65-135			
Chlorodibromomethane	16	2.00	µg/L	20.00		81.8	70-135			
Chloroethane	13	2.00	µg/L	20.00		67.0	40-160			
Chloroform	17	2.00	µg/L	20.00		86.4	70-135			
Chloromethane	9.0	2.00	µg/L	20.00		44.8	20-205			
1,2-Dichlorobenzene	17	2.00	µg/L	20.00		86.2	65-135			
1,3-Dichlorobenzene	17	2.00	µg/L	20.00		85.7	70-130			
1,4-Dichlorobenzene	17	2.00	µg/L	20.00		82.6	65-135			
1,2-Dichloroethane	18	2.00	µg/L	20.00		87.8	70-130			
cis-1,2-Dichloroethylene	17	1.00	µg/L	20.00		82.7	70-130			
1,1-Dichloroethane	16	2.00	µg/L	20.00		79.8	70-130			
1,1-Dichloroethylene	15	2.00	µg/L	20.00		73.6	50-150			
trans-1,2-Dichloroethylene	13	2.00	µg/L	20.00		65.2	* 70-130			L-01
1,2-Dichloropropane	17	2.00	µg/L	20.00		84.6	35-165			
cis-1,3-Dichloropropene	16	2.00	µg/L	20.00		81.2	25-175			
trans-1,3-Dichloropropene	18	2.00	µg/L	20.00		89.2	50-150			
Ethylbenzene	17	2.00	µg/L	20.00		85.6	60-140			
Methyl tert-Butyl Ether (MTBE)	15	2.00	µg/L	20.00		75.6	70-130			
Methylene Chloride	15	5.00	µg/L	20.00		73.6	60-140			
1,1,2,2-Tetrachloroethane	17	2.00	µg/L	20.00		86.1	60-140			
Tetrachloroethylene	16	2.00	µg/L	20.00		80.2	70-130			
Toluene	17	1.00	µg/L	20.00		84.3	70-130			
1,1,1-Trichloroethane	16	2.00	µg/L	20.00		80.4	70-130			
1,1,2-Trichloroethane	18	2.00	µg/L	20.00		90.4	70-130			
Trichloroethylene	16	2.00	µg/L	20.00		78.6	65-135			
Trichlorofluoromethane (Freon 11)	14	2.00	µg/L	20.00		70.0	50-150			
Vinyl Chloride	9.6	2.00	µg/L	20.00		47.9	5-195			
m+p Xylene	34	2.00	µg/L	40.00		83.8	70-130			
o-Xylene	17	1.00	µg/L	20.00		87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.00		97.9	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.00		96.3	70-130			

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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 B401474 - SW-846 3510C										
Blank (B401474-BLK1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	3.02		µg/L	10.00		30.2	15-110			
LCS (B401474-BS1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	10.5	0.20	µg/L	10.00		105	40-140			
Surrogate: 1,4-Dioxane-d8	3.44		µg/L	10.00		34.4	15-110			
LCS Dup (B401474-BSD1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140	10.4	30	
Surrogate: 1,4-Dioxane-d8	3.26		µg/L	10.00		32.6	15-110			
Batch B401479 - SW-846 3510C										
Blank (B401479-BLK1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.96		µg/L	10.00		29.6	15-110			
LCS (B401479-BS1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	11.3	0.20	µg/L	10.00		113	40-140			
Surrogate: 1,4-Dioxane-d8	2.67		µg/L	10.00		26.7	15-110			
LCS Dup (B401479-BSD1)				Prepared: 03/24/25 Analyzed: 03/26/25						
1,4-Dioxane	12.0	0.20	µg/L	10.00		120	40-140	6.48	30	
Surrogate: 1,4-Dioxane-d8	2.74		µg/L	10.00		27.4	15-110			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401487 - EPA 1633										
Blank (B401487-BLK1)										
Prepared: 03/27/25 Analyzed: 04/02/25										
Perfluorobutanoic acid (PFBA)	ND	6.1	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.5	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.5	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.5	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.5	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.5	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.1	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.1	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	73.6		ng/L	76.84		95.7	5-130			

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

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

Batch B401487 - EPA 1633
Blank (B401487-BLK1)

Prepared: 03/27/25 Analyzed: 04/02/25

Surrogate: 13C5-PFPeA	35.1		ng/L	38.42		91.4	40-130			
Surrogate: 13C5-PFHxA	18.5		ng/L	19.21		96.5	40-130			
Surrogate: 13C4-PFHpA	17.6		ng/L	19.21		91.8	40-130			
Surrogate: 13C8-PFOA	20.4		ng/L	19.21		106	40-130			
Surrogate: 13C9-PFNA	8.57		ng/L	9.605		89.2	40-130			
Surrogate: 13C6-PFDA	9.04		ng/L	9.605		94.1	40-130			
Surrogate: 13C7-PFUnA	9.22		ng/L	9.605		95.9	30-130			
Surrogate: 13C2-PFDoA	7.95		ng/L	9.605		82.8	10-130			
Surrogate: 13C2-PFTeDA	7.19		ng/L	9.605		74.9	10-130			
Surrogate: 13C3-PFBS	16.4		ng/L	19.21		85.4	40-135			
Surrogate: 13C3-PFHxS	19.1		ng/L	19.21		99.2	40-130			
Surrogate: 13C8-PFOS	17.1		ng/L	19.21		89.0	40-130			
Surrogate: 13C2-4:2FTS	42.8		ng/L	38.42		111	40-200			
Surrogate: 13C2-6:2FTS	37.8		ng/L	38.42		98.3	40-200			
Surrogate: 13C2-8:2FTS	39.1		ng/L	38.42		102	40-300			
Surrogate: 13C8-PFOA	14.8		ng/L	19.21		77.2	40-130			
Surrogate: D3-NMeFOSA	12.8		ng/L	19.21		66.7	10-130			
Surrogate: D5-NEtFOSA	11.7		ng/L	19.21		60.8	10-130			
Surrogate: D3-NMeFOSAA	29.1		ng/L	38.42		75.7	40-170			
Surrogate: D5-NEtFOSAA	30.9		ng/L	38.42		80.5	25-135			
Surrogate: D7-NMeFOSE	123		ng/L	192.1		64.2	10-130			
Surrogate: D9-NEtFOSE	119		ng/L	192.1		61.8	10-130			
Surrogate: 13C3-HFPO-DA	79.3		ng/L	76.84		103	40-130			

LCS (B401487-BS1)

Prepared: 03/27/25 Analyzed: 04/02/25

Perfluorobutanoic acid (PFBA)	78.0	6.2	ng/L	77.76		100	70-140			
Perfluoropentanoic acid (PFPeA)	39.4	3.1	ng/L	38.88		101	65-135			
Perfluorohexanoic acid (PFHxA)	19.7	1.6	ng/L	19.44		101	70-145			
Perfluoroheptanoic acid (PFHpA)	18.8	1.6	ng/L	19.44		96.7	70-150			
Perfluorooctanoic acid (PFOA)	17.6	1.6	ng/L	19.44		90.7	70-150			
Perfluorononanoic acid (PFNA)	20.3	1.6	ng/L	19.44		105	70-150			
Perfluorodecanoic acid (PFDA)	20.0	1.6	ng/L	19.44		103	70-140			
Perfluoroundecanoic acid (PFUnA)	19.2	1.6	ng/L	19.44		98.9	70-145			
Perfluorododecanoic acid (PFDoA)	20.8	1.6	ng/L	19.44		107	70-140			
Perfluorotridecanoic acid (PFTTrDA)	19.8	1.6	ng/L	19.44		102	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.9	1.6	ng/L	19.44		102	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.6	1.6	ng/L	17.26		102	60-145			
Perfluoropentanesulfonic acid (PFPeS)	16.9	1.6	ng/L	18.27		92.3	65-140			
Perfluorohexanesulfonic acid (PFHxS)	15.7	1.6	ng/L	17.73		88.5	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.5	1.6	ng/L	18.51		105	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.1	1.6	ng/L	18.04		100	55-150			
Perfluorononanesulfonic acid (PFNS)	19.3	1.6	ng/L	18.66		104	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.2	1.6	ng/L	18.74		91.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	13.2	1.6	ng/L	18.82		70.2	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.7	6.2	ng/L	72.86		111	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	83.6	6.2	ng/L	73.95		113	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	74.8	6.2	ng/L	74.65		100	60-150			
Perfluorooctanesulfonamide (PFOSA)	18.4	1.6	ng/L	19.44		94.8	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	19.6	1.6	ng/L	19.44		101	60-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401487 - EPA 1633										
LCS (B401487-BS1)										
Prepared: 03/27/25 Analyzed: 04/02/25										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.7	1.6	ng/L	19.44		106	65-145			
N-MeFOSAA (NMeFOSAA)	17.8	1.6	ng/L	19.44		91.7	50-140			
N-EtFOSAA (NEtFOSAA)	16.6	1.6	ng/L	19.44		85.6	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	198	16	ng/L	194.4		102	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	205	16	ng/L	194.4		106	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.7	6.2	ng/L	77.76		104	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	84.0	6.2	ng/L	73.48		114	65-145			
9Cl-PF3ONS (F53B Minor)	73.3	6.2	ng/L	72.55		101	70-155			
11Cl-PF3OUdS (F53B Major)	64.6	6.2	ng/L	72.63		88.9	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	87.2	7.8	ng/L	97.20		89.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	445	39	ng/L	486.0		91.5	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	443	39	ng/L	486.0		91.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	39.9	3.1	ng/L	34.68		115	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.9	3.1	ng/L	38.88		103	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.9	3.1	ng/L	38.88		105	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	39.5	3.1	ng/L	38.88		102	50-150			
Surrogate: 13C4-PFBA	70.6		ng/L	77.76		90.8	5-130			
Surrogate: 13C5-PFPeA	33.9		ng/L	38.88		87.3	40-130			
Surrogate: 13C5-PFHxA	17.6		ng/L	19.44		90.7	40-130			
Surrogate: 13C4-PFHpA	16.1		ng/L	19.44		82.6	40-130			
Surrogate: 13C8-PFOA	20.1		ng/L	19.44		103	40-130			
Surrogate: 13C9-PFNA	8.45		ng/L	9.720		87.0	40-130			
Surrogate: 13C6-PFDA	8.27		ng/L	9.720		85.0	40-130			
Surrogate: 13C7-PFUnA	8.55		ng/L	9.720		88.0	30-130			
Surrogate: 13C2-PFDoA	7.15		ng/L	9.720		73.5	10-130			
Surrogate: 13C2-PFTeDA	6.37		ng/L	9.720		65.5	10-130			
Surrogate: 13C3-PFBS	14.5		ng/L	19.44		74.5	40-135			
Surrogate: 13C3-PFHxS	16.8		ng/L	19.44		86.6	40-130			
Surrogate: 13C8-PFOS	16.8		ng/L	19.44		86.3	40-130			
Surrogate: 13C2-4:2FTS	34.9		ng/L	38.88		89.8	40-200			
Surrogate: 13C2-6:2FTS	33.1		ng/L	38.88		85.2	40-200			
Surrogate: 13C2-8:2FTS	34.8		ng/L	38.88		89.5	40-300			
Surrogate: 13C8-PFOSA	14.2		ng/L	19.44		73.3	40-130			
Surrogate: D3-NMeFOSA	12.6		ng/L	19.44		64.9	10-130			
Surrogate: D5-NEtFOSA	11.6		ng/L	19.44		59.8	10-130			
Surrogate: D3-NMeFOSAA	29.9		ng/L	38.88		76.8	40-170			
Surrogate: D5-NEtFOSAA	31.8		ng/L	38.88		81.9	25-135			
Surrogate: D7-NMeFOSE	118		ng/L	194.4		60.7	10-130			
Surrogate: D9-NEtFOSE	112		ng/L	194.4		57.7	10-130			
Surrogate: 13C3-HFPO-DA	76.5		ng/L	77.76		98.4	40-130			
MRL Check (B401487-MRL1)										
Prepared: 03/27/25 Analyzed: 04/02/25										
Perfluorobutanoic acid (PFBA)	12.0	6.2	ng/L	12.31		97.7	70-140			
Perfluoropentanoic acid (PFPeA)	5.99	3.1	ng/L	6.157		97.3	65-135			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401487 - EPA 1633										
MRL Check (B401487-MRL1)										
Prepared: 03/27/25 Analyzed: 04/02/25										
Perfluorohexanoic acid (PFHxA)	2.82	1.5	ng/L	3.078		91.7	70-145			
Perfluoroheptanoic acid (PFHpA)	2.77	1.5	ng/L	3.078		89.9	70-150			
Perfluorooctanoic acid (PFOA)	4.61	1.5	ng/L	3.078		150	70-150			
Perfluorononanoic acid (PFNA)	2.81	1.5	ng/L	3.078		91.3	70-150			
Perfluorodecanoic acid (PFDA)	3.27	1.5	ng/L	3.078		106	70-140			
Perfluoroundecanoic acid (PFUnA)	2.87	1.5	ng/L	3.078		93.3	70-145			
Perfluorododecanoic acid (PFDoA)	2.80	1.5	ng/L	3.078		91.0	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.66	1.5	ng/L	3.078		86.5	65-140			
Perfluorotetradecanoic acid (PFTeDA)	2.98	1.5	ng/L	3.078		96.9	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.69	1.5	ng/L	2.734		98.3	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.45	1.5	ng/L	2.894		84.8	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.35	1.5	ng/L	2.807		83.6	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.84	1.5	ng/L	2.931		97.0	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.62	1.5	ng/L	2.857		91.8	55-150			
Perfluorononanesulfonic acid (PFNS)	2.74	1.5	ng/L	2.955		92.9	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.66	1.5	ng/L	2.968		89.8	60-145			
Perfluorododecanesulfonic acid (PFDoS)	1.92	1.5	ng/L	2.980		64.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.6	6.2	ng/L	11.54		101	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	12.3	6.2	ng/L	11.71		105	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.5	6.2	ng/L	11.82		115	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.71	1.5	ng/L	3.078		87.9	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	3.16	1.5	ng/L	3.078		103	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.29	1.5	ng/L	3.078		107	65-145			
N-MeFOSAA (NMeFOSAA)	2.49	1.5	ng/L	3.078		81.0	50-140			
N-EtFOSAA (NEtFOSAA)	2.38	1.5	ng/L	3.078		77.4	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	27.8	15	ng/L	30.78		90.3	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	28.4	15	ng/L	30.78		92.3	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	12.4	6.2	ng/L	12.31		101	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	12.5	6.2	ng/L	11.64		108	65-145			
9Cl-PF3ONS (F53B Minor)	10.8	6.2	ng/L	11.49		93.6	70-155			
11Cl-PF3OUDS (F53B Major)	9.43	6.2	ng/L	11.50		82.0	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.1	7.7	ng/L	15.39		85.3	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	67.4	38	ng/L	76.96		87.6	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	66.5	38	ng/L	76.96		86.5	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.57	3.1	ng/L	5.492		101	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.62	3.1	ng/L	6.157		91.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	6.17	3.1	ng/L	6.157		100	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.84	3.1	ng/L	6.157		94.9	50-150			
Surrogate: 13C4-PFBA	62.1		ng/L	76.96		80.7	5-130			
Surrogate: 13C5-PFPeA	30.5		ng/L	38.48		79.2	40-130			
Surrogate: 13C5-PFHxA	15.7		ng/L	19.24		81.4	40-130			

