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Subject: Periodic Review Report
Reporting Period – January 30, 2024 to January 30, 2025
Operable Unit No. 1
Former 3M/Dynacolor Facility, Site # 828066
Brockport (V), Monroe (C)

Dear Ms. Mumbroe,

On behalf of 3M Company, Arcadis of New York, Inc. is submitting this Periodic Review Report for Operable Unit No. 1 for the Former 3M/Dynacolor Facility in Brockport, New York.

If you have any questions about this report, please contact me at 732.661.3816.

Sincerely,
Arcadis of New York, Inc.



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3M Company

Periodic Review Report

Former 3M/Dynacolor Facility

Operable Unit No. 1

Brockport, Monroe County, New York

Site #828066

February 2024

Periodic Review Report
Former 3M/Dynacolor Facility
Brockport, New York

Periodic Review Report

Former 3M/Dynacolor Facility
Operable Unit No. 1
Brockport, Monroe County, New York
Site #828066

February 2024

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Acronyms and Abbreviations

µg/L	microgram per liter
1,1-DCA	1,1-dichloroethane
1,1,1-TCA	1,1,1-trichloroethane
3M	3M Company
Arcadis	Arcadis of New York, Inc.
btoc	below top of casing
cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
ERD	enhanced reductive dechlorination
Eurofins	Eurofins TestAmerica Laboratories, Inc.
EVO	emulsified vegetable oil
GE	General Electric
GWQS	Groundwater Quality Standard
IC/EC	institutional control/environmental control
mg/L	milligram per liter
MNA	monitored natural attenuation
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
ORP	oxidation-reduction potential
OU-1	Operable Unit No. 1
PFAS	per- and polyfluoroalkyl substances
PRR	Periodic Review Report
QA/QC	quality assurance/quality control
ROD	Record of Decision
RPR	Remedial Progress Report
Site	former 3M Company/Dynacolor facility located in Brockport, New York
SMP	Site Management Plan
TCE	trichloroethene
TOC	total organic carbon
USEPA	United States Environmental Protection Agency

Periodic Review Report
Former 3M/Dynacolor Facility
Brockport, New York

VOC volatile organic compound

Executive Summary

During the Periodic Review Report reporting period (January 30, 2024, to January 30, 2025), a site inspection and site-wide groundwater monitoring were conducted at the former 3M/Dynacolor facility located in Brockport, New York. The site inspection was conducted by a New York State-licensed professional engineer in September 2024. Results of the inspection confirmed that the institutional/engineering controls are effective and compliant.

The remedial program for soil and groundwater is performing effectively to achieve remedial objectives outlined in the site Record of Decision (ROD). In March and September 2024, groundwater samples were collected and analyzed for volatile organic compounds, total organic carbon, dissolved gases, and total cyanide at select onsite and offsite groundwater monitoring wells. The data is utilized to monitor the groundwater quality and evaluate effectiveness of the groundwater remedial action (i.e. emulsified vegetable oil injection) implemented both historically and recently in the vicinity of well AGM-1-OB. The monitoring results indicate that remedial actions are effectively reducing concentrations of contaminants of concern (1,1,1-trichloroethane and trichloroethene) in groundwater to below the New York State Department of Environmental Conservation groundwater quality standards. Both compounds remained at levels below the groundwater quality standards at most of the on- and offsite monitoring wells located outside the AGM-1-OB area. Slight exceedances were observed at AGM-2-OB for 1,1,1-trichloroethane and AGM-1-SB for trichloroethene. Consistent with historical observations, total cyanide was detected above the groundwater quality standards primarily at the shallow bedrock monitoring wells and exceedances were limited to the onsite monitoring points.

Groundwater samples were collected at 31 onsite and offsite wells to evaluate 1,4-dioxane concentrations during the September 2024 monitoring event. 1,4-Dioxane was detected above the February 2023 New York State Department of Environmental Conservation guidance value for groundwater at 17 of the 21 onsite monitoring wells and seven of the 11 offsite monitoring wells. A groundwater sample was not collected from offsite well MW99-H(S) because the well riser was damaged, and sample pump could not be installed. MW99-H(S) was subsequently repaired on October 28, 2024. 1,4-Dioxane concentrations in groundwater are generally higher in the shallow bedrock wells than in the overburden and intermediate bedrock wells.

In response to the lower guidance values for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) issued by NYSDEC in February 2023, per- and polyfluoroalkyl substances (PFAS) samples were re-collected in 2024 from the same four monitoring wells (AGM-1-OB, AGM-1-SB, AGM-3-OB, and AGM-5-OB) sampled in previous events. The results show that PFOA and PFOS concentrations at AGM-1-OB exceed the guidance values, while concentrations at AGM-1-SB remain below the thresholds. PFOS concentrations were found to exceed guidance values at AGM-3-OB and AGM-5-OB. To better understand the vertical and horizontal extent of PFAS at AGM-3-OB and AGM-5-OB, an expansion of the current PFAS sampling network is recommended.

Passive sampling for volatile organic compounds (VOCs), total cyanide, 1,4-dioxane, and PFAS was conducted in October 2024 at wells AGM-1-SB, AGM-3-SB, AGM-5-SB, AGM-8-OB, and MW99-J(S). A side-by-side evaluation of sampling results from passive sampling and the low-flow sampling from the September 2024 monitoring event was conducted. A threshold of $\leq 30\%$ was chosen as the acceptable Relative Percent Difference (RPD) value for this side-by-side evaluation. At AGM-1-SB, three of the seven detected VOCs compounds had RPD values below the thresholds. At AGM-3-SB, AGM-5-SB, and AGM-8-OB, two detected VOCs compounds showed RPD values above the thresholds. Furthermore, no VOCs were detected in either of the samples from MW99-J(S). PFOA is one of the three detected compounds with RPD values below the thresholds. Total cyanide and 1,4-dioxane had

RPD values below the thresholds. Additional sampling using both sampling methods followed by statistical analysis are recommended to verify the findings.

Activities recommended for the next reporting period (January 30, 2025, and January 30, 2026) include the following:

- Site-wide groundwater sampling, as part of the monitored natural attenuation program for VOCs, total organic carbon, and total cyanide, will continue for the purposes of evaluating the groundwater quality and remedy performance. Two site-wide groundwater monitoring events and one 1,4-dioxane sampling event will be conducted at select onsite and offsite monitoring wells.
- An annual site inspection will be performed to evaluate the institutional/engineering controls at the Site.
- An annual Periodic Review Report will be submitted in January 2026 to summarize the activities conducted during the next reporting period.
- Collection of groundwater samples for PFAS analysis at five onsite monitoring wells (AGM-1-OB, AGM-1-SB, AGM-3-OB, AGM-3-SB, AGM-5-OB) and three offsite monitoring wells (MW99-H(S), MW99-I(S) and MW99-J(S)) is proposed to be conducted in March 2025.
- An additional round of passive sampling will be conducted at the same five selected monitoring wells (AGM-1-SB, AGM-3-SB, AGM-5-SB, AGM-8-OB, and MW99-J(S)) to verify the findings from 2024. Passive sampling will be conducted in September 2025. DMPDB samplers will be deployed prior to the annual site-wide groundwater monitoring event (i.e., the low-flow sampling event) and will be retrieved on the same day that the low-flow sampling is conducted.