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

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

Batch B401487 - EPA 1633
MRL Check (B401487-MRL1)

Prepared: 03/27/25 Analyzed: 04/02/25

Surrogate: 13C4-PFHpA	14.2		ng/L	19.24		73.8	40-130			
Surrogate: 13C8-PFOA	17.6		ng/L	19.24		91.7	40-130			
Surrogate: 13C9-PFNA	7.62		ng/L	9.620		79.3	40-130			
Surrogate: 13C6-PFDA	7.71		ng/L	9.620		80.1	40-130			
Surrogate: 13C7-PFUnA	7.92		ng/L	9.620		82.3	30-130			
Surrogate: 13C2-PFDoA	6.95		ng/L	9.620		72.3	10-130			
Surrogate: 13C2-PFTeDA	5.85		ng/L	9.620		60.8	10-130			
Surrogate: 13C3-PFBS	12.0		ng/L	19.24		62.4	40-135			
Surrogate: 13C3-PFHxS	14.5		ng/L	19.24		75.2	40-130			
Surrogate: 13C8-PFOS	14.2		ng/L	19.24		73.8	40-130			
Surrogate: 13C2-4:2FTS	29.6		ng/L	38.48		77.0	40-200			
Surrogate: 13C2-6:2FTS	31.7		ng/L	38.48		82.4	40-200			
Surrogate: 13C2-8:2FTS	32.0		ng/L	38.48		83.1	40-300			
Surrogate: 13C8-PFOSA	13.3		ng/L	19.24		68.9	40-130			
Surrogate: D3-NMeFOSA	12.4		ng/L	19.24		64.4	10-130			
Surrogate: D5-NEtFOSA	11.6		ng/L	19.24		60.2	10-130			
Surrogate: D3-NMeFOSAA	24.2		ng/L	38.48		62.9	40-170			
Surrogate: D5-NEtFOSAA	25.7		ng/L	38.48		66.7	25-135			
Surrogate: D7-NMeFOSE	110		ng/L	192.4		57.4	10-130			
Surrogate: D9-NEtFOSE	104		ng/L	192.4		54.2	10-130			
Surrogate: 13C3-HFPO-DA	67.9		ng/L	76.96		88.2	40-130			

Batch B401951 - EPA 1633
Blank (B401951-BLK1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L

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QUALITY CONTROL

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

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

Batch B401951 - EPA 1633

Blank (B401951-BLK1)

Prepared: 04/07/25 Analyzed: 04/08/25

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	65.6		ng/L	78.48		83.5	5-130			
Surrogate: 13C5-PFPeA	33.8		ng/L	39.24		86.2	40-130			
Surrogate: 13C5-PFHxA	16.6		ng/L	19.62		84.7	40-130			
Surrogate: 13C4-PFHpA	16.9		ng/L	19.62		85.9	40-130			
Surrogate: 13C8-PFOA	15.7		ng/L	19.62		80.1	40-130			
Surrogate: 13C9-PFNA	8.26		ng/L	9.810		84.1	40-130			
Surrogate: 13C6-PFDA	8.25		ng/L	9.810		84.1	40-130			
Surrogate: 13C7-PFUnA	8.44		ng/L	9.810		86.1	30-130			
Surrogate: 13C2-PFDoA	8.08		ng/L	9.810		82.4	10-130			
Surrogate: 13C2-PFTeDA	7.46		ng/L	9.810		76.0	10-130			
Surrogate: 13C3-PFBS	17.5		ng/L	19.62		89.4	40-135			
Surrogate: 13C3-PFHxS	16.5		ng/L	19.62		84.3	40-130			
Surrogate: 13C8-PFOS	16.6		ng/L	19.62		84.4	40-130			
Surrogate: 13C2-4:2FTS	36.7		ng/L	39.24		93.7	40-200			
Surrogate: 13C2-6:2FTS	34.3		ng/L	39.24		87.4	40-200			
Surrogate: 13C2-8:2FTS	32.5		ng/L	39.24		82.7	40-300			
Surrogate: 13C8-PFOSA	16.8		ng/L	19.62		85.6	40-130			
Surrogate: D3-NMeFOSA	13.5		ng/L	19.62		69.0	10-130			
Surrogate: D5-NEtFOSA	14.5		ng/L	19.62		74.2	10-130			
Surrogate: D3-NMeFOSAA	29.8		ng/L	39.24		75.9	40-170			
Surrogate: D5-NEtFOSAA	29.7		ng/L	39.24		75.6	25-135			
Surrogate: D7-NMeFOSE	174		ng/L	196.2		88.9	10-130			
Surrogate: D9-NEtFOSE	173		ng/L	196.2		88.1	10-130			
Surrogate: 13C3-HFPO-DA	66.7		ng/L	78.48		85.0	40-130			

LCS (B401951-BS1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	73.4	6.3	ng/L	78.13		93.9	70-140
Perfluoropentanoic acid (PFPeA)	36.2	3.1	ng/L	39.07		92.7	65-135

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401951 - EPA 1633										
LCS (B401951-BS1)										
Prepared: 04/07/25 Analyzed: 04/08/25										
Perfluorohexanoic acid (PFHxA)	18.9	1.6	ng/L	19.53		96.7	70-145			
Perfluoroheptanoic acid (PFHpA)	18.8	1.6	ng/L	19.53		96.3	70-150			
Perfluorooctanoic acid (PFOA)	16.8	1.6	ng/L	19.53		85.9	70-150			
Perfluorononanoic acid (PFNA)	18.7	1.6	ng/L	19.53		95.5	70-150			
Perfluorodecanoic acid (PFDA)	18.1	1.6	ng/L	19.53		92.8	70-140			
Perfluoroundecanoic acid (PFUnA)	19.4	1.6	ng/L	19.53		99.1	70-145			
Perfluorododecanoic acid (PFDoA)	19.7	1.6	ng/L	19.53		101	70-140			
Perfluorotridecanoic acid (PFTrDA)	18.8	1.6	ng/L	19.53		96.4	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.0	1.6	ng/L	19.53		97.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.5	1.6	ng/L	17.35		101	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.9	1.6	ng/L	18.36		97.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.1	1.6	ng/L	17.81		95.8	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.7	1.6	ng/L	18.60		106	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.1	1.6	ng/L	18.13		100	55-150			
Perfluorononanesulfonic acid (PFNS)	17.2	1.6	ng/L	18.75		91.7	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.6	1.6	ng/L	18.83		88.3	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.3	1.6	ng/L	18.91		86.1	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	76.0	6.3	ng/L	73.21		104	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.0	6.3	ng/L	74.31		105	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	73.2	6.3	ng/L	75.01		97.5	60-150			
Perfluorooctanesulfonamide (PFOSA)	17.8	1.6	ng/L	19.53		91.0	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	18.8	1.6	ng/L	19.53		96.4	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	18.1	1.6	ng/L	19.53		92.6	65-145			
N-MeFOSAA (NMeFOSAA)	20.5	1.6	ng/L	19.53		105	50-140			
N-EtFOSAA (NEtFOSAA)	19.1	1.6	ng/L	19.53		97.6	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	184	16	ng/L	195.3		94.3	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	183	16	ng/L	195.3		93.6	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.7	6.3	ng/L	78.13		102	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	66.5	6.3	ng/L	73.84		90.1	65-145			
9Cl-PF3ONS (F53B Minor)	73.5	6.3	ng/L	72.90		101	70-155			
11Cl-PF3OUDS (F53B Major)	72.8	6.3	ng/L	72.98		99.7	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	93.8	7.8	ng/L	97.67		96.0	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	505	39	ng/L	488.3		103	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	459	39	ng/L	488.3		94.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	31.9	3.1	ng/L	34.85		91.5	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	39.0	3.1	ng/L	39.07		99.8	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	36.8	3.1	ng/L	39.07		94.2	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	34.6	3.1	ng/L	39.07		88.6	50-150			
Surrogate: 13C4-PFBA	61.9		ng/L	78.13		79.2	5-130			
Surrogate: 13C5-PFPeA	31.1		ng/L	39.07		79.5	40-130			
Surrogate: 13C5-PFHxA	15.6		ng/L	19.53		80.0	40-130			

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 B401951 - EPA 1633
LCS (B401951-BS1)

Prepared: 04/07/25 Analyzed: 04/08/25

Surrogate: 13C4-PFHpA	15.9		ng/L	19.53		81.4	40-130			
Surrogate: 13C8-PFOA	14.7		ng/L	19.53		75.0	40-130			
Surrogate: 13C9-PFNA	7.55		ng/L	9.767		77.3	40-130			
Surrogate: 13C6-PFDA	7.23		ng/L	9.767		74.1	40-130			
Surrogate: 13C7-PFUnA	6.76		ng/L	9.767		69.2	30-130			
Surrogate: 13C2-PFDoA	5.98		ng/L	9.767		61.3	10-130			
Surrogate: 13C2-PFTeDA	5.91		ng/L	9.767		60.5	10-130			
Surrogate: 13C3-PFBS	16.0		ng/L	19.53		82.0	40-135			
Surrogate: 13C3-PFHxS	15.2		ng/L	19.53		77.6	40-130			
Surrogate: 13C8-PFOS	13.5		ng/L	19.53		69.2	40-130			
Surrogate: 13C2-4:2FTS	32.6		ng/L	39.07		83.5	40-200			
Surrogate: 13C2-6:2FTS	31.9		ng/L	39.07		81.7	40-200			
Surrogate: 13C2-8:2FTS	31.2		ng/L	39.07		79.8	40-300			
Surrogate: 13C8-PFOSA	14.0		ng/L	19.53		71.7	40-130			
Surrogate: D3-NMeFOSA	10.6		ng/L	19.53		54.2	10-130			
Surrogate: D5-NEtFOSA	11.0		ng/L	19.53		56.3	10-130			
Surrogate: D3-NMeFOSAA	25.9		ng/L	39.07		66.3	40-170			
Surrogate: D5-NEtFOSAA	24.7		ng/L	39.07		63.3	25-135			
Surrogate: D7-NMeFOSE	127		ng/L	195.3		65.2	10-130			
Surrogate: D9-NEtFOSE	122		ng/L	195.3		62.4	10-130			
Surrogate: 13C3-HFPO-DA	61.1		ng/L	78.13		78.2	40-130			

MRL Check (B401951-MRL1)