Recommendation for the January 30, 2026, to January 30, 2027 reporting period:

- Reduce the site-wide groundwater monitoring program frequency from semi-annual (March and September) to annual (Summer) in 2026. Historical analytical and groundwater gauging data indicate a minimal variance in groundwater concentrations and flow direction semi-annually, which supports the proposed reduction in sampling frequency at the Site.

1 Site Overview

On behalf of 3M Company (3M), Arcadis of New York, Inc. (Arcadis) has prepared this Periodic Review Report (PRR) for Operable Unit No. 1 (OU-1) of the former 3M/Dynacolor facility located in Brockport, New York (Site). This PRR summarizes the activities conducted between January 30, 2024, and January 30, 2025 (i.e., reporting period).

1.1 Site Summary and Remedial History

The Site is located in the Village of Brockport, Monroe County, New York. A site location map is shown on **Figure 1**. The Site is bordered on the west by Oxford Street, on the north by State Street, on the east by the JMT facility (formerly General Electric [GE]/Black and Decker), and on the south by the former location of Spring Street. Immediately north of State Street is the Erie Canal (New York State Barge Canal), flowing approximately west to east. The Site boundaries, existing features, former and existing building footprints, and known shallow historic fill are presented on **Figure 2**.

The area in and around the former 3M/Dynacolor facility has been the site of industrial activities for over 155 years. The Site and building were purchased by the Dynacolor Corporation in 1956. From 1956 to 1961, Dynacolor Corporation used the facility to process photographic film. 3M purchased the property in 1961 and continued to use the facility for photo processing until 1978, when 3M ceased operations at the Site. Buildings were demolished by 3M in 1979, and the area was covered, graded, reseeded, and maintained as a lawn. The property was donated to the Town of Sweden by 3M in 1985. In 1986, the Town of Sweden transferred ownership to Brockport Cold Storage, which constructed a frozen-food processing building on the approximate footprint of the former 3M/Dynacolor plant building. The Site is currently owned and operated by Nortera Foods USA, Inc. (formerly known as BONDUELLE USA Inc.) with the exception of the former residential properties east of Oxford Street and former Boy Scout Cabin property along State Street, which are owned by 3M.

The Site was listed as a Class 2a site in the New York State Department of Environmental Conservation (NYSDEC) Registry of Inactive Hazardous Disposal sites with the discovery of soil and groundwater impacts in 1986. NYSDEC and 3M entered into a Consent Order Agreement in 1998, and a Remedial Investigation was completed in 1999. Extensive remedial investigations, including collection of numerous soil and groundwater samples, have been performed to characterize the nature and extent of impacts at the Site. As confirmed in the ROD issued by NYSDEC in March 2004, the constituents of concern (COCs) identified in soil include volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and cyanide. The COCs in groundwater include VOCs (1,1,1-trichloroethane [1,1,1-TCA], 1,1-dichloroethane [1,1-DCA], 1,1-dichloroethene, cis-1,2-dichloroethene [cis-1,2-DCE], trichloroethene [TCE], and vinyl chloride) and cyanide based on previous groundwater investigations.

1.2 Remedial Program

The NYSDEC issued a ROD for OU-1 in March 2004 and selected the following remedy:

- Carbohydrate injection to address VOCs in groundwater.
- Monitoring of cyanide degradation in groundwater.

- Institutional controls that will restrict the site's use to industrial/commercial to prevent residential/recreational exposure to residual contamination.
- Institutional controls to limit the use of groundwater to minimize the potential for exposure to contaminated groundwater.
- A Site Management Plan (SMP) that addresses excavation and soil handling in a way that minimizes exposure to contaminants present in the soil.

The ROD also outlines the remediation goals for the Site as follows:

- Eliminate or reduce exposures of persons, flora and fauna at or around the Site to cyanide, silver, and VOCs in soil and groundwater.
- Eliminate or reduce the release of contaminants from soil into groundwater that may create exceedances of groundwater standards.
- Eliminate or reduce the release of contaminants from subsurface soil into groundwater, indoor air, and ambient air through dissolution, soil vapor, wind borne dust, etc.
- Attain ambient groundwater quality standards, to the extent practicable, for cyanide and VOCs.

The remedy is being successfully implemented and remediation goals continue to be met. Removal of impacted soil, excavation of above- and below-grade structures, and building demolition occurred at the Site between 1972 and 2002 (ARCADIS G&M 2002). A SMP (ARCADIS G&M 2004) was prepared and submitted to the NYSDEC on October 28, 2004 to comply with requirements of the ROD (NYSDEC 2004).

A monitored natural attenuation (MNA) program is being implemented for cyanide in groundwater and enhanced reductive dechlorination (ERD) via carbohydrate injections was performed to remediate VOCs in groundwater. Carbohydrate injections to address VOCs in groundwater were implemented from August 2004 to August 2008. Supplemental carbohydrate injections were performed in 2011 and 2022 to address fluctuations of VOC concentrations in the vicinity of AGM-1-OB and within the overburden aquifer. The mass of VOCs and cyanide reduced significantly during the remediation period and a MNA program for VOCs was implemented at the conclusion of the initial one-year post-remedial period.

Details of the injection system and well abandonment are provided in the May 2011 Remedial Progress Report (RPR). Details of the July 2011 injection event and the performance monitoring program are provided in the January 2011 Pilot Test Work Plan (Arcadis U.S., Inc. 2011) and April and August 2012 RPRs. The supplemental injection activities are summarized in the January 2023 RPR (Arcadis 2023). The existing groundwater monitoring program serves as the post-emulsified vegetable oil (EVO) injection performance monitoring, and the results are discussed in this PRR.

1.3 Compliance

This PRR summarizes compliance to the SMP for the properties currently owned by 3M (i.e., former residential properties and Boy Scout Cabin) and a summary of groundwater remediation activities at the Site.

There was/is no issues of non-compliance for the groundwater remediation activities and SMP for the 3M properties. As such, no corrective actions or steps are proposed or necessary.

1.4 Recommendations

No changes to the SMP are recommended. Annual submission of a PRR is required.

2 Remedial System Performance Evaluation

The remedial program for soil and groundwater is performing effectively to achieve remedial objectives outlined in the ROD. Carbohydrate injection was initiated in August 2004 and terminated in August 2008. A total of 50 injection events were performed at the Site. Based on the data from the annual groundwater monitoring event in July 2010, 1,1,1-TCA mass was reduced by approximately 99% and TCE mass was reduced by approximately 93%. These results indicate that the groundwater remediation system has operated efficiently.

Due to elevated concentrations of VOCs remaining at monitoring well AGM-1-OB, a pilot test using EVO as an alternate carbohydrate substrate was performed during July 2011 to further remediate the residual impacts within the area. A one-year performance monitoring program was conducted as part of the existing site-wide groundwater monitoring program to evaluate the performance and effectiveness of the pilot test. The groundwater monitoring results from January 2013 to September 2019 indicated that no 1,1,1-TCA and TCE were observed in AGM-1-OB, as well as the other overburden monitoring wells, except AGM-2-OB and AGM-3-OB. A trace level of 1,1,1-TCA was observed at AGM-2-OB in September 2016 and at AGM-3-OB in March 2018. The pilot test using EVO was effectively reducing 1,1,1-TCA and TCE concentrations in overburden groundwater, given that significant reduction of 1,1,1-TCA and TCE was observed in overburden wells.

Analytical results obtained from the May 2020 through September 2022 groundwater sampling events indicated a rebound of 1,1,1-TCA and TCE concentrations in groundwater at AGM-1-OB. In addition, a trace level of 1,1,1-TCA was observed at AGM-3-OB in May 2020. Trace levels of 1,1,1-TCA and TCE were also observed in shallow bedrock wells AGM-7-SB and AGM-1-SB, respectively. Due to rebound of 1,1,1-TCA and TCE concentrations in AGM-1-OB, EVO injection was conducted near AGM-1-OB in November 2022 to further remediate the residual impacts. This supplemental remedy was selected based on effectiveness of the July 2011 EVO injections at reducing concentrations of 1,1,1-TCA and TCE in Site groundwater. The injection activities are summarized in the January 2023 RPR (Arcadis 2023). The September 2022 annual groundwater sampling event analytical results served as baseline data for the EVO injection. The existing groundwater monitoring program will also serve as the post-EVO injection performance monitoring program.

Historically, cyanide impacts were observed in overburden and shallow bedrock groundwater. The lateral extent of cyanide impacts in both overburden and shallow bedrock units have reduced in size since the August 2004 baseline sampling event. Cyanide impacts were also historically observed in two intermediate monitoring wells. The September 2024 analytical results indicate that cyanide concentrations have stabilized in shallow bedrock groundwater throughout much of the Site.

VOCs and total cyanide data obtained from the March and September 2024 groundwater sampling events are discussed in Section 5.2. The remedial system performance evaluation is also discussed in Section 5.2.

3 Institutional/Engineering Controls Plan Compliance Report

Since the submission of the SMP (Arcadis G&M 2004), no soil excavation activities have been conducted at the 3M property. A site inspection conducted on September 24, 2024, by Moh Mohiuddin, a New York State-licensed professional engineer, confirmed that the institutional controls/engineering controls (IC/EC) are in compliance. The IC/EC certification is attached in **Appendix A**.

4 Monitoring Plan Compliance Report

Site-wide groundwater monitoring has been conducted since initiation of the remedial system operation in 2004. The purpose of the site-wide groundwater monitoring program is to evaluate the performance and the long-term effectiveness of the ERD system and the distribution of VOCs and cyanide impacts in Site groundwater. It is also used to evaluate the performance of the 2011 and 2022 EVO injections conducted near AGM-1-OB. Components of the site-wide groundwater monitoring program, as part of the MNA program, performed after the decommission of the remedial system in 2010, have been summarized in site RPRs submitted between May 2011 and January 2023 and the PRR submitted in February 2024. Continued reporting of the site-wide monitoring program will be included in this and future PRRs.

4.1 2024 Monitoring Program

4.1.1 Site-Wide Groundwater Monitoring

During the PRR reporting period (i.e., January 30, 2024, to January 30, 2025), site-wide groundwater monitoring was conducted in accordance with the PRR submitted in February 2024 (Arcadis 2024). Water levels were measured at 49 onsite and offsite monitoring wells during the March and September 2024 groundwater sampling events. Water level was gauged at each monitoring well before sample collection. Onsite and offsite monitoring wells were sampled for VOCs, total organic carbon (TOC), and total cyanide. 1,4-dioxane was monitored at selected on-site and off-site wells during the September 2024 sampling event. Per- and polyfluoroalkyl substances (PFAS) samples were voluntarily collected at select onsite monitoring wells in March and September 2024.

Groundwater samples were collected from 12 monitoring wells during the March 2024 semi-annual sampling event and from 42 wells during the September 2024 annual sampling event. Samples were collected in accordance with United States Environmental Protection Agency (USEPA) low-flow methodology. Water quality parameters, including temperature, pH, oxidation-reduction potential (ORP), specific conductivity, turbidity, and dissolved oxygen were measured while purging and immediately before sample collection. All samples and field quality assurance/quality control (QA/QC) samples (field blanks, equipment blanks, and trip blanks) were submitted to Eurofins TestAmerica Laboratories, Inc. (Eurofins), an NYSDEC-certified laboratory located in Buffalo, New York, for laboratory analysis. In accordance with the 2024 groundwater monitoring schedule approved by the NYSDEC on August 15, 2024, groundwater samples were analyzed for VOCs by USEPA Method 8260, TOC by USEPA Method 5310C, and total cyanide by USEPA Method 9012B. Five samples from select monitoring wells (AGM-1-OB, AGM-1-SB, AGM-3-OB, AGM-7-OB, and AGM-8-OB) were submitted for

TOC analysis during each event. In addition, nine samples collected from select monitoring wells were analyzed for total cyanide during the September 2024 event. Groundwater samples were also analyzed for 1,4-dioxane by USEPA Method 8270D SIM at 31 wells during the September 2024 event. A groundwater sample was not obtained from MW99-H(S) during the September 2024 event because damage to the top of the well riser prevented the installation of the sampling pump. The 2024 groundwater monitoring program is summarized in **Table 1**.

As proposed in the February 2024 PRR and approved by NYSDEC in an email dated August 15, 2024, overburden monitoring well GW-1S was decommissioned on October 28, 2024, by a New York State licensed driller. The well was grouted in place and the well construction materials were removed to a depth of five feet below ground surface. The monitoring well decommissioning record is provided in **Appendix B**. Additionally, monitoring well MW99-H(S) was repaired on October 28, 2024. The damaged portion of the well riser and the surface completion (flush-mount curb box and concrete skirt) were removed and replaced. Well construction materials from both locations were disposed of by the driller as general construction and debris.

4.1.2 Soil Gas/Vapor Monitoring

Field vapor monitoring was conducted at seven vapor monitoring points (VMP-3 through VMP-5 and VMP-8 through VMP-11) during the March and September 2024 sampling events. A combination meter was used to monitor the presence of flammable/explosive gases, including hydrogen sulfide, carbon monoxide, oxygen, and methane. The presence of organic vapors was monitored using a photoionization detector. Headspace readings were also collected from monitoring wells during each event.