Prepared: 04/07/25 Analyzed: 04/08/25

Perfluorobutanoic acid (PFBA)	11.3	6.3	ng/L	12.65		89.5	70-140			
Perfluoropentanoic acid (PFPeA)	5.48	3.2	ng/L	6.324		86.6	65-135			
Perfluorohexanoic acid (PFHxA)	2.66	1.6	ng/L	3.162		84.2	70-145			
Perfluoroheptanoic acid (PFHpA)	2.89	1.6	ng/L	3.162		91.3	70-150			
Perfluorooctanoic acid (PFOA)	2.55	1.6	ng/L	3.162		80.7	70-150			
Perfluorononanoic acid (PFNA)	2.86	1.6	ng/L	3.162		90.5	70-150			
Perfluorodecanoic acid (PFDA)	2.88	1.6	ng/L	3.162		91.1	70-140			
Perfluoroundecanoic acid (PFUnA)	2.69	1.6	ng/L	3.162		85.2	70-145			
Perfluorododecanoic acid (PFDoA)	2.90	1.6	ng/L	3.162		91.7	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.95	1.6	ng/L	3.162		93.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.08	1.6	ng/L	3.162		97.5	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.58	1.6	ng/L	2.808		91.9	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.93	1.6	ng/L	2.972		98.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.43	1.6	ng/L	2.884		84.4	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.02	1.6	ng/L	3.010		100	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.55	1.6	ng/L	2.934		86.8	55-150			
Perfluorononanesulfonic acid (PFNS)	2.74	1.6	ng/L	3.035		90.2	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.59	1.6	ng/L	3.048		84.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.68	1.6	ng/L	3.061		87.6	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.0	6.3	ng/L	11.85		92.9	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.4	6.3	ng/L	12.03		94.5	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	10.3	6.3	ng/L	12.14		84.8	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.72	1.6	ng/L	3.162		85.9	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	3.23	1.6	ng/L	3.162		102	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.90	1.6	ng/L	3.162		91.7	65-145			
N-MeFOSAA (NMeFOSAA)	2.78	1.6	ng/L	3.162		87.9	50-140			

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 B401951 - EPA 1633										
MRL Check (B401951-MRL1)										
Prepared: 04/07/25 Analyzed: 04/08/25										
N-EtFOSAA (NEtFOSAA)	2.70	1.6	ng/L	3.162		85.4	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	27.7	16	ng/L	31.62		87.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	27.5	16	ng/L	31.62		87.0	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.5	6.3	ng/L	12.65		90.7	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.0	6.3	ng/L	11.95		84.0	65-145			
9Cl-PF3ONS (F53B Minor)	11.3	6.3	ng/L	11.80		95.5	70-155			
11Cl-PF3OUdS (F53B Major)	11.9	6.3	ng/L	11.81		101	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.3	7.9	ng/L	15.81		96.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	78.4	40	ng/L	79.05		99.2	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	74.4	40	ng/L	79.05		94.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.88	3.2	ng/L	5.641		86.5	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.86	3.2	ng/L	6.324		92.7	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.71	3.2	ng/L	6.324		90.3	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.91	3.2	ng/L	6.324		77.7	50-150			
Surrogate: 13C4-PFBA	59.0		ng/L	79.05		74.7	5-130			
Surrogate: 13C5-PFPeA	29.7		ng/L	39.52		75.3	40-130			
Surrogate: 13C5-PFHxA	15.0		ng/L	19.76		75.7	40-130			
Surrogate: 13C4-PFHpA	15.2		ng/L	19.76		76.7	40-130			
Surrogate: 13C8-PFOA	14.4		ng/L	19.76		73.0	40-130			
Surrogate: 13C9-PFNA	7.37		ng/L	9.881		74.6	40-130			
Surrogate: 13C6-PFDA	6.88		ng/L	9.881		69.6	40-130			
Surrogate: 13C7-PFUnA	7.07		ng/L	9.881		71.6	30-130			
Surrogate: 13C2-PFDoA	6.39		ng/L	9.881		64.6	10-130			
Surrogate: 13C2-PFTeDA	6.01		ng/L	9.881		60.8	10-130			
Surrogate: 13C3-PFBS	16.0		ng/L	19.76		80.9	40-135			
Surrogate: 13C3-PFHxS	14.7		ng/L	19.76		74.5	40-130			
Surrogate: 13C8-PFOS	13.4		ng/L	19.76		67.9	40-130			
Surrogate: 13C2-4:2FTS	32.9		ng/L	39.52		83.2	40-200			
Surrogate: 13C2-6:2FTS	31.3		ng/L	39.52		79.2	40-200			
Surrogate: 13C2-8:2FTS	31.4		ng/L	39.52		79.5	40-300			
Surrogate: 13C8-PFOA	14.3		ng/L	19.76		72.5	40-130			
Surrogate: D3-NMeFOSA	11.5		ng/L	19.76		58.2	10-130			
Surrogate: D5-NEtFOSA	12.2		ng/L	19.76		61.9	10-130			
Surrogate: D3-NMeFOSAA	27.6		ng/L	39.52		69.9	40-170			
Surrogate: D5-NEtFOSAA	26.6		ng/L	39.52		67.4	25-135			
Surrogate: D7-NMeFOSE	146		ng/L	197.6		73.9	10-130			
Surrogate: D9-NEtFOSE	145		ng/L	197.6		73.4	10-130			
Surrogate: 13C3-HFPO-DA	60.2		ng/L	79.05		76.2	40-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
PF-18	Re-analysis confirmed Extracted Internal Standard failure due to matrix effects.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
S-29	Extracted Internal Standard is outside of control limits.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Perfluorobutanoic acid (PFBA)	NY
Perfluoropentanoic acid (PFPeA)	NY
Perfluorohexanoic acid (PFHxA)	NY
Perfluoroheptanoic acid (PFHpA)	NY
Perfluorooctanoic acid (PFOA)	NY
Perfluorononanoic acid (PFNA)	NY
Perfluorodecanoic acid (PFDA)	NY
Perfluoroundecanoic acid (PFUnA)	NY
Perfluorododecanoic acid (PFDoA)	NY
Perfluorotridecanoic acid (PFTrDA)	NY
Perfluorotetradecanoic acid (PFTeDA)	NY
Perfluorobutanesulfonic acid (PFBS)	NY
Perfluoropentanesulfonic acid (PFPeS)	NY
Perfluorohexanesulfonic acid (PFHxS)	NY
Perfluoroheptanesulfonic acid (PFHpS)	NY
Perfluorooctanesulfonic acid (PFOS)	NY
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NY
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NY
N-MeFOSAA (NMeFOSAA)	NY
N-EtFOSAA (NEtFOSAA)	NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NY
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NY
9Cl-PF3ONS (F53B Minor)	NY
11Cl-PF3OUdS (F53B Major)	NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY
<i>EPA 624.1 in Water</i>	
Benzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromodichloromethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromoform	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Bromomethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloroform	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Chloromethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
cis-1,2-Dichloroethylene	NY,MA,NJ
1,1-Dichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,NJ,NC,RI,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 624.1 in Water</i>	
cis-1,3-Dichloropropene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,4-Dioxane	MA,NH
trans-1,3-Dichloropropene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Ethylbenzene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,MA,NH,NJ,NC
Methylene Chloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Toluene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Trichloroethylene	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,NJ,NC,RI,ME,VA
Vinyl Chloride	CT,NY,MA,NH,NJ,NC,RI,ME,VA
m+p Xylene	CT,NY,MA,NH,NJ,NC,RI
o-Xylene	CT,NY,MA,NH,NJ,NC,RI

SW-846 8270E in Water

1,4-Dioxane NY,NH,NJ

Pace Analytical Services, LLC - East Longmeadow, Ma, 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	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

Effective Date: 06/11/2024

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

Short Hold: Yes / No Notify_____

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be from a notebook or a standard sheet of stationery.

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

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

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						
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric												
1					N				Unpreserved	Sulfuric		Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc									
2					N				Unpreserved	Sulfuric		Unpreserved	Sulfuric																
3					N																								
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	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

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
PROJECT NAME: NYSDEC- Northeast Alloys_March 2025 GW Data
CONTRACTED LAB: PACE – New England
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): SW-846 and EPA Methods
VALIDATION GUIDELINES: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 2020, Professional Judgement
SAMPLE MATRIX: Soil/Water
TYPES OF ANALYSES: Polyfluoroalkyl Substances (PFAS) Method 1633, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM,
VALIDATION DATE: 6/3/2025
DATA REVIEWER(S): Steve Learn
SDG NUMBER: 25C1250
SAMPLING DATE(S): March 18,19, 2024

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>PFAS</u>	<u>1,4-DIOXANE</u>
MW-9 03182025	25C1250-01	X	X
MW-10 03182025	25C1250-02	X	X
DUP-1 03182025	25C1250-03	X	X
MW-6 03182025	25C1250-04	X	X
MW-17 03182025	25C1250-05	X	X
MW-5 03182025	25C1250-06	X	X
MW-18 03182025	25C1250-07	X	X
MW-4 03182025	25C1250-08	X	X
MW-11 03182025	25C1250-09	X	X
MW-3 03182025	25C1250-10	X	X
MW-15 03192025	25C1250-11	X	X
MW-16 03192025	25C1250-12	X	X
MW-13 03192025	25C1250-13	X	X
MW-12 03192025	25C1250-14	X	X
BR-1 03192025	25C1250-15	X	X
BR-2 03192025	25C1250-17	X	X

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>PFAS</u>	<u>1,4-DIOXANE</u>
MW-9 03182025MS	25C1250-01MS	X	
MW-9 03182025MSD	25C1250-01MSD	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

PACE – New England – 25C1250

PFAS

I.) General

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data

The overall assessment of data was acceptable with qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) LC-MS Tuning:

All LC-MS Tuning criteria were met. All mass calibration criteria were met. No data qualification was necessary.

V.) Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration:

All continuing calibration verification criteria were met. No data qualification was necessary.

VIII.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

Equipment Blanks:

There were no equipment blanks analyzed as part of this SDG. No data qualification was necessary.

IX.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria with the following exceptions.

<u>Sample ID</u>	<u>Analyte</u>	<u>% Recovery</u>	<u>QC Limits</u>
MW-10 03182025	13C2-4:2 FTS	201%	40-200%
MW-12 03192025	13C2-4:2 FTS	213%	40-200%

The associated analytes were not detected in the affected samples. Since the recoveries were above QC Limits no data qualification was necessary.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

An LLLCS, LCS, and LCSD were prepared and analyzed for the soil preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Sample MW-9 03182025 was analyzed as the batch MS/MSD. All recovery criteria were within QC Limits. No data qualification was necessary.

XII.) Field Duplicates:

Samples MW-10 03182025 and DUP-1 03182025 were analyzed as field duplicates. All calculable results met precision criteria. No data qualification was necessary.

XIII.) Ion Transitions:

Qualifier ion ratio for PFHxA was greater than 150% of the associated calibration for samples DUP-1 03182025 and MW-16 03192025. The results for this analyte were flagged as estimated (J) in these samples.

XIV.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XV.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XVI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

XVIII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were within limits. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