4.1.3 Post-EVO Injection Performance Monitoring

The existing site-wide groundwater monitoring program also serves as the post-2022 EVO injection monitoring program. In accordance with the existing groundwater monitoring program, groundwater samples were collected from monitoring wells AGM-1-OB, AGM-1-SB, AGM-3-OB, AGM-7-OB, AGM-8-OB in March and September 2024. Purge water from these monitoring wells was monitored for field parameters (e.g., dissolved oxygen, pH, redox), and collected samples were analyzed for VOCs and TOC. In addition, a dissolved gases (methane, ethane, and ethene) sample was collected from AGM-1-OB. The dissolved gases sample was submitted to Pace Analytical Services, LLC, an NYSDEC-certified laboratory located in Melville, New York, for laboratory analysis of dissolved gases using Method RSK-175.

4.1.4 Per-and Polyfluoroalkyl Substances Sampling

PFAS sampling was conducted at four onsite monitoring wells (AGM-1-OB, AGM-1-SB, AGM-3-OB, and AGM-5-OB) in 2020 and 2021. PFAS compounds were detected above laboratory reporting limit in four wells however no detections were present above previously established guidance values. The data indicated that PFAS compounds are not considered as potential COCs in site groundwater. No further assessment of PFAS in site groundwater was recommended at that time.

Given that the NYSDEC reduced guidance values in February 2023, PFAS samples were re-collected from the same four monitoring wells during the March 2024 monitoring event. To verify the results, additional PFAS samples were taken from these wells during the September 2024 monitoring event. Groundwater samples were collected using low-flow sampling methods. In accordance with NYSDEC's PFAS guidance document, "Sampling,

Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS), Under NYSDEC's Part 375 Remedial Programs, April 2023" (NYSDEC 2023), each groundwater sample was analyzed for 40 PFAS compounds listed in the document using USEPA Draft Method 1633. USEPA Method 1633 was finalized in January 2024. The PFAS samples were analyzed at Eurofins laboratory located in Lancaster, Pennsylvania (NY Lab ID No: 10670). Eurofins Lancaster laboratory is certified to analyze for/report all PFAS compounds currently certifiable (i.e., 26 PFAS compounds) in accordance with the New York State Department of Health.

Field QA/QC samples collected during each event included equipment blanks, field blanks, trip blanks, a field duplicate sample, and a matrix spike and matrix spike duplicate sample. Laboratory provided deionized water used for collection of "Blank" samples was certified as PFAS-free. All QA/QC samples were analyzed for PFAS.

To ensure quality and reduce potential cross-contamination of groundwater samples analyzed for PFAS, field sampling personnel implemented practical and appropriate precautions to utilize PFAS free sampling equipment and supplies and avoid items potentially containing PFAS. These items include, but are not limited to, Teflon™ tubing or plastic pump bladders, string, waterproof field notebooks, clothing, or tents, personal protective equipment, personal care products, and food packaging. The NYSDEC PFAS guidance document (NYSDEC 2023) was followed for PFAS sampling. Additionally, since samples for VOCs, TOC, total cyanide, 1,4-dioxane, and PFAS were collected, PFAS sampling was conducted first at the four selected wells. This was followed by the collection of VOCs and the remaining constituents to minimize the risk of potential PFAS cross-contamination.

4.2 Evaluation of Monitoring Results

4.2.1 Site-Wide Groundwater Monitoring

Site-wide groundwater monitoring was conducted in March and September 2024. Results of groundwater elevations derived from gauging data are summarized in **Table 2**. Analytical results for VOCs, total cyanide, and TOC are summarized in **Tables 3 through 6**. Historical target VOCs and cyanide results are included in **Table 7**. Analytical results for 1,4-dioxane are summarized in **Table 8** and historical 1,4-dioxane results are provided in **Table 9**. Laboratory analytical reports are provided in **Appendix C**. Electronic data deliverables will be submitted through the NYSDEC EQUIS Data Processor. All analytical results were reviewed in accordance with the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate). A copy of Data Usability Summary Reports is provided in **Appendix D**.

4.2.1.1 Groundwater Elevation

In March 2024, depth to groundwater ranged from 0.71 to 12.56 feet below top of casing (btoc) for overburden monitoring wells, 1.68 to 15.97 feet btoc for shallow bedrock monitoring wells, and 3.38 to 20.94 feet btoc for intermediate bedrock monitoring wells. In September 2024, depth to groundwater ranged from 1.95 to 13.31 feet btoc for overburden monitoring wells, 0.20 to 15.19 feet btoc for shallow bedrock monitoring wells, and 4.19 to 19.48 feet btoc for intermediate bedrock monitoring wells.

The groundwater elevations and corresponding groundwater flow maps for overburden, shallow bedrock, and intermediate bedrock hydrogeologic units are presented on **Figures 3 and 4** for the March and September 2024 events, respectively. Groundwater elevations in all three hydrogeologic zones remain consistent. Groundwater at

the Site typically flows to the northwest in all three hydrogeologic units and is consistent with historical hydrogeologic data.

4.2.1.2 Volatile Organic Compounds

Findings from the analytical results of the March and September 2024 sampling events are as follows:

- At overburden well AGM-1-OB, 1,1,1-TCA and TCE were not detected above the laboratory reporting limit of 10 micrograms per liter ($\mu\text{g/L}$) (reporting limit elevated due to sample dilution) in March and September 2024.
- At shallow bedrock well AGM-1-SB, 1,1,1-TCA was not detected above the laboratory reporting limit during the sampling events conducted in March and September 2024. TCE was detected below the NYSDEC groundwater quality standard (GWQS) of 5 $\mu\text{g/L}$ in March 2024 (3.7 $\mu\text{g/L}$) and was detected slightly above the GWQS in September 2024 (6.1 $\mu\text{g/L}$).
- At overburden well AGM-2-OB, 1,1,1-TCA was detected above the GWQS of 5 $\mu\text{g/L}$ in September 2024 (9.1 $\mu\text{g/L}$).
- At the remaining wells, 1,1,1-TCA and TCE concentrations were below laboratory reporting limits in both March and September 2024 sampling events.
- As the reductive dechlorination process continues following the November 2022 EVO injection event, concentrations of 1,1,1-TCA daughter products (1,1-DCA and chloroethane) and TCE daughter products (cis-1,2-DCE and vinyl chloride) are expected to fluctuate and may increase before decreasing.
 - At overburden well AGM-1-OB, 1,1-DCA was detected at 930 $\mu\text{g/L}$ in March 2023, and remained below the reporting limit of 50 or 10 $\mu\text{g/L}$ from September 2023 to September 2024. Chloroethane was detected at 1,600 $\mu\text{g/L}$ in March 2023, 2,000 $\mu\text{g/L}$ in September 2023, 840 $\mu\text{g/L}$ in March 2024, and 2,400 $\mu\text{g/L}$ in September 2024. A steady increase in chloroethane concentrations indicates continuous degradation of 1,1,1-TCA and 1,1-DCA in groundwater in the vicinity of AGM-1-OB. Cis-1,2-DCE and vinyl chloride were detected below the laboratory reporting limit of 50 $\mu\text{g/L}$ in March and September 2023 or 10 $\mu\text{g/L}$ in March and September 2024 in AGM-1-OB.
- 1,1-DCA and chloroethane were detected above the NYSDEC GWQS at several overburden and shallow bedrock wells downgradient and adjacent to the November 2022 EVO injection treatment area during the March 2024 and September 2024 monitoring events. The increased concentrations are attributed to the breakdown of 1,1,1-TCA.
- Cis-1,2-DCE and/or vinyl chloride were detected above the NYSDEC GWQS in six shallow bedrock monitoring wells [AGM-1-SB, AGM-2-SB, AGM-4-SB, AGM-5-SB, AGM-8-SB, and MW99-F(I)] during both sampling events. The increased concentrations are attributed to the breakdown of TCE.

Analytical results for VOCs from the March and September 2024 sampling events are summarized in **Tables 3 and 5**, respectively. Historical target VOCs results are summarized in **Table 7**. VOCs distribution in groundwater is presented on **Figure 5**. The site COC concentration trends are presented in **Appendix E**.

4.2.1.3 Total Organic Carbon

TOC monitoring was conducted in March and September 2024 at select wells to verify that a sufficient concentration of organic carbon is maintained (i.e., greater than 20 milligrams per liter [mg/L] in monitoring wells) within the target treatment area of the Site (i.e. near AGM-1-OB).

TOC levels have increased significantly near AGM-1-OB following the 2022 EVO injection event. The increased TOC levels indicate that an in-situ reactive zone has been created near AGM-1-OB to provide adequate enhancement to the naturally occurring biodegradation processes. TOC levels were observed above 20 mg/L at AGM-1-OB in March and September 2024. TOC levels at AGM-3-OB were below 20 mg/L in March 2024 and above 20 mg/L in September 2024. TOC data are summarized in **Tables 4 and 6**.

4.2.1.4 pH

Data from the March and September 2024 groundwater sampling events indicate that pH values are neutral in monitoring wells within the target remedial treatment area. Neutral pH values indicate that conditions are conducive to reductive dechlorination processes. The pH values from March and September 2024 sampling events are summarized in **Tables 4 and 6**, respectively.

4.2.1.5 Total Cyanide

The September 2024 data indicated that total cyanide concentrations ranged between 5.3 J µg/L at MW99-J(I) and 3,700 µg/L at AGM-7-SB. Cyanide was detected above the NYSDEC GWQS of 200 µg/L at five shallow bedrock monitoring wells (AGM-3-SB, AGM-4-SB, AGM6-SB, AGM-7-SB, and MW99-D(I)). Total cyanide was not detected above the NYSDEC GWQS at the overburden and intermediate bedrock monitoring wells. Total cyanide results from the September 2024 sampling event are summarized in **Table 5**. Distribution of cyanide in groundwater is shown on **Figure 6**. Historical total cyanide analytical results are summarized in **Table 7**.

4.2.1.6 1,4-Dioxane

During the September 2024 event, 1,4-dioxane was detected above the NYSDEC guidance value of 0.35 µg/L at 24 of the 31 sampled onsite and offsite monitoring wells. Concentrations ranged between non-detect at monitoring wells AGM-1-IB, MW99-F(S), and GEB-30BS and 590 µg/L at monitoring well AGM-3-SB. 1,4-Dioxane results are summarized in **Table 8** and on **Figure 7**. Historical 1,4-dioxane results are provided in **Table 9**.

Onsite Monitoring Wells

- 1,4-Dioxane was detected above the NYSDEC guidance value for groundwater of 0.35 µg/L at 17 of 20 onsite monitoring wells sampled in September 2024.
- Concentrations of 1,4-dioxane in groundwater from shallow bedrock wells are greater than concentrations in groundwater from overburden and intermediate bedrock wells.
- The September 2024 analytical results are either similar to or below the concentrations reported in previous sampling events at most of the onsite monitoring wells.

Offsite Monitoring Wells

- Downgradient well cluster MW99-J (located north of the Site) - Groundwater sampled from intermediate bedrock well MW99-J(D) contained a 1,4-dioxane concentration (0.63 µg/L) slightly above the NYSDEC guidance value. 1,4-Dioxane was detected at the NYSDEC guidance value of 0.35 µg/L at shallow bedrock well MW99-J(I) and below the guidance level at overburden monitoring well MW99-J(S). 1,4-Dioxane concentrations are consistent with the historical data.
- Side-gradient well clusters MW99-H and MW99-I (located west of the Site and Oxford Street) - Groundwater sampled from MW99-H(I), MW99-H(D), MW99-I(S), and MW99-I(I) contained 1,4-dioxane above the

NYSDEC guidance value of 0.35 µg/L. The concentrations ranged between 6.3 µg/L at MW99-H(I) and 48 µg/L at MW99-H(I). Historical 1,4-dioxane concentrations ranged between 3.5 µg/L in September 2021 at MW99-H(D) and 50 µg/L during September 2023 event at MW99-I(I). 1,4-Dioxane at intermediate well MW99-I(D) was non-detect. Historical 1,4-dioxane concentrations ranged between 0.15 µg/L in September 2022 and 10 µg/L in September 2021 at this well.

- Side-gradient well cluster GEB-30 (located east of the Site) - Groundwater sampled from the intermediate bedrock well GEB-30BI contained 0.36 µg/L of 1,4-dioxane, which slightly exceeds the NYSDEC guidance value of 0.35 µg/L for groundwater. 1,4-Dioxane was non-detect at GEB-30S. Historical 1,4-dioxane concentrations ranged between below the laboratory reporting limit of 0.21 µg/L in September 2022 and 1.7 µg/L in September 2023 at GEB-30BS, and between below the laboratory reporting limit of 0.23 µg/L in September 2022 and 0.89 µg/L in September 2023 at GEB-30BI.

September 2024 data were used to generate 1,4-dioxane isoconcentration contours for each hydrogeologic zone. The isoconcentration contours are presented on **Figure 7**. Delineation of 1,4-dioxane compared to the February 2023 NYSDEC guidance value for groundwater is not complete north (downgradient) and east (side-gradient) of the Site. Delineation west of the Site (side-gradient, west of Oxford Street) was conducted by extrapolation as shown on **Figure 7**. The risk related to concentrations greater than the NYSDEC guidance value for groundwater remains low as groundwater in this area is not used for drinking purposes, and vapor intrusion of 1,4-dioxane is not an issue due to the limited potential for volatilization.

4.2.2 Soil Gas/Vapor Monitoring

The vapor monitoring network includes a total of seven vapor monitoring points VMP-3, VMP-4, VMP-5, and VMP-8 through VMP-11. The vapor monitoring results for the March and September 2024 sampling events are summarized in **Table 9**. Based on the field readings, no analytical samples for VOC analysis were collected during the sampling events.

Elevated methane concentrations were not detected at any vapor monitoring point in March or September 2024. To prevent the accumulation of excessive methane within the target treatment area, the vapor monitoring points were vented to a passive venting system. The passive venting system is still in operation.