Samples MW-10 03182025 and DUP-1 03182025 were analyzed as field duplicates. There were no calculable results detected in these samples. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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)	13	6.8	0.85	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoropentanoic acid (PFPeA)	6.2	3.4	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorohexanoic acid (PFHxA)	1.6	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroheptanoic acid (PFHpA)	0.86	1.7	0.30	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanoic acid (PFOA)	3.9	1.7	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorobutanesulfonic acid (PFBS)	1.0	1.7	0.36	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.90	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.76	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.8	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.8	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.8	3.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluorooctanesulfonamide (PFOSA)	0.82	1.7	0.59	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.8	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.8	0.90	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
9Cl-PF3ONS (F53B Minor)	ND	6.8	0.99	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
11Cl-PF3OUDS (F53B Major)	ND	6.8	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.5	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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	3.4	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:44	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	90.6		5-130				4/4/25 14:44			
13C5-PFPeA	93.9		40-130				4/4/25 14:44			
13C5-PFHxA	95.4		40-130				4/4/25 14:44			
13C4-PFHpA	96.1		40-130				4/4/25 14:44			
13C8-PFOA	94.0		40-130				4/4/25 14:44			
13C9-PFNA	92.5		40-130				4/4/25 14:44			
13C6-PFDA	84.6		40-130				4/4/25 14:44			
13C7-PFUnA	86.2		30-130				4/4/25 14:44			
13C2-PFDoA	71.9		10-130				4/4/25 14:44			
13C2-PFTeDA	70.3		10-130				4/4/25 14:44			
13C3-PFBS	96.7		40-135				4/4/25 14:44			
13C3-PFHxS	96.4		40-130				4/4/25 14:44			
13C8-PFOS	88.5		40-130				4/4/25 14:44			
13C2-4:2FTS	188		40-200				4/4/25 14:44			
13C2-6:2FTS	126		40-200				4/4/25 14:44			
13C2-8:2FTS	98.7		40-300				4/4/25 14:44			
13C8-PFOSA	80.9		40-130				4/4/25 14:44			
D3-NMeFOSA	62.5		10-130				4/4/25 14:44			
D5-NEtFOSA	62.3		10-130				4/4/25 14:44			
D3-NMeFOSAA	76.1		40-170				4/4/25 14:44			
D5-NEtFOSAA	72.4		25-135				4/4/25 14:44			
D7-NMeFOSE	64.8		10-130				4/4/25 14:44			
D9-NEtFOSE	61.3		10-130				4/4/25 14:44			
13C3-HFPO-DA	94.5		40-130				4/4/25 14:44			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorohexanoic acid (PFHxA)	0.39	1.5	0.26	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanoic acid (PFOA)	0.91	1.5	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorobutanesulfonic acid (PFBS)	0.34	1.5	0.32	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1	PF-17	Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
11Cl-PF3OUDS (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 14:54	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	62.4		5-130				4/4/25 14:54			
13C5-PFPeA	92.4		40-130				4/4/25 14:54			
13C5-PFHxA	96.7		40-130				4/4/25 14:54			
13C4-PFHpA	96.2		40-130				4/4/25 14:54			
13C8-PFOA	94.9		40-130				4/4/25 14:54			
13C9-PFNA	99.0		40-130				4/4/25 14:54			
13C6-PFDA	89.1		40-130				4/4/25 14:54			
13C7-PFUnA	88.5		30-130				4/4/25 14:54			
13C2-PFDoA	71.3		10-130				4/4/25 14:54			
13C2-PFTeDA	66.4		10-130				4/4/25 14:54			
13C3-PFBS	96.4		40-135				4/4/25 14:54			
13C3-PFHxS	92.8		40-130				4/4/25 14:54			
13C8-PFOS	84.8		40-130				4/4/25 14:54			
13C2-4:2FTS	201 *		40-200		PF-17		4/4/25 14:54			
13C2-6:2FTS	143		40-200				4/4/25 14:54			
13C2-8:2FTS	96.0		40-300				4/4/25 14:54			
13C8-PFOA	84.9		40-130				4/4/25 14:54			
D3-NMeFOSA	58.4		10-130				4/4/25 14:54			
D5-NEtFOSA	57.1		10-130				4/4/25 14:54			
D3-NMeFOSAA	75.9		40-170				4/4/25 14:54			
D5-NEtFOSAA	70.3		25-135				4/4/25 14:54			
D7-NMeFOSE	58.3		10-130				4/4/25 14:54			
D9-NEtFOSE	53.7		10-130				4/4/25 14:54			
13C3-HFPO-DA	94.7		40-130				4/4/25 14:54			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	14	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorohexanoic acid (PFHxA)	0.33	1.5	0.26	ng/L	1	PF-22, J	Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanoic acid (PFOA)	0.57	1.5	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
11Cl-PF3OUs (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:03	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	63.2		5-130				4/4/25 15:03			
13C5-PFPeA	92.4		40-130				4/4/25 15:03			
13C5-PFHxA	96.4		40-130				4/4/25 15:03			
13C4-PFHpA	95.7		40-130				4/4/25 15:03			
13C8-PFOA	92.4		40-130				4/4/25 15:03			
13C9-PFNA	89.0		40-130				4/4/25 15:03			
13C6-PFDA	87.4		40-130				4/4/25 15:03			
13C7-PFUnA	81.4		30-130				4/4/25 15:03			
13C2-PFDoA	68.4		10-130				4/4/25 15:03			
13C2-PFTeDA	65.5		10-130				4/4/25 15:03			
13C3-PFBS	98.5		40-135				4/4/25 15:03			
13C3-PFHxS	93.7		40-130				4/4/25 15:03			
13C8-PFOS	86.5		40-130				4/4/25 15:03			
13C2-4:2FTS	199		40-200				4/4/25 15:03			
13C2-6:2FTS	135		40-200				4/4/25 15:03			
13C2-8:2FTS	91.6		40-300				4/4/25 15:03			
13C8-PFOSA	83.9		40-130				4/4/25 15:03			
D3-NMeFOSA	62.1		10-130				4/4/25 15:03			
D5-NEtFOSA	62.5		10-130				4/4/25 15:03			
D3-NMeFOSAA	73.2		40-170				4/4/25 15:03			
D5-NEtFOSAA	70.2		25-135				4/4/25 15:03			
D7-NMeFOSE	61.5		10-130				4/4/25 15:03			
D9-NEtFOSE	58.3		10-130				4/4/25 15:03			
13C3-HFPO-DA	91.4		40-130				4/4/25 15:03			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332					
Project Location: 2145 Dwyer Ave, Utica, NY	Sample Description:				Work Order: 25C1250
Date Received: 3/20/2025					
Field Sample #: MW-6 03182025	Sampled: 3/18/2025 13:15				
Sample ID: 25C1250-04					
Sample Matrix: 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)	20	6.3	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorohexanoic acid (PFHxA)	0.81	1.6	0.27	ng/L	1	PF-23, J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroheptanoic acid (PFHpA)	0.41	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanoic acid (PFOA)	3.0	1.6	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorodecanoic acid (PFDA)	1.6	1.6	0.38	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroundecanoic acid (PFUnA)	0.51	1.6	0.50	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorododecanoic acid (PFDoA)	1.3	1.6	0.34	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorotetradecanoic acid (PFTeDA)	0.44	1.6	0.15	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanesulfonic acid (PFOS)	0.60	1.6	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
11Cl-PF3OUDs (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: 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	3.1	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:12	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	72.3		5-130				4/4/25 15:12			
13C5-PFPeA	98.6		40-130				4/4/25 15:12			
13C5-PFHxA	97.8		40-130				4/4/25 15:12			
13C4-PFHpA	96.8		40-130				4/4/25 15:12			
13C8-PFOA	101		40-130				4/4/25 15:12			
13C9-PFNA	91.8		40-130				4/4/25 15:12			
13C6-PFDA	86.6		40-130				4/4/25 15:12			
13C7-PFUnA	81.9		30-130				4/4/25 15:12			
13C2-PFDoA	67.2		10-130				4/4/25 15:12			
13C2-PFTeDA	63.4		10-130				4/4/25 15:12			
13C3-PFBS	102		40-135				4/4/25 15:12			
13C3-PFHxS	102		40-130				4/4/25 15:12			
13C8-PFOS	85.3		40-130				4/4/25 15:12			
13C2-4:2FTS	154		40-200				4/4/25 15:12			
13C2-6:2FTS	100		40-200				4/4/25 15:12			
13C2-8:2FTS	83.5		40-300				4/4/25 15:12			
13C8-PFOSA	80.1		40-130				4/4/25 15:12			
D3-NMeFOSA	65.5		10-130				4/4/25 15:12			
D5-NEtFOSA	66.6		10-130				4/4/25 15:12			
D3-NMeFOSAA	65.6		40-170				4/4/25 15:12			
D5-NEtFOSAA	60.5		25-135				4/4/25 15:12			
D7-NMeFOSE	62.5		10-130				4/4/25 15:12			
D9-NEtFOSE	55.1		10-130				4/4/25 15:12			
13C3-HFPO-DA	99.4		40-130				4/4/25 15:12			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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)	370	5.9	0.73	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorohexanoic acid (PFHxA)	2.0	1.5	0.26	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroheptanoic acid (PFHpA)	0.97	1.5	0.26	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanoic acid (PFOA)	5.0	1.5	0.38	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorononanoic acid (PFNA)	0.62	1.5	0.60	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorobutanesulfonic acid (PFBS)	1.5	1.5	0.32	ng/L	1	PF-23	Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanesulfonic acid (PFOS)	25	1.5	0.36	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.46	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluorooctanesulfonamide (PFOSA)	0.58	1.5	0.51	ng/L	1	PF-23, J	Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.78	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
11Cl-PF3OUDs (F53B Major)	ND	5.9	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.3	2.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.4	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	8.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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	2.9	0.39	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:19	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	29.2		5-130		PF-24					
13C5-PFPeA	56.6		40-130							
13C5-PFHxA	69.1		40-130							
13C4-PFHpA	77.9		40-130							
13C8-PFOA	67.3		40-130							
13C9-PFNA	64.4		40-130							
13C6-PFDA	63.9		40-130							
13C7-PFUnA	60.0		30-130							
13C2-PFDoA	48.3		10-130							
13C2-PFTeDA	34.7		10-130							
13C3-PFBS	64.8		40-135							
13C3-PFHxS	64.4		40-130							
13C8-PFOS	61.5		40-130							
13C2-4:2FTS	156		40-200							
13C2-6:2FTS	133		40-200							
13C2-8:2FTS	78.6		40-300							
13C8-PFOSA	54.5		40-130							
D3-NMeFOSA	32.4		10-130							
D5-NEtFOSA	27.5		10-130							
D3-NMeFOSAA	50.0		40-170							
D5-NEtFOSAA	45.0		25-135							
D7-NMeFOSE	29.1		10-130							
D9-NEtFOSE	24.5		10-130							
13C3-HFPO-DA	63.2		40-130							

Project Location: 2145 Dwyer Ave, Utica, NY			Sample Description:			Work Order: 25C1250		
Date Received: 3/20/2025			Sampled: 3/18/2025 14:05					
Field Sample #: MW-5 03182025								
Sample ID: 25C1250-06								
Sample Matrix: 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)	24	6.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorohexanoic acid (PFHxA)	0.62	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroheptanoic acid (PFHpA)	0.34	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanoic acid (PFOA)	2.1	1.7	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanesulfonic acid (PFOS)	2.1	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.6	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.6	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.6	3.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.28	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.6	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.6	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
9Cl-PF3ONS (F53B Minor)	ND	6.6	0.97	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
11Cl-PF3OUDs (F53B Major)	ND	6.6	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.3	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	41	9.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: 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	3.3	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:30	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	84.8		5-130				4/4/25 15:30			
13C5-PFPeA	90.5		40-130				4/4/25 15:30			
13C5-PFHxA	92.7		40-130				4/4/25 15:30			
13C4-PFHpA	89.5		40-130				4/4/25 15:30			
13C8-PFOA	91.5		40-130				4/4/25 15:30			
13C9-PFNA	92.0		40-130				4/4/25 15:30			
13C6-PFDA	86.7		40-130				4/4/25 15:30			
13C7-PFUnA	82.8		30-130				4/4/25 15:30			
13C2-PFDoA	66.7		10-130				4/4/25 15:30			
13C2-PFTeDA	64.9		10-130				4/4/25 15:30			
13C3-PFBS	92.8		40-135				4/4/25 15:30			
13C3-PFHxS	92.0		40-130				4/4/25 15:30			
13C8-PFOS	82.6		40-130				4/4/25 15:30			
13C2-4:2FTS	163		40-200				4/4/25 15:30			
13C2-6:2FTS	106		40-200				4/4/25 15:30			
13C2-8:2FTS	77.6		40-300				4/4/25 15:30			
13C8-PFOSA	79.0		40-130				4/4/25 15:30			
D3-NMeFOSA	61.7		10-130				4/4/25 15:30			
D5-NEtFOSA	62.8		10-130				4/4/25 15:30			
D3-NMeFOSAA	67.8		40-170				4/4/25 15:30			
D5-NEtFOSAA	65.0		25-135				4/4/25 15:30			
D7-NMeFOSE	63.4		10-130				4/4/25 15:30			
D9-NEtFOSE	60.5		10-130				4/4/25 15:30			
13C3-HFPO-DA	88.5		40-130				4/4/25 15:30			

Project Location: 2145 Dwyer Ave, Utica, NY			Sample Description:			Work Order: 25C1250		
Date Received: 3/20/2025			Sampled: 3/18/2025 14:45					
Field Sample #: MW-18 03182025								
Sample ID: 25C1250-07								
Sample Matrix: 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)	170	6.2	0.77	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorohexanoic acid (PFHxA)	2.7	1.5	0.27	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroheptanoic acid (PFHpA)	0.92	1.5	0.27	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanoic acid (PFOA)	4.9	1.5	0.40	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorononanoic acid (PFNA)	0.74	1.5	0.63	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorobutanesulfonic acid (PFBS)	1.0	1.5	0.33	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorohexanesulfonic acid (PFHxS)	0.96	1.5	0.60	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanesulfonic acid (PFOS)	9.9	1.5	0.38	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.90	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
11Cl-PF3OUDs (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.6	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: 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	3.1	0.41	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:28	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	64.8		5-130		PF-24		4/8/25 17:28			
13C5-PFPeA	51.3		40-130				4/8/25 17:28			
13C5-PFHxA	66.5		40-130				4/8/25 17:28			
13C4-PFHpA	80.4		40-130				4/8/25 17:28			
13C8-PFOA	63.3		40-130				4/8/25 17:28			
13C9-PFNA	66.2		40-130				4/8/25 17:28			
13C6-PFDA	60.8		40-130				4/8/25 17:28			
13C7-PFUnA	59.9		30-130				4/8/25 17:28			
13C2-PFDoA	44.6		10-130				4/8/25 17:28			
13C2-PFTeDA	25.3		10-130				4/8/25 17:28			
13C3-PFBS	57.7		40-135				4/8/25 17:28			
13C3-PFHxS	63.1		40-130				4/8/25 17:28			
13C8-PFOS	62.5		40-130				4/8/25 17:28			
13C2-4:2FTS	151		40-200				4/8/25 17:28			
13C2-6:2FTS	148		40-200				4/8/25 17:28			
13C2-8:2FTS	108		40-300				4/8/25 17:28			
13C8-PFOSA	55.9		40-130				4/8/25 17:28			
D3-NMeFOSA	30.0		10-130				4/8/25 17:28			
D5-NEtFOSA	25.1		10-130				4/8/25 17:28			
D3-NMeFOSAA	57.3		40-170				4/8/25 17:28			
D5-NEtFOSAA	53.8		25-135				4/8/25 17:28			
D7-NMeFOSE	15.7		10-130				4/8/25 17:28			
D9-NEtFOSE	10.7		10-130				4/8/25 17:28			
13C3-HFPO-DA	63.1		40-130				4/8/25 17:28			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: 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	6.9	0.87	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoropentanoic acid (PFPeA)	ND	3.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanoic acid (PFOA)	ND	1.7	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorononanoic acid (PFNA)	ND	1.7	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.17	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.9	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.9	3.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.70	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.9	0.92	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
9Cl-PF3ONS (F53B Minor)	ND	6.9	1.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
11Cl-PF3OUDs (F53B Major)	ND	6.9	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.7	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	43	9.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.5	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025 Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: Water

Semivolatle 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	3.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.5	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:49	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	79.3		5-130				4/4/25 15:49			
13C5-PFPeA	97.4		40-130				4/4/25 15:49			
13C5-PFHxA	101		40-130				4/4/25 15:49			
13C4-PFHpA	100		40-130				4/4/25 15:49			
13C8-PFOA	99.6		40-130				4/4/25 15:49			
13C9-PFNA	97.8		40-130				4/4/25 15:49			
13C6-PFDA	90.5		40-130				4/4/25 15:49			
13C7-PFUnA	82.7		30-130				4/4/25 15:49			
13C2-PFDoA	69.8		10-130				4/4/25 15:49			
13C2-PFTeDA	66.1		10-130				4/4/25 15:49			
13C3-PFBS	99.9		40-135				4/4/25 15:49			
13C3-PFHxS	95.5		40-130				4/4/25 15:49			
13C8-PFOS	89.6		40-130				4/4/25 15:49			
13C2-4:2FTS	132		40-200				4/4/25 15:49			
13C2-6:2FTS	92.0		40-200				4/4/25 15:49			
13C2-8:2FTS	79.0		40-300				4/4/25 15:49			
13C8-PFOSA	89.8		40-130				4/4/25 15:49			
D3-NMeFOSA	66.3		10-130				4/4/25 15:49			
D5-NEtFOSA	64.4		10-130				4/4/25 15:49			
D3-NMeFOSAA	70.7		40-170				4/4/25 15:49			
D5-NEtFOSAA	66.5		25-135				4/4/25 15:49			
D7-NMeFOSE	63.3		10-130				4/4/25 15:49			
D9-NEtFOSE	59.2		10-130				4/4/25 15:49			
13C3-HFPO-DA	99.6		40-130				4/4/25 15:49			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332		
Project Location: 2145 Dwyer Ave, Utica, NY	Sample Description:	Work Order: 25C1250
Date Received: 3/20/2025		
Field Sample #: MW-11 03182025	Sampled: 3/18/2025 16:16	
Sample ID: 25C1250-09		
Sample Matrix: 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	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.39	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.67	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.87	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
11Cl-PF3OUDs (F53B Major)	ND	5.9	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025

Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: 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	3.0	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 15:58	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	88.2		5-130				4/4/25 15:58			
13C5-PFPeA	89.9		40-130				4/4/25 15:58			
13C5-PFHxA	96.2		40-130				4/4/25 15:58			
13C4-PFHpA	95.0		40-130				4/4/25 15:58			
13C8-PFOA	88.9		40-130				4/4/25 15:58			
13C9-PFNA	92.2		40-130				4/4/25 15:58			
13C6-PFDA	83.0		40-130				4/4/25 15:58			
13C7-PFUnA	82.8		30-130				4/4/25 15:58			
13C2-PFDoA	73.0		10-130				4/4/25 15:58			
13C2-PFTeDA	66.3		10-130				4/4/25 15:58			
13C3-PFBS	95.1		40-135				4/4/25 15:58			
13C3-PFHxS	97.5		40-130				4/4/25 15:58			
13C8-PFOS	84.8		40-130				4/4/25 15:58			
13C2-4:2FTS	152		40-200				4/4/25 15:58			
13C2-6:2FTS	103		40-200				4/4/25 15:58			
13C2-8:2FTS	81.0		40-300				4/4/25 15:58			
13C8-PFOSA	83.3		40-130				4/4/25 15:58			
D3-NMeFOSA	61.0		10-130				4/4/25 15:58			
D5-NEtFOSA	62.9		10-130				4/4/25 15:58			
D3-NMeFOSAA	68.6		40-170				4/4/25 15:58			
D5-NEtFOSAA	63.6		25-135				4/4/25 15:58			
D7-NMeFOSE	64.6		10-130				4/4/25 15:58			
D9-NEtFOSE	60.2		10-130				4/4/25 15:58			
13C3-HFPO-DA	89.5		40-130				4/4/25 15:58			

Project Location: 2145 Dwyer Ave, Utica, NY			Sample Description:			Work Order: 25C1250		
Date Received: 3/20/2025			Sampled: 3/18/2025 16:20					
Field Sample #: MW-3 03182025								
Sample ID: 25C1250-10								
Sample Matrix: Water								

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	17	6.5	0.81	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoropentanoic acid (PFPeA)	ND	3.2	0.45	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorohexanoic acid (PFHxA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroheptanoic acid (PFHpA)	0.41	1.6	0.29	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanoic acid (PFOA)	1.2	1.6	0.42	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.35	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.63	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanesulfonic acid (PFOS)	0.59	1.6	0.40	ng/L	1	J	Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.56	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
11Cl-PF3OUDs (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.58	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.47	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: 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	3.2	0.44	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.2	ng/L	1		Draft Method 1633	4/7/25	4/8/25 17:37	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	64.7		5-130		PF-24		4/8/25 17:37			
13C5-PFPeA	48.2		40-130				4/8/25 17:37			
13C5-PFHxA	64.4		40-130				4/8/25 17:37			
13C4-PFHpA	72.6		40-130				4/8/25 17:37			
13C8-PFOA	61.4		40-130				4/8/25 17:37			
13C9-PFNA	61.8		40-130				4/8/25 17:37			
13C6-PFDA	60.8		40-130				4/8/25 17:37			
13C7-PFUnA	62.3		30-130				4/8/25 17:37			
13C2-PFDoA	49.9		10-130				4/8/25 17:37			
13C2-PFTeDA	33.2		10-130				4/8/25 17:37			
13C3-PFBS	59.4		40-135				4/8/25 17:37			
13C3-PFHxS	63.1		40-130				4/8/25 17:37			
13C8-PFOS	59.3		40-130				4/8/25 17:37			
13C2-4:2FTS	144		40-200				4/8/25 17:37			
13C2-6:2FTS	119		40-200				4/8/25 17:37			
13C2-8:2FTS	81.1		40-300				4/8/25 17:37			
13C8-PFOSA	53.4		40-130				4/8/25 17:37			
D3-NMeFOSA	38.9		10-130				4/8/25 17:37			
D5-NEtFOSA	36.1		10-130				4/8/25 17:37			
D3-NMeFOSAA	48.7		40-170				4/8/25 17:37			
D5-NEtFOSAA	48.4		25-135				4/8/25 17:37			
D7-NMeFOSE	23.6		10-130				4/8/25 17:37			
D9-NEtFOSE	16.3		10-130				4/8/25 17:37			
13C3-HFPO-DA	57.0		40-130				4/8/25 17:37			

Project Location: 2145 Dwyer Ave, Utica, NY			Sample Description:			Work Order: 25C1250		
Date Received: 3/20/2025			Sampled: 3/19/2025 09:00					
Field Sample #: MW-15 03192025								
Sample ID: 25C1250-11								
Sample Matrix: 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)	2.5	6.5	0.81	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorohexanoic acid (PFHxA)	0.41	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanoic acid (PFOA)	0.70	1.6	0.42	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.39	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanesulfonic acid (PFOS)	0.47	1.6	0.40	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.73	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.5	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.5	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.5	3.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.5	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.5	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
9Cl-PF3ONS (F53B Minor)	ND	6.5	0.95	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
11Cl-PF3OUDs (F53B Major)	ND	6.5	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.1	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	41	7.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	41	9.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.58	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-15 03192025

Sampled: 3/19/2025 09:00

Sample ID: 25C1250-11

Sample Matrix: 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	3.3	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:47	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	87.6		5-130				4/4/25 16:47			
13C5-PFPeA	86.8		40-130				4/4/25 16:47			
13C5-PFHxA	85.9		40-130				4/4/25 16:47			
13C4-PFHpA	85.5		40-130				4/4/25 16:47			
13C8-PFOA	91.8		40-130				4/4/25 16:47			
13C9-PFNA	87.6		40-130				4/4/25 16:47			
13C6-PFDA	79.4		40-130				4/4/25 16:47			
13C7-PFUnA	78.8		30-130				4/4/25 16:47			
13C2-PFDoA	68.2		10-130				4/4/25 16:47			
13C2-PFTeDA	63.8		10-130				4/4/25 16:47			
13C3-PFBS	81.7		40-135				4/4/25 16:47			
13C3-PFHxS	82.9		40-130				4/4/25 16:47			
13C8-PFOS	77.3		40-130				4/4/25 16:47			
13C2-4:2FTS	77.6		40-200				4/4/25 16:47			
13C2-6:2FTS	68.0		40-200				4/4/25 16:47			
13C2-8:2FTS	68.1		40-300				4/4/25 16:47			
13C8-PFOSA	85.5		40-130				4/4/25 16:47			
D3-NMeFOSA	63.6		10-130				4/4/25 16:47			
D5-NEtFOSA	63.6		10-130				4/4/25 16:47			
D3-NMeFOSAA	55.4		40-170				4/4/25 16:47			
D5-NEtFOSAA	49.6		25-135				4/4/25 16:47			
D7-NMeFOSE	65.6		10-130				4/4/25 16:47			
D9-NEtFOSE	61.0		10-130				4/4/25 16:47			
13C3-HFPO-DA	81.4		40-130				4/4/25 16:47			

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250
 Date Received: 3/20/2025
 Field Sample #: MW-16 03192025 Sampled: 3/19/2025 10:00
 Sample ID: 25C1250-12
 Sample Matrix: 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)	8.4	7.0	0.88	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoropentanoic acid (PFPeA)	ND	3.5	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorohexanoic acid (PFHxA)	0.53	1.8	0.31	ng/L	1	PF-22, J J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroheptanoic acid (PFHpA)	0.32	1.8	0.31	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanoic acid (PFOA)	0.96	1.8	0.46	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorononanoic acid (PFNA)	ND	1.8	0.72	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorodecanoic acid (PFDA)	ND	1.8	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.8	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorododecanoic acid (PFDoA)	ND	1.8	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.8	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.8	0.17	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	0.93	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanesulfonic acid (PFOS)	0.80	1.8	0.44	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.8	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.8	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.8	0.79	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	7.0	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	7.0	3.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	7.0	3.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.8	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.8	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-MeFOSAA (NMeFOSAA)	ND	1.8	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-EtFOSAA (NEtFOSAA)	ND	1.8	0.71	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	18	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	18	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	7.0	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	7.0	0.93	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
9Cl-PF3ONS (F53B Minor)	ND	7.0	1.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
11Cl-PF3OUs (F53B Major)	ND	7.0	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.8	2.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	7.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	44	9.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.5	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025 Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: 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	3.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.5	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 16:57	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	91.5		5-130				4/4/25 16:57			
13C5-PFPeA	90.8		40-130				4/4/25 16:57			
13C5-PFHxA	92.6		40-130				4/4/25 16:57			
13C4-PFHpA	91.1		40-130				4/4/25 16:57			
13C8-PFOA	94.1		40-130				4/4/25 16:57			
13C9-PFNA	89.0		40-130				4/4/25 16:57			
13C6-PFDA	79.8		40-130				4/4/25 16:57			
13C7-PFUnA	74.3		30-130				4/4/25 16:57			
13C2-PFDoA	65.5		10-130				4/4/25 16:57			
13C2-PFTeDA	63.8		10-130				4/4/25 16:57			
13C3-PFBS	96.3		40-135				4/4/25 16:57			
13C3-PFHxS	93.3		40-130				4/4/25 16:57			
13C8-PFOS	78.7		40-130				4/4/25 16:57			
13C2-4:2FTS	152		40-200				4/4/25 16:57			
13C2-6:2FTS	92.9		40-200				4/4/25 16:57			
13C2-8:2FTS	74.1		40-300				4/4/25 16:57			
13C8-PFOSA	76.6		40-130				4/4/25 16:57			
D3-NMeFOSA	58.0		10-130				4/4/25 16:57			
D5-NEtFOSA	59.6		10-130				4/4/25 16:57			
D3-NMeFOSAA	65.7		40-170				4/4/25 16:57			
D5-NEtFOSAA	59.7		25-135				4/4/25 16:57			
D7-NMeFOSE	61.9		10-130				4/4/25 16:57			
D9-NEtFOSE	58.0		10-130				4/4/25 16:57			
13C3-HFPO-DA	87.0		40-130				4/4/25 16:57			