4.2.3 Post-EVO Injection Performance Monitoring

To evaluate the effectiveness of the November 2022 EVO injection, groundwater samples were collected from monitoring wells AGM-1-OB, AGM-1-SB, AGM-3-OB, AGM-7-OB, and AGM-8-OB in March and September 2024. The VOC results indicated that the EVO injection has been effectively reducing the concentrations of 1,1,1-TCA and TCE at AGM-1-OB and AGM-1-SB. In addition, both 1,1,1-TCA and TCE concentrations remained below the NYSDEC GWQS at the remaining three monitoring wells following the EVO injection.

TOC levels (above 20 mg/L) indicated that an in-situ reactive zone has been created near AGM-1-OB and AGM-3-OB to provide adequate enhancement to the naturally occurring biodegradation processes.

The dissolved gases results showed an increase in ethane and ethene concentrations at AGM-1-OB following the November 2022 EVO injection. This indicates that complete dechlorination occurred in this area. In addition, methane concentrations increased since baseline sampling in September 2022 at AGM-1-OB. A strong reducing condition was established at this area, as indicated by production of methane by methanogenesis. The dissolved gases results are summarized in **Table 10**.

4.2.4 Per-and Polyfluoroalkyl Substances Sampling

NYSDEC adopted ambient water quality guidance values for PFOA and PFOS in February 2023. In accordance with the NYSDEC document “Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS), Under NYSDEC’s Part 375 Remedial Programs, April 2023”, groundwater samples for PFAS should be compared to the human health criteria of 6.7 nanograms per liter (ng/L) for PFOA and 2.7 ng/L for PFOS. Results from the March and September 2024 sampling events as well as the results from 2020 and 2021 sampling events are summarized in **Table 12**. PFOA and PFOS analytical results from October 2020 to September 2024 are shown on **Figure 8**. Laboratory analytical reports are provided in **Appendix C**. Electronic data deliverables will be submitted through the NYSDEC EQulS Data Processor. Data Usability Summary Reports are provided in **Appendix D**.

Findings from the analytical results of the March and September 2024 sampling events are as follows:

- PFOA was detected below the NYSDEC guidance value of 6.7 ng/L at all four wells sampled during the March 2024 event. During the September 2024 event, PFOA was detected above the NYSDEC guidance value only at the overburden monitoring well AGM-1-OB, while it was detected below the guidance value at the other three wells (AGM-1-SB, AGM-3-OB, and AGM-5-OB). PFOA concentrations ranged from 2.4 J ng/L at AGM-1-SB to 11 ng/L at AGM-1-OB in 2024.
- PFOS was detected above the NYSDEC guidance value of 2.7 ng/L at three of the four monitoring wells (AGM-1-OB, AGM-1-SB, and AGM-5-OB) in March 2024. During the September 2024 event, PFOS was detected above the NYSDEC guidance value at AGM-1-OB, AGM-3-OB, and AGM-5-OB, while it was not detected above the guidance value at AGM-1-SB. PFOS concentrations ranged from 2.1 J ng/L at AGM-1-SB to 13 ng/L at AGM-1-OB in 2024.
- In addition to PFOA and PFOS, approximately seven to 10 additional PFAS compounds were detected at each well during March and September 2024 sampling events. Most of these detections were either between the method detection limit and the reporting limit (“J flagged”) or just slightly above the laboratory reporting limit.
- Current and historical analytical data from these four wells indicate that higher PFOS and PFOA concentrations were observed at AGM-1-OB, while low PFOS and PFOA concentrations (below the guidance values) were detected at AGM-1-SB, the vertical well in the AGM-1 area. PFOS and PFOA concentrations at the downgradient overburden monitoring wells, AGM-3-OB and AGM-5-OB, were at similar levels to the previous results.

5 Operation and Maintenance Plan Compliance Report

An Operation and Maintenance (O&M) Plan for the groundwater remediation system was submitted to the NYSDEC in September 2006. Since the termination of the carbohydrate injection in August 2008, the O&M Plan is no longer applicable. No corrective action is recommended.

6 Passive Sampling Evaluation

The current sampling method for the site-wide groundwater monitoring is low-flow sampling methodology. 3M is considering transitioning from the current low-flow sampling method to passive sampling, as it is recognized as an efficient, cost-effective, and environmentally friendly approach for long-term groundwater monitoring. To assess the feasibility and applicability of passive sampling at the Site, 3M conducted a preliminary evaluation, including a side-by-side comparison of passive sampling and current sampling method, low-flow sampling, in September and October 2024.

6.1 Passive Sampler Selection

Several factors were considered in selecting the appropriate passive groundwater samplers for site-wide groundwater monitoring. These include:

1. Compatibility with the site's parameter list,
2. Ability to produce high-quality, representative data comparable to historical results, and
3. Regulatory acceptance by the NYSDEC.

After a preliminary desktop evaluation, the Dual-Membrane Passive Diffusion Sampler (DMPDB) from EON Products, Inc. was chosen for groundwater sampling based on the following considerations:

- **Material Compatibility:** The DMPDB sampler and its installation accessories are manufactured from materials free of PFAS (e.g., HDPE, polypropylene, and stainless steel), which are listed as acceptable for PFAS sampling.
- **Suitability for Target Analytes:** Technical papers, case studies, and field comparison data indicate that DMPDB samplers are suitable for sampling VOCs, 1,4-dioxane, and PFAS. However, it is noted that the available studies tested 28 PFAS analytes, whereas NYSDEC requires testing for 40 PFAS analytes. Additionally, based on the USGS's Passive Sampling of Groundwater Wells for Determination of Water Chemistry, dated 2020, DMPDB samplers can also collect TOC and dissolved gases. However, applicability for total cyanide sampling remains uncertain, as no relevant studies or comparison data are currently available. For evaluation purposes, it is assumed that DMPDB samplers can be used to collect all required analytes.
- **Well Construction Requirements:** The standard DMPDB sampler size is 1.75 inches in outer diameter (OD) and 28 inches in length. A minimum of six inches of saturated screen is required above the sampler when installed at the sampling interval. This means that the total minimum saturated screen length required is between 30 and 34 inches, with 36 inches used as a conservative assumption for evaluation. Based on the well construction details and historical saturated screen length data for site monitoring wells, the DMPDB samplers is suitable for installation in the majority of wells.
- **Sample Volume Capacity:** The site-wide groundwater monitoring program requires sample volumes ranging from 120 milliliters (mL) to 1320 mL per monitoring well. A standard DMPDB sampler can collect approximately 650 mL of water. For wells with a two-inch diameter and a five-foot saturated screen, over one liter of water can typically be yielded. For some site monitoring wells, multiple samplers will need to be installed within the five-foot saturated screen interval to meet the required sample volume. In a two-inch well, a maximum of two standard-size DMPDB samplers can be installed in series within a five-foot saturated screen interval.

- Proven use in New York State: DMPDB samplers have been successfully used by NYSDEC and USEPA Region 2 at several project sites in New York State.