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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)	34	6.7	0.84	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorohexanoic acid (PFHxA)	0.83	1.7	0.29	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroheptanoic acid (PFHpA)	0.80	1.7	0.30	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanoic acid (PFOA)	1.1	1.7	0.44	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorononanoic acid (PFNA)	0.80	1.7	0.69	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorodecanoic acid (PFDA)	ND	1.7	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanesulfonic acid (PFOS)	0.86	1.7	0.42	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.76	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluorooctanesulfonamide (PFOSA)	0.76	1.7	0.59	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.99	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
11Cl-PF3OUDS (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	42	9.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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	3.4	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:06	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	88.4		5-130				4/4/25 17:06			
13C5-PFPeA	81.8		40-130				4/4/25 17:06			
13C5-PFHxA	89.3		40-130				4/4/25 17:06			
13C4-PFHpA	89.0		40-130				4/4/25 17:06			
13C8-PFOA	87.3		40-130				4/4/25 17:06			
13C9-PFNA	88.4		40-130				4/4/25 17:06			
13C6-PFDA	88.8		40-130				4/4/25 17:06			
13C7-PFUnA	84.5		30-130				4/4/25 17:06			
13C2-PFDoA	72.8		10-130				4/4/25 17:06			
13C2-PFTeDA	60.8		10-130				4/4/25 17:06			
13C3-PFBS	84.8		40-135				4/4/25 17:06			
13C3-PFHxS	88.8		40-130				4/4/25 17:06			
13C8-PFOS	84.1		40-130				4/4/25 17:06			
13C2-4:2FTS	200		40-200				4/4/25 17:06			
13C2-6:2FTS	147		40-200				4/4/25 17:06			
13C2-8:2FTS	103		40-300				4/4/25 17:06			
13C8-PFOSA	80.6		40-130				4/4/25 17:06			
D3-NMeFOSA	61.2		10-130				4/4/25 17:06			
D5-NEtFOSA	60.2		10-130				4/4/25 17:06			
D3-NMeFOSAA	78.1		40-170				4/4/25 17:06			
D5-NEtFOSAA	74.4		25-135				4/4/25 17:06			
D7-NMeFOSE	63.9		10-130				4/4/25 17:06			
D9-NEtFOSE	58.4		10-130				4/4/25 17:06			
13C3-HFPO-DA	82.3		40-130				4/4/25 17:06			

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250
 Date Received: 3/20/2025
 Field Sample #: MW-12 03192025 Sampled: 3/19/2025 09:25
 Sample ID: 25C1250-14
 Sample Matrix: 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)	87	6.3	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorohexanoic acid (PFHxA)	0.74	1.6	0.27	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroheptanoic acid (PFHpA)	0.69	1.6	0.28	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanoic acid (PFOA)	2.5	1.6	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorononanoic acid (PFNA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorobutanesulfonic acid (PFBS)	0.48	1.6	0.34	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorohexanesulfonic acid (PFHxS)	0.63	1.6	0.61	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanesulfonic acid (PFOS)	1.1	1.6	0.39	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.70	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	1.3	ng/L	1	PF-17	Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	2.9	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	3.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.63	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	0.83	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
9Cl-PF3ONS (F53B Minor)	ND	6.3	0.91	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
11Cl-PF3OUDs (F53B Major)	ND	6.3	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	2.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	8.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.56	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML

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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: 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	3.1	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:15	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	38.1		5-130		PF-24		4/4/25 17:15			
13C5-PFPeA	78.1		40-130				4/4/25 17:15			
13C5-PFHxA	89.3		40-130				4/4/25 17:15			
13C4-PFHpA	97.0		40-130				4/4/25 17:15			
13C8-PFOA	90.3		40-130				4/4/25 17:15			
13C9-PFNA	90.6		40-130				4/4/25 17:15			
13C6-PFDA	93.4		40-130				4/4/25 17:15			
13C7-PFUnA	94.5		30-130				4/4/25 17:15			
13C2-PFDoA	86.9		10-130				4/4/25 17:15			
13C2-PFTeDA	75.2		10-130				4/4/25 17:15			
13C3-PFBS	83.6		40-135				4/4/25 17:15			
13C3-PFHxS	90.5		40-130				4/4/25 17:15			
13C8-PFOS	86.6		40-130				4/4/25 17:15			
13C2-4:2FTS	213 *		40-200		PF-17		4/4/25 17:15			
13C2-6:2FTS	177		40-200				4/4/25 17:15			
13C2-8:2FTS	123		40-300				4/4/25 17:15			
13C8-PFOSA	81.4		40-130				4/4/25 17:15			
D3-NMeFOSA	62.3		10-130				4/4/25 17:15			
D5-NEtFOSA	62.8		10-130				4/4/25 17:15			
D3-NMeFOSAA	77.7		40-170				4/4/25 17:15			
D5-NEtFOSAA	76.1		25-135				4/4/25 17:15			
D7-NMeFOSE	66.9		10-130				4/4/25 17:15			
D9-NEtFOSE	62.4		10-130				4/4/25 17:15			
13C3-HFPO-DA	79.5		40-130				4/4/25 17:15			

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	5.9	0.74	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.57	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	3.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.51	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	0.78	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	0.86	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
11Cl-PF3OUDs (F53B Major)	ND	5.9	1.5	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	6.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	37	8.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025

Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	2.9	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:24	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	76.9		5-130				4/4/25 17:24			
13C5-PFPeA	98.4		40-130				4/4/25 17:24			
13C5-PFHxA	96.5		40-130				4/4/25 17:24			
13C4-PFHpA	95.8		40-130				4/4/25 17:24			
13C8-PFOA	92.1		40-130				4/4/25 17:24			
13C9-PFNA	92.7		40-130				4/4/25 17:24			
13C6-PFDA	94.5		40-130				4/4/25 17:24			
13C7-PFUnA	95.5		30-130				4/4/25 17:24			
13C2-PFDoA	85.6		10-130				4/4/25 17:24			
13C2-PFTeDA	86.0		10-130				4/4/25 17:24			
13C3-PFBS	96.5		40-135				4/4/25 17:24			
13C3-PFHxS	98.7		40-130				4/4/25 17:24			
13C8-PFOS	92.6		40-130				4/4/25 17:24			
13C2-4:2FTS	96.7		40-200				4/4/25 17:24			
13C2-6:2FTS	103		40-200				4/4/25 17:24			
13C2-8:2FTS	105		40-300				4/4/25 17:24			
13C8-PFOSA	89.4		40-130				4/4/25 17:24			
D3-NMeFOSA	73.6		10-130				4/4/25 17:24			
D5-NEtFOSA	76.6		10-130				4/4/25 17:24			
D3-NMeFOSAA	76.0		40-170				4/4/25 17:24			
D5-NEtFOSAA	74.5		25-135				4/4/25 17:24			
D7-NMeFOSE	77.2		10-130				4/4/25 17:24			
D9-NEtFOSE	72.5		10-130				4/4/25 17:24			
13C3-HFPO-DA	100		40-130				4/4/25 17:24			

Project Location: 2145 Dwyer Ave, Utica, NY			Sample Description:			Work Order: 25C1250		
Date Received: 3/20/2025			Sampled: 3/19/2025 13:10					
Field Sample #: BR-2 03192025								
Sample ID: 25C1250-17								
Sample Matrix: 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)	4.0	6.1	0.76	ng/L	1	J	Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoropentanoic acid (PFPeA)	ND	3.0	0.42	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanoic acid (PFOA)	ND	1.5	0.40	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorononanoic acid (PFNA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.81	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.48	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	1.3	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	2.8	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	3.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.53	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.31	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.61	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	1.4	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.1	0.81	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
9Cl-PF3ONS (F53B Minor)	ND	6.1	0.89	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
11Cl-PF3OUDs (F53B Major)	ND	6.1	1.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.6	2.1	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	6.7	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	38	8.6	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	0.54	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	0.44	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML

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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: 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	3.0	0.41	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	2.0	ng/L	1		Draft Method 1633	3/24/25	4/4/25 17:33	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	85.3		5-130				4/4/25 17:33			
13C5-PFPeA	91.0		40-130				4/4/25 17:33			
13C5-PFHxA	91.3		40-130				4/4/25 17:33			
13C4-PFHpA	87.6		40-130				4/4/25 17:33			
13C8-PFOA	87.0		40-130				4/4/25 17:33			
13C9-PFNA	89.2		40-130				4/4/25 17:33			
13C6-PFDA	81.6		40-130				4/4/25 17:33			
13C7-PFUnA	78.1		30-130				4/4/25 17:33			
13C2-PFDoA	73.2		10-130				4/4/25 17:33			
13C2-PFTeDA	70.8		10-130				4/4/25 17:33			
13C3-PFBS	90.6		40-135				4/4/25 17:33			
13C3-PFHxS	88.7		40-130				4/4/25 17:33			
13C8-PFOS	80.8		40-130				4/4/25 17:33			
13C2-4:2FTS	90.5		40-200				4/4/25 17:33			
13C2-6:2FTS	86.5		40-200				4/4/25 17:33			
13C2-8:2FTS	87.6		40-300				4/4/25 17:33			
13C8-PFOSA	78.9		40-130				4/4/25 17:33			
D3-NMeFOSA	60.5		10-130				4/4/25 17:33			
D5-NEtFOSA	62.8		10-130				4/4/25 17:33			
D3-NMeFOSAA	63.9		40-170				4/4/25 17:33			
D5-NEtFOSAA	59.6		25-135				4/4/25 17:33			
D7-NMeFOSE	62.5		10-130				4/4/25 17:33			
D9-NEtFOSE	59.9		10-130				4/4/25 17:33			
13C3-HFPO-DA	89.7		40-130				4/4/25 17:33			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-9 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-01

Sample Matrix: 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	0.11	µg/L	1		SW-846 8270E	3/20/25	3/24/25 22:33	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		28.7	15-110				3/24/25 22:33			



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Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-10 03182025

Sampled: 3/18/2025 11:15

Sample ID: 25C1250-02

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 22:54	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.8		15-110				3/24/25 22:54			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: DUP-1 03182025

Sampled: 3/18/2025 00:00

Sample ID: 25C1250-03

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:14	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		23.3	15-110				3/24/25 23:14			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-6 03182025

Sampled: 3/18/2025 13:15

Sample ID: 25C1250-04

Sample Matrix: 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	18	0.20	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:34	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		27.2	15-110				3/24/25 23:34			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-17 03182025

Sampled: 3/18/2025 13:23

Sample ID: 25C1250-05

Sample Matrix: 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	0.22	0.20	0.18	µg/L	1		SW-846 8270E	3/20/25	3/24/25 23:54	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	29.3		15-110				3/24/25 23:54			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-5 03182025

Sampled: 3/18/2025 14:05

Sample ID: 25C1250-06

Sample Matrix: 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	2.8	0.21	0.19	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:15	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.7		15-110				3/25/25 0:15			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-18 03182025

Sampled: 3/18/2025 14:45

Sample ID: 25C1250-07

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:35	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.7		15-110				3/25/25 0:35			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-4 03182025

Sampled: 3/18/2025 15:10

Sample ID: 25C1250-08

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/20/25	3/25/25 0:56	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.6		15-110				3/25/25 0:56			



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

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-11 03182025 Sampled: 3/18/2025 16:16

Sample ID: 25C1250-09

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/20/25	3/25/25 1:16	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.9		15-110				3/25/25 1:16			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-3 03182025

Sampled: 3/18/2025 16:20

Sample ID: 25C1250-10

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 13:39	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		27.4	15-110				3/26/25 13:39			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Sampled: 3/19/2025 09:00

Field Sample #: MW-15 03192025

Sample ID: 25C1250-11

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 13:58	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		29.4	15-110				3/26/25 13:58			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-16 03192025

Sampled: 3/19/2025 10:00

Sample ID: 25C1250-12

Sample Matrix: 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	1.9	0.22	0.20	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:18	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		29.3		15-110				3/26/25 14:18		



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-13 03192025

Sampled: 3/19/2025 12:35

Sample ID: 25C1250-13

Sample Matrix: 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	0.22	0.20	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:38	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		27.6	15-110				3/26/25 14:38			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: MW-12 03192025

Sampled: 3/19/2025 09:25

Sample ID: 25C1250-14

Sample Matrix: 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	0.34	0.20	0.18	µg/L	1		SW-846 8270E	3/25/25	3/26/25 23:33	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.8		15-110				3/26/25 23:33			



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

Project Location: 2145 Dwyer Ave, Utica, NY Sample Description: Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-1 03192025 Sampled: 3/19/2025 11:11

Sample ID: 25C1250-15

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 14:57	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		25.7	15-110				3/26/25 14:57			



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

Project Location: 2145 Dwyer Ave, Utica, NY

Sample Description:

Work Order: 25C1250

Date Received: 3/20/2025

Field Sample #: BR-2 03192025

Sampled: 3/19/2025 13:10

Sample ID: 25C1250-17

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:17	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual					
1,4-Dioxane-d8		26.7	15-110				3/26/25 15:17			

VALIDATA

Chemical Services, Inc.

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(770) 232-5082 (Fax)

www.datavalidator.com

DATA USABILITY SUMMARY REPORT

COMPANY: AECOM
PROJECT NAME: NYSDEC- Northeast Alloys_March 2025 GW Data
CONTRACTED LAB: PACE – New England
QA/QC LEVEL: DUSR
ANALYTICAL METHOD(S): SW-846 and EPA Methods
VALIDATION GUIDELINES: *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 2020, Professional Judgement*
SAMPLE MATRIX: Soil/Water
TYPES OF ANALYSES: Polyfluoroalkyl Substances (PFAS) Method 1633, 1,4-Dioxane (SVOC-SIM) Method 8270E-SIM,
VALIDATION DATE: 6/3/2025
DATA REVIEWER(S): Steve Learn
SDG NUMBER: 25C1285
SAMPLING DATE(S): March 19, 2024

SAMPLES:

<u>Client Sample ID</u>	<u>Laboratory ID</u>	<u>PFAS</u>	<u>1,4-DIOXANE</u>
MW-14 03192025	25C1285-01	X	X
BR-3 03192025	25C1285-02	X	X
MW-7R 03192025	25C1285-03	X	X
MW-1 03192025	25C1285-04	X	X
MW-8 03192025	25C1285-05	X	X
Field Blank	25C1285-06	X	X
Equip Blank	25C1285-07	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

PACE – New England – 25C1285

PFAS

I.) General

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using EPA Method 1633.

II.) Overall Assessment of Data

The overall assessment of data was acceptable with qualifications with the exception of some data that was rejected due to very low EIS recovery (see section IX)

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) LC-MS Tuning:

All LC-MS Tuning criteria were met. All mass calibration criteria were met. No data qualification was necessary.

V.) Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

VI.) Instrument Sensitivity Check (ISC):

Analyte concentrations were at LOQ. The ISC samples met all project QPP requirements. No data qualification was necessary.

VII.) Continuing Calibration:

All continuing calibration verification criteria were met. No data qualification was necessary.

VIII.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary.

Equipment Blanks:

There were no equipment blanks analyzed as part of this SDG. No data qualification was necessary.

IX.) Extracted Internal Standard (EIS) Analytes/Non-Extracted Internal Standard (NIS) Analytes:

All EIS/NIS % recoveries in the samples in this SDG reported recoveries within criteria with the following exceptions.

<u>Sample ID</u>	<u>Analyte</u>	<u>% Recovery</u>	<u>QC Limits</u>
MW-14 03192025	13C4-PFBA	2.66%	5-130%
	13C5-PFPeA	32.4%	40-130%
MW-8 03192025	D3-NMeFOSAA	34.5%	40-170%

Because the 13C4-PFBA recovery was less than 5% results for the associated analytes were flagged as rejected (X). Since the other EIS outliers were below QC Limits associated analytes were flagged as estimated (UJ) because they were not detected in the samples.

X.) Low Level Laboratory Control Sample/Laboratory Control Sample/Laboratory Control Sample Duplicate (LLLCS/LCS/LCSD):

An LLLCS, LCS, and LCSD were prepared and analyzed for the soil preparation batch. All LLLCS, LCS, and LCSD recoveries met project QPP criteria. No data qualification was necessary.

XI.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed with this SDG. No data qualification was necessary.

XII.) Field Duplicates:

There were no field duplicates associated with this SDG. No data qualification was necessary.

XIII.) Ion Transitions:

Ion transition criteria were met. No qualification was necessary.

XIV.) Ion Ratio:

All ion ratio criteria were met. No data qualification was necessary.

XV.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XVI.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XVII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

XVIII.) Bile Salt Standard Retention Time Check:

The bile salt standard met the method retention time requirements.

1,4-DIOXANE

SUMMARY

I.) General:

The analyses for Semivolatile Organics were performed per 8270E-SIM.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

III.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

IV.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

V.) Calibration:

Initial Calibration:

All initial calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All initial calibration verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All continuing calibration criteria were met. No data qualification was necessary.

VI.) Blanks:

Method Blanks:

There were no detections in the method blanks for this SDG. No data qualification was necessary.

Trip Blanks:

There were no trip blanks analyzed as part of this SDG. No data qualification was necessary.

Field Blanks:

There were no field blanks analyzed as part of this SDG. No data qualification was necessary

VII.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VIII.) Laboratory Control Samples/Duplicate (LCS/LCSD):

There was one Laboratory Control Sample/Duplicate analyzed as part of this SDG. All recovery criteria were within limits. No data qualification was necessary.

IX.) Matrix Spike/Matrix Spike Duplicate (MS/MSD).

There was no MS/MSD analyzed for this fraction of the SDG. No data qualification was necessary.

X.) Field Duplicates:

There were no field duplicates analyzed as part of this SDG. No data qualification was necessary.

XI.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No data qualification was necessary.

XIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met.

Project Location: Utica, NY	Sample Description:	Work Order: 25C1285
Date Received: 3/21/2025		
Field Sample #: MW-14 03192025	Sampled: 3/19/2025 13:30	
Sample ID: 25C1285-01		
Sample Matrix: 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	6.7	0.84	ng/L	1	PF-18 X	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.47	ng/L	1	S-29 UJ	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorohexanoic acid (PFHxA)	1.6	1.7	0.29	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroheptanoic acid (PFHpA)	0.82	1.7	0.30	ng/L	1	PF-23, J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanoic acid (PFOA)	4.1	1.7	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanesulfonic acid (PFOS)	0.44	1.7	0.42	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.98	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
11Cl-PF3OUDS (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	42	9.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	46	3.4	0.48	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB

Project Location: Utica, NY Sample Description: Work Order: 25C1285
 Date Received: 3/21/2025
 Field Sample #: MW-14 03192025 Sampled: 3/19/2025 13:30
 Sample ID: 25C1285-01
 Sample Matrix: 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	3.4	0.45	ng/L	1	S-29	Draft Method 1633	3/27/25	4/2/25 19:03	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:03	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	2.66	*	5-130		PF-18			4/2/25	19:03	
13C5-PFPeA	32.4	*	40-130		S-29			4/2/25	19:03	
13C5-PFHxA	74.9		40-130					4/2/25	19:03	
13C4-PFHpA	70.8		40-130					4/2/25	19:03	
13C8-PFOA	93.0		40-130					4/2/25	19:03	
13C9-PFNA	71.9		40-130					4/2/25	19:03	
13C6-PFDA	72.2		40-130					4/2/25	19:03	
13C7-PFUnA	76.8		30-130					4/2/25	19:03	
13C2-PFDoA	58.6		10-130					4/2/25	19:03	
13C2-PFTeDA	23.2		10-130					4/2/25	19:03	
13C3-PFBS	62.5		40-135					4/2/25	19:03	
13C3-PFHxS	74.8		40-130					4/2/25	19:03	
13C8-PFOS	72.3		40-130					4/2/25	19:03	
13C2-4:2FTS	189		40-200					4/2/25	19:03	
13C2-6:2FTS	187		40-200					4/2/25	19:03	
13C2-8:2FTS	242		40-300					4/2/25	19:03	
13C8-PFOSA	69.3		40-130					4/2/25	19:03	
D3-NMeFOSA	54.5		10-130					4/2/25	19:03	
D5-NEtFOSA	50.1		10-130					4/2/25	19:03	
D3-NMeFOSAA	81.7		40-170					4/2/25	19:03	
D5-NEtFOSAA	96.8		25-135					4/2/25	19:03	
D7-NMeFOSE	32.3		10-130					4/2/25	19:03	
D9-NEtFOSE	26.1		10-130					4/2/25	19:03	
13C3-HFPO-DA	63.1		40-130					4/2/25	19:03	

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025

Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: 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	5.7	0.71	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoropentanoic acid (PFPeA)	ND	2.8	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorohexanoic acid (PFHxA)	ND	1.4	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.4	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanoic acid (PFOA)	ND	1.4	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorononanoic acid (PFNA)	ND	1.4	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorodecanoic acid (PFDA)	ND	1.4	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.4	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorododecanoic acid (PFDoA)	ND	1.4	0.31	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	0.14	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.4	0.31	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.4	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.4	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.4	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.4	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	0.64	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	2.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	2.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	0.24	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-MeFOSAA (NMeFOSAA)	ND	1.4	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-EtFOSAA (NEtFOSAA)	ND	1.4	0.57	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
9Cl-PF3ONS (F53B Minor)	ND	5.7	0.83	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
11Cl-PF3OUDs (F53B Major)	ND	5.7	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.1	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	36	6.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	8.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.8	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.8	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB

Project Location: Utica, NY Sample Description: Work Order: 25C1285
 Date Received: 3/21/2025
 Field Sample #: BR-3 03192025 Sampled: 3/19/2025 15:10
 Sample ID: 25C1285-02
 Sample Matrix: Water

Semivolatle 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	2.8	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.8	1.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:42	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	78.8		5-130				4/2/25 19:42			
13C5-PFPeA	73.5		40-130				4/2/25 19:42			
13C5-PFHxA	75.0		40-130				4/2/25 19:42			
13C4-PFHpA	68.4		40-130				4/2/25 19:42			
13C8-PFOA	88.3		40-130				4/2/25 19:42			
13C9-PFNA	69.8		40-130				4/2/25 19:42			
13C6-PFDA	68.0		40-130				4/2/25 19:42			
13C7-PFUnA	65.9		30-130				4/2/25 19:42			
13C2-PFDoA	54.6		10-130				4/2/25 19:42			
13C2-PFTeDA	48.9		10-130				4/2/25 19:42			
13C3-PFBS	64.6		40-135				4/2/25 19:42			
13C3-PFHxS	74.3		40-130				4/2/25 19:42			
13C8-PFOS	65.2		40-130				4/2/25 19:42			
13C2-4:2FTS	63.4		40-200				4/2/25 19:42			
13C2-6:2FTS	74.4		40-200				4/2/25 19:42			
13C2-8:2FTS	71.4		40-300				4/2/25 19:42			
13C8-PFOSA	57.6		40-130				4/2/25 19:42			
D3-NMeFOSA	46.3		10-130				4/2/25 19:42			
D5-NEtFOSA	44.0		10-130				4/2/25 19:42			
D3-NMeFOSAA	48.7		40-170				4/2/25 19:42			
D5-NEtFOSAA	48.6		25-135				4/2/25 19:42			
D7-NMeFOSE	41.7		10-130				4/2/25 19:42			
D9-NEtFOSE	39.1		10-130				4/2/25 19:42			
13C3-HFPO-DA	80.3		40-130				4/2/25 19:42			

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sampled: 3/19/2025 16:10

Sample ID: 25C1285-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.0	6.4	0.80	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoropentanoic acid (PFPeA)	0.92	3.2	0.44	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorohexanoic acid (PFHxA)	0.34	1.6	0.28	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.6	0.28	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanoic acid (PFOA)	ND	1.6	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorononanoic acid (PFNA)	ND	1.6	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorodecanoic acid (PFDA)	ND	1.6	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.6	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorododecanoic acid (PFDoA)	ND	1.6	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	0.15	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	0.62	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.6	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	0.72	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.4	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.4	3.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.4	3.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	0.33	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-MeFOSAA (NMeFOSAA)	ND	1.6	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-EtFOSAA (NEtFOSAA)	ND	1.6	0.64	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.4	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.4	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
9Cl-PF3ONS (F53B Minor)	ND	6.4	0.93	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
11Cl-PF3OUDs (F53B Major)	ND	6.4	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.0	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	7.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	40	8.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	0.57	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB

Project Location: Utica, NY Sample Description: Work Order: 25C1285
 Date Received: 3/21/2025
 Field Sample #: MW-7R 03192025 Sampled: 3/19/2025 16:10
 Sample ID: 25C1285-03
 Sample Matrix: Water

Semivolatle 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	3.2	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	2.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 19:51	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	82.3		5-130				4/2/25 19:51			
13C5-PFPeA	76.4		40-130				4/2/25 19:51			
13C5-PFHxA	79.9		40-130				4/2/25 19:51			
13C4-PFHpA	73.4		40-130				4/2/25 19:51			
13C8-PFOA	90.8		40-130				4/2/25 19:51			
13C9-PFNA	77.8		40-130				4/2/25 19:51			
13C6-PFDA	75.3		40-130				4/2/25 19:51			
13C7-PFUnA	68.7		30-130				4/2/25 19:51			
13C2-PFDoA	55.6		10-130				4/2/25 19:51			
13C2-PFTeDA	47.6		10-130				4/2/25 19:51			
13C3-PFBS	68.0		40-135				4/2/25 19:51			
13C3-PFHxS	79.0		40-130				4/2/25 19:51			
13C8-PFOS	73.5		40-130				4/2/25 19:51			
13C2-4:2FTS	47.5		40-200				4/2/25 19:51			
13C2-6:2FTS	64.6		40-200				4/2/25 19:51			
13C2-8:2FTS	66.9		40-300				4/2/25 19:51			
13C8-PFOA	61.4		40-130				4/2/25 19:51			
D3-NMeFOSA	52.1		10-130				4/2/25 19:51			
D5-NEtFOSA	49.3		10-130				4/2/25 19:51			
D3-NMeFOSAA	50.9		40-170				4/2/25 19:51			
D5-NEtFOSAA	52.6		25-135				4/2/25 19:51			
D7-NMeFOSE	45.8		10-130				4/2/25 19:51			
D9-NEtFOSE	42.9		10-130				4/2/25 19:51			
13C3-HFPO-DA	82.6		40-130				4/2/25 19:51			

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-1 03192025

Sampled: 3/19/2025 16:20

Sample ID: 25C1285-04

Sample Matrix: 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)	0.89	5.8	0.73	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoropentanoic acid (PFPeA)	ND	2.9	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanoic acid (PFOA)	ND	1.5	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.14	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorobutanesulfonic acid (PFBS)	1.0	1.5	0.31	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.56	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.5	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.66	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.8	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.8	2.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.8	3.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.51	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.25	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.8	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.8	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
9Cl-PF3ONS (F53B Minor)	ND	5.8	0.85	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
11Cl-PF3OUDs (F53B Major)	ND	5.8	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.3	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	36	6.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	8.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.9	0.52	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB

Project Location: Utica, NY 39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
 Date Received: 3/21/2025 Sample Description: Work Order: 25C1285
 Field Sample #: MW-1 03192025 Sampled: 3/19/2025 16:20
 Sample ID: 25C1285-04
 Sample Matrix: Water

Semivolatle 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	2.9	0.39	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	2.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:00	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	83.9		5-130				4/2/25 20:00			
13C5-PFPeA	79.5		40-130				4/2/25 20:00			
13C5-PFHxA	80.8		40-130				4/2/25 20:00			
13C4-PFHpA	77.2		40-130				4/2/25 20:00			
13C8-PFOA	97.3		40-130				4/2/25 20:00			
13C9-PFNA	80.1		40-130				4/2/25 20:00			
13C6-PFDA	76.4		40-130				4/2/25 20:00			
13C7-PFUnA	78.1		30-130				4/2/25 20:00			
13C2-PFDoA	68.5		10-130				4/2/25 20:00			
13C2-PFTeDA	60.3		10-130				4/2/25 20:00			
13C3-PFBS	74.3		40-135				4/2/25 20:00			
13C3-PFHxS	82.8		40-130				4/2/25 20:00			
13C8-PFOS	81.6		40-130				4/2/25 20:00			
13C2-4:2FTS	59.0		40-200				4/2/25 20:00			
13C2-6:2FTS	75.6		40-200				4/2/25 20:00			
13C2-8:2FTS	79.1		40-300				4/2/25 20:00			
13C8-PFOSA	67.6		40-130				4/2/25 20:00			
D3-NMeFOSA	58.1		10-130				4/2/25 20:00			
D5-NEtFOSA	51.9		10-130				4/2/25 20:00			
D3-NMeFOSAA	58.2		40-170				4/2/25 20:00			
D5-NEtFOSAA	59.2		25-135				4/2/25 20:00			
D7-NMeFOSE	52.9		10-130				4/2/25 20:00			
D9-NEtFOSE	49.5		10-130				4/2/25 20:00			
13C3-HFPO-DA	88.5		40-130				4/2/25 20:00			

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: MW-8 03192025

Sampled: 3/20/2025 09:38

Sample ID: 25C1285-05

Sample Matrix: 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)	7.9	6.2	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoropentanoic acid (PFPeA)	ND	3.1	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorohexanoic acid (PFHxA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.5	0.27	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanoic acid (PFOA)	ND	1.5	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorononanoic acid (PFNA)	ND	1.5	0.63	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorodecanoic acid (PFDA)	ND	1.5	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorododecanoic acid (PFDoA)	ND	1.5	0.34	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	0.15	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.5	0.33	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.5	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	0.82	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanesulfonic acid (PFOS)	0.49	1.5	0.38	ng/L	1	J	Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.5	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	0.69	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	2.9	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	3.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	0.26	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	0.32	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-MeFOSAA (NMeFOSAA)	ND	1.5	1.5	ng/L	1	S-29 UJ	Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-EtFOSAA (NEtFOSAA)	ND	1.5	0.62	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	1.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	1.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.2	0.82	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
9Cl-PF3ONS (F53B Minor)	ND	6.2	0.90	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
11Cl-PF3OUDs (F53B Major)	ND	6.2	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	6.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	39	8.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB

Project Location: Utica, NY Sample Description: Work Order: 25C1285
 Date Received: 3/21/2025
 Field Sample #: MW-8 03192025 Sampled: 3/20/2025 09:38
 Sample ID: 25C1285-05
 Sample Matrix: Water

Semivolatle 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	3.1	0.41	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	2.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:09	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.3		5-130				4/2/25 20:09			
13C5-PFPeA	74.3		40-130				4/2/25 20:09			
13C5-PFHxA	74.2		40-130				4/2/25 20:09			
13C4-PFHpA	71.5		40-130				4/2/25 20:09			
13C8-PFOA	82.5		40-130				4/2/25 20:09			
13C9-PFNA	67.9		40-130				4/2/25 20:09			
13C6-PFDA	63.6		40-130				4/2/25 20:09			
13C7-PFUnA	63.6		30-130				4/2/25 20:09			
13C2-PFDoA	44.3		10-130				4/2/25 20:09			
13C2-PFTeDA	23.8		10-130				4/2/25 20:09			
13C3-PFBS	64.9		40-135				4/2/25 20:09			
13C3-PFHxS	72.6		40-130				4/2/25 20:09			
13C8-PFOS	62.4		40-130				4/2/25 20:09			
13C2-4:2FTS	52.9		40-200				4/2/25 20:09			
13C2-6:2FTS	58.0		40-200				4/2/25 20:09			
13C2-8:2FTS	60.4		40-300				4/2/25 20:09			
13C8-PFOSA	56.6		40-130				4/2/25 20:09			
D3-NMeFOSA	43.6		10-130				4/2/25 20:09			
D5-NEtFOSA	35.0		10-130				4/2/25 20:09			
D3-NMeFOSAA	34.5 *		40-170		S-29		4/2/25 20:09			
D5-NEtFOSAA	34.7		25-135				4/2/25 20:09			
D7-NMeFOSE	29.5		10-130				4/2/25 20:09			
D9-NEtFOSE	21.2		10-130				4/2/25 20:09			
13C3-HFPO-DA	79.1		40-130				4/2/25 20:09			

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Field Blank

Sampled: 3/20/2025 10:20

Sample ID: 25C1285-06

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	6.7	0.84	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoropentanoic acid (PFPeA)	ND	3.3	0.47	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanoic acid (PFOA)	ND	1.7	0.44	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.68	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.40	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.16	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.65	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.49	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.53	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.75	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.7	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.7	3.1	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.7	3.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.58	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.7	0.89	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
9Cl-PF3ONS (F53B Minor)	ND	6.7	0.98	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
11Cl-PF3OUDs (F53B Major)	ND	6.7	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.4	2.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	42	7.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	42	9.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.3	0.59	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.3	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB

Project Location: Utica, NY 39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
 Date Received: 3/21/2025 Sample Description:
 Field Sample #: Field Blank Sampled: 3/20/2025 10:20
 Sample ID: 25C1285-06
 Sample Matrix: Field Blank

Semivolatle 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	3.3	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.3	2.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:19	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	84.3		5-130				4/2/25 20:19			
13C5-PFPeA	81.2		40-130				4/2/25 20:19			
13C5-PFHxA	82.3		40-130				4/2/25 20:19			
13C4-PFHpA	74.3		40-130				4/2/25 20:19			
13C8-PFOA	96.9		40-130				4/2/25 20:19			
13C9-PFNA	80.2		40-130				4/2/25 20:19			
13C6-PFDA	76.8		40-130				4/2/25 20:19			
13C7-PFUnA	82.1		30-130				4/2/25 20:19			
13C2-PFDoA	70.7		10-130				4/2/25 20:19			
13C2-PFTeDA	63.8		10-130				4/2/25 20:19			
13C3-PFBS	72.2		40-135				4/2/25 20:19			
13C3-PFHxS	85.0		40-130				4/2/25 20:19			
13C8-PFOS	80.0		40-130				4/2/25 20:19			
13C2-4:2FTS	81.0		40-200				4/2/25 20:19			
13C2-6:2FTS	88.6		40-200				4/2/25 20:19			
13C2-8:2FTS	88.5		40-300				4/2/25 20:19			
13C8-PFOSA	62.4		40-130				4/2/25 20:19			
D3-NMeFOSA	56.9		10-130				4/2/25 20:19			
D5-NEtFOSA	52.7		10-130				4/2/25 20:19			
D3-NMeFOSAA	63.4		40-170				4/2/25 20:19			
D5-NEtFOSAA	68.3		25-135				4/2/25 20:19			
D7-NMeFOSE	51.9		10-130				4/2/25 20:19			
D9-NEtFOSE	49.8		10-130				4/2/25 20:19			
13C3-HFPO-DA	83.5		40-130				4/2/25 20:19			

Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Equip Blank

Sampled: 3/20/2025 10:15

Sample ID: 25C1285-07

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	6.9	0.86	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoropentanoic acid (PFPeA)	ND	3.4	0.48	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorohexanoic acid (PFHxA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanoic acid (PFOA)	ND	1.7	0.45	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorononanoic acid (PFNA)	ND	1.7	0.70	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorodecanoic acid (PFDA)	ND	1.7	0.42	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.7	0.55	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorododecanoic acid (PFDoA)	ND	1.7	0.38	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.7	0.52	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.7	0.17	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.7	0.37	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7	0.67	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7	0.91	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.7	0.43	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.7	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.7	0.54	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.7	0.77	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.9	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.9	3.2	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.9	3.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.7	0.60	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.7	0.29	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.7	0.36	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-MeFOSAA (NMeFOSAA)	ND	1.7	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-EtFOSAA (NEtFOSAA)	ND	1.7	0.69	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	17	1.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	17	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.9	1.6	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.9	0.91	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
9Cl-PF3ONS (F53B Minor)	ND	6.9	1.0	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
11Cl-PF3OUDs (F53B Major)	ND	6.9	1.8	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.6	2.4	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	7.5	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	43	9.7	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.4	0.61	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.4	0.50	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB

Project Location: Utica, NY 39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
 Date Received: 3/21/2025 Sample Description: Work Order: 25C1285
 Field Sample #: Equip Blank Sampled: 3/20/2025 10:15
 Sample ID: 25C1285-07
 Sample Matrix: Equipment Blank Water

Semivolatle 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	3.4	0.46	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.4	2.3	ng/L	1		Draft Method 1633	3/27/25	4/2/25 20:28	AB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	81.1		5-130				4/2/25 20:28			
13C5-PFPeA	78.2		40-130				4/2/25 20:28			
13C5-PFHxA	78.8		40-130				4/2/25 20:28			
13C4-PFHpA	71.6		40-130				4/2/25 20:28			
13C8-PFOA	96.6		40-130				4/2/25 20:28			
13C9-PFNA	81.0		40-130				4/2/25 20:28			
13C6-PFDA	81.5		40-130				4/2/25 20:28			
13C7-PFUnA	80.0		30-130				4/2/25 20:28			
13C2-PFDoA	70.8		10-130				4/2/25 20:28			
13C2-PFTeDA	64.6		10-130				4/2/25 20:28			
13C3-PFBS	67.1		40-135				4/2/25 20:28			
13C3-PFHxS	81.2		40-130				4/2/25 20:28			
13C8-PFOS	77.5		40-130				4/2/25 20:28			
13C2-4:2FTS	77.5		40-200				4/2/25 20:28			
13C2-6:2FTS	82.8		40-200				4/2/25 20:28			
13C2-8:2FTS	82.7		40-300				4/2/25 20:28			
13C8-PFOSA	63.4		40-130				4/2/25 20:28			
D3-NMeFOSA	59.1		10-130				4/2/25 20:28			
D5-NEtFOSA	53.9		10-130				4/2/25 20:28			
D3-NMeFOSAA	63.2		40-170				4/2/25 20:28			
D5-NEtFOSAA	68.7		25-135				4/2/25 20:28			
D7-NMeFOSE	51.5		10-130				4/2/25 20:28			
D9-NEtFOSE	50.0		10-130				4/2/25 20:28			
13C3-HFPO-DA	86.4		40-130				4/2/25 20:28			



Project Location: Utica, NY 39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 Work Order: 25C1285
Date Received: 3/21/2025 Sample Description:
Field Sample #: MW-14 03192025 Sampled: 3/19/2025 13:30
Sample ID: 25C1285-01
Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:36	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.2		15-110				3/26/25 15:36			



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

Project Location: Utica, NY Sample Description: Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: BR-3 03192025 Sampled: 3/19/2025 15:10

Sample ID: 25C1285-02

Sample Matrix: 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	0.19	µg/L	1		SW-846 8270E	3/24/25	3/26/25 15:56	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		30.9		15-110				3/26/25 15:56		



Project Location: Utica, NY

Date Received: 3/21/2025

Field Sample #: MW-7R 03192025

Sample ID: 25C1285-03

Sample Matrix: Water

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

Sample Description:

Work Order: 25C1285

Sampled: 3/19/2025 16:10

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	0.23	0.21	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:16	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.4		15-110				3/26/25 16:16			



Project Location: Utica, NY

Sample Description:

Work Order: 25C1285

Date Received: 3/21/2025

Sampled: 3/19/2025 16:20

Field Sample #: MW-1 03192025

Sample ID: 25C1285-04

Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:36	GJB
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		28.6		15-110				3/26/25 16:36		



Project Location: Utica, NY	39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332	Work Order: 25C1285
Date Received: 3/21/2025	Sample Description:	
Field Sample #: MW-8 03192025	Sampled: 3/20/2025 09:38	
Sample ID: 25C1285-05		
Sample Matrix: 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	0.18	µg/L	1		SW-846 8270E	3/24/25	3/26/25 16:56	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.5		15-110				3/26/25 16:56			



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

Project Location: Utica, NY Sample Description: Work Order: 25C1285

Date Received: 3/21/2025

Field Sample #: Field Blank Sampled: 3/20/2025 10:20

Sample ID: 25C1285-06

Sample Matrix: Field Blank

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	0.19	0.17	µg/L	1		SW-846 8270E	3/24/25	3/26/25 22:13	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.9		15-110				3/26/25 22:13			