6.2 Summary of Passive Sampling Activities

Passive sampling was conducted in October 2024 at five selected monitoring wells: AGM-1-SB, AGM-3-SB, AGM-5-SB, AGM-8-OB, and MW99-J(S). DMPDB samplers were deployed in these wells on October 2, 2024, and retrieved on October 28, 2024, following an approximate three-week deployment period. This duration ensured the samplers remained fully submerged in the saturated screen, as required for the DMPDB samplers. The appropriate deployment depth for the DMPDB samplers was determined based on the well construction details and the average length of the saturated screen interval.

After retrieval, groundwater from the samplers was transferred into sample bottles and submitted for laboratory analysis of VOCs, total cyanide, 1,4-dioxane, and/or PFAS. Groundwater quality parameters (specific conductance, pH, ORP, dissolved oxygen, turbidity, and temperature) and water levels were measured on the same days as DMPDB sampler deployment and retrieval.

Field QA/QC samples, including field blanks and equipment blanks, were collected using additional DMPDB samplers pre-filled with PFAS-free water supplied by the Eurofins laboratory. Samples of VOCs, total cyanide, and 1,4-dioxane were analyzed at the Eurofins laboratory in Buffalo, New York, while PFAS samples were analyzed at the Eurofins laboratory in Lancaster, Pennsylvania. The list of wells and parameters for passive sampling are provided in **Table 13**.

6.3 Passive Sampling and Low-Flow Sampling Results Evaluation

For the side-by-side evaluation of sampling results, low-flow sampling data from the September 2024 monitoring event was used. Analytical results from both low-flow sampling and passive sampling for wells AGM-1-SB, AGM-3-SB, AGM-5-SB, AGM-8-OB, and MW99-J(S) are summarized in **Table 14A** for VOCs, total cyanide, and 1,4-dioxane, and in **Table 14B** for PFAS. Laboratory analytical reports are provided in **Appendix C**. A copy of Data Usability Summary Reports is provided in **Appendix D**.

For the preliminary comparison evaluation, the Relative Percent Difference (RPD) was calculated only when the constituent was detected in both samples being compared. A threshold of $\leq 30\%$ was chosen as the acceptable RPD value for these side-by-side comparisons. Lower RPD values indicate greater similarity between the two data points. The RPD results are presented in **Tables 14A and 14B** and summarized below:

- VOCs: At AGM-1-SB, three of the seven detected compounds had RPD values below the thresholds. Meanwhile, at AGM-3-SB, AGM-5-SB, and AGM-8-OB, two detected compounds showed RPD values above the thresholds. Furthermore, no VOCs were detected in either of the samples from MW99-J(S).
- Total Cyanide and 1,4-Dioxane: These compounds had RPD values below the thresholds.
- PFAS Compounds: PFOA is one of the three detected compounds with RPD values below the thresholds.

Based on the preliminary evaluation results, additional sampling using both methods will be proposed to verify the findings.

7 Overall PRR Conclusions and Recommendations

7.1 Conclusions

The activities conducted between January 30, 2024, and January 30, 2025, indicate the following conclusions:

- All components of the SMP are compliant, and no corrective actions are required.
- The primary COCs, 1,1,1-TCA and TCE, were detected below the NYSDEC GWQS in most sampled wells during the September 2024 monitoring event. Slight exceedances were observed at AGM-2-OB for 1,1,1-TCA and AGM-1-SB for TCE.
- Total cyanide concentrations exceeded the NYSDEC GWQS only in the onsite shallow bedrock wells.
- The November 2022 EVO injection continues to be effectively in reducing 1,1,1-TCA and TCE concentrations in the AGM-1-OB area to below the NYSDEC GWQS.
- The remedial program for groundwater is performing effectively to achieve remedial objectives identified in the ROD.
- 1,4-Dioxane was detected above the February 2023 NYSDEC guidance value of 0.35 µg/L for groundwater at 17 of the 20 onsite monitoring wells sampled during the September 2024 monitoring event. Groundwater concentrations of 1,4-dioxane were generally higher in shallow bedrock wells compared to overburden and intermediate bedrock wells. 1,4-Dioxane concentrations above the NYSDEC guidance value were observed in 7 of 10 offsite and side-gradient well clusters (MW99-H, MW99-I, MW99-J, and GEB-30).
- 1,4-Dioxane is the only constituent with concentrations exceeding the NYSDEC guidance value in offsite wells.
- PFAS results indicate that PFOA and PFOS concentrations at AGM-1-OB exceed the February 2023 NYSDEC guidance values, while concentrations at AGM-1-SB remain below guidance thresholds.
- PFOS concentrations exceeded guidance values at AGM-3-OB and AGM-5-OB. Expansion of the current PFAS sampling network is required to further evaluate the vertical and horizontal extent of PFAS observed at AGM-3-OB and AGM-5-OB.

7.2 Recommendations

The historical data and 2024 data collected at the Site were reviewed and evaluated to determine whether the current sampling network is adequate for monitoring the remaining site COCs. Recommendations for the next reporting period (i.e. January 30, 2025, to January 30, 2026) include the following activities.

7.2.1 Site-Wide Groundwater Monitoring Program

As part of the MNA program for VOCs, site-wide groundwater sampling will be conducted twice in 2025, with semi-annual monitoring scheduled for March and annual monitoring in September. This sampling will evaluate both onsite and offsite groundwater quality as well as the effectiveness of the November 2022 EVO injection conducted near AGM-1-OB. The current sampling network for VOCs is sufficient to monitor and delineate groundwater quality, and no additional wells will be added to the network.

Annual sampling of total cyanide will continue as part of the MNA program in 2025. The total cyanide data was reviewed to evaluate if the current sampling network for total cyanide is sufficient. Both AGM-5-SB and MW99-D(I) are used as the downgradient wells for onsite monitoring/delineation. In September 2024, total cyanide at AGM-5-SB was below the NYSDEC GWQS. However, MW99-D(I), located downgradient from AGM-5-SB, contained total cyanide slightly above the NYSDEC GWQS. The shallow bedrock groundwater flows towards MW99-I(I) and MW99-J(I). For offsite monitoring and delineation purposes, MW99-I(I) will be added to the 2025 sampling program, while MW99-J(I) is already part of the sampling program and has consistently shown total cyanide levels below the NYSDEC GWQS.

To evaluate the effectiveness of the November 2022 EVO injection, TOC samples will continue to be collected semi-annually at select monitoring wells. Additionally, samples of dissolved gases (ethene, ethane, and methane) will be collected at AGM-1-OB semi-annually. The proposed groundwater monitoring program for 2025 is summarized in **Table 15** and on **Figure 9** (Proposed VOCs Sampling Plan) and **Figure 10** (Proposed Cyanide Sampling Plan).

Sampling for 1,4-dioxane will continue to be conducted annually at select onsite and offsite monitoring wells, with the next sampling event scheduled for September 2025. The current sampling network is sufficient to monitor and delineate groundwater quality for 1,4-dioxane. The proposed sampling locations are provided in **Table 15** and on **Figure 11** (Proposed 1,4-Dioxane Sampling Plan).

Field vapor monitoring will also be conducted from the existing vapor monitoring points (VMP-3 through VMP-5, and VMP-8 to VMP-11) during each groundwater sampling event in 2025. These data will be used to evaluate the generation of the gaseous byproducts (e.g., methane and hydrogen sulfide) during anaerobic biodegradation following the EVO injections in November 2022.

For the reporting period from January 31, 2026, to January 31, 2027, 3M proposes reducing the site-wide groundwater monitoring program frequency from semi-annual (March and September) to annual (Summer). This recommendation is based on an evaluation of historical and recent VOC concentrations, which show minimal variance between March and September sampling events. This supports the proposed reduction in sampling frequency. TOC sampling frequency will also be reduced to annually to confirm that sufficient organic carbon concentrations are being maintained within the target treatment area (near AGM-1-OB). Results of dissolved gases from the 2023 and 2024 sampling events indicate that complete dechlorination has occurred, and a strong reducing condition has been established in the AGM-1-OB area following the November 2022 EVO injection. As a result, sampling for dissolved gases (ethene, ethane, and methane) will no longer be required in future monitoring events. Field vapor monitoring will also transition to an annual schedule.

7.2.2 Per-and Polyfluoroalkyl Substances Sampling

Based on the PFAS sampling results obtained during the March and September 2024 sampling events, 3M proposes expanding the PFAS sampling network and conducting annual sampling in March 2025. In addition to the four onsite monitoring wells sampled in 2024 (AGM-1-OB, AGM-1-SB, AGM-3-OB, and AGM-5-OB), the expanded network will include:

- Three offsite overburden monitoring wells: MW99-H(S), MW99-I(S), and MW99-J(S).
- One shallow bedrock monitoring well: AGM-3-SB.

Groundwater samples will be collected using the low-flow sampling method. Field parameters (specific conductance, pH, ORP, dissolved oxygen, turbidity, and temperature) and water levels will be measured at each

monitoring well during the sampling. In accordance with the NYSDEC's guidance document (NYSDEC 2023), each groundwater sample will be analyzed for 40 PFAS compounds listed in the document using USEPA Draft Method 1633. The USEPA Method 1633 was finalized in January 2024. The PFAS samples will be analyzed at Eurofins laboratory located in Lancaster, Pennsylvania (NY Lab ID No: 10670). Eurofins Lancaster laboratory is certified to analyze for/report all PFAS compounds currently certifiable (i.e., 26 PFAS compounds) in accordance with the New York State Department of Health. The proposed sampling locations are provided in **Table 15** and on **Figure 12** (Proposed PFAS Sampling Plan).

The field QA/QC samples will include equipment blank, field blank, trip blank, field duplicate sample, and matrix spike and matrix spike duplicate sample. Blank water to be provided by the laboratory will be certified as PFAS-free. All QA/QC samples will be analyzed for PFAS.

As summarized in Section 4.1.4, field sampling personnel will take practical and appropriate precautions to avoid items that are likely to contain PFAS during sampling at the Site. The NYSDEC's PFAS guidance document (NYSDEC 2023), will be followed for PFAS sampling. Given that VOCs and PFAS samples will be collected during the event, PFAS samples will be collected first, followed by VOCs and TOC samples to avoid potential PFAS cross-contamination.

7.2.3 Passive Sampling Evaluation

Based on the comparison of analytical results between the passive sampling method and low-flow sampling method, 3M proposes conducting an additional round of passive sampling in 2025. The purpose of this sampling is to verify the findings from 2024. Passive sampling will be conducted at the same five selected monitoring wells (AGM-1-SB, AGM-3-SB, AGM-5-SB, AGM-8-OB, and MW99-J(S)) in September 2025.

DMPDB samplers will be deployed at these wells prior to the annual site-wide groundwater monitoring event (i.e., the low-flow sampling event) and retrieved after a minimum three-week deployment period in accordance with the manufacturer's specifications. DMPDB samplers will be retrieved on the same day that the low-flow sampling is conducted. The deployment depth for the DMPDB samplers will be determined based on the construction details of each well and the average length of the saturated screen interval measured in 2024. Upon retrieval, groundwater from the samplers will be transferred directly into sample bottles and submitted for laboratory analysis of VOCs, total cyanide, 1,4-dioxane, and/or PFAS. Groundwater quality parameters (specific conductance, pH, ORP, dissolved oxygen, turbidity, and temperature) and water levels will be measured on the same days as DMPDB sampler deployment and retrieval.

Field QA/QC samples, including trip blanks, field blanks and equipment blanks, will be collected using additional DMPDB samplers pre-filled with PFAS-free water supplied by the Eurofins laboratory or the manufacturer. VOCs, total cyanide, and 1,4-dioxane samples will be analyzed at the Eurofins laboratory in Buffalo, New York, while PFAS samples will be analyzed at the Eurofins laboratory in Lancaster, Pennsylvania.

To assess whether the passive sampling method using DMPDB samplers is a viable alternative to low-flow sampling, results from the 2024 and 2025 low-flow and passive sampling events at the five selected wells will be compared using appropriate statistical methods. These methods will evaluate the representativeness and compatibility of the data and may include correlation acceptance criteria (e.g., relative percent difference), XY plots with correlation coefficients, graphical comparisons, or other statistical approaches.

If 3M proposes transitioning from the current low-flow sampling method to passive sampling for site-wide groundwater monitoring, a Sampling and Analysis Plan will be prepared and submitted to the NYSDEC for review

and approval. This plan will include evidence supporting the viability of passive sampling technologies in compliance with NYSDEC guidance and regulations, an evaluation of the passive sampling technique, and its applicability to the site. It will also present the results of the side-by-side comparison study from 2024 and 2025 to demonstrate the comparability of passive sampling results to those of low-flow sampling. If no change to the current sampling method is proposed, 3M will document its findings in the next PRR.

7.2.4 Reporting Schedule

The PRR for the reporting period of January 30, 2025, to January 30, 2026, will be submitted to the NYSDEC by March 1, 2026.

8 References

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Periodic Review Report
Former 3M/Dynacolor Facility
Brockport, New York

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

NYSDEC. 2024. Summary of Open Requests- Operable Unit No. 1, Former 3M/Dynacolor Facility, Brockport,
Monroe County, New York. February.

Tables

Table 1
2024 Groundwater Monitoring Schedule
Former 3M/Dynacolor Facility
Brockport, New York



Semi-annual Groundwater Monitoring

Groundwater Monitoring Schedule March 2024			
VOCs Field Parameters	TOC	Dissolved Gases	PFAS
AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
AGM-1-SB	AGM-1-SB		AGM-1-SB
AGM-3-OB	AGM-3-OB		AGM-3-OB
AGM-3-SB	AGM-7-OB		AGM-5-OB
AGM-5-SB	AGM-8-OB		
AGM-6-SB			
AGM-7-OB			
AGM-7-SB			
AGM-8-OB			
AGM-8-SB			
MW99-G(S)			
MW99-H(I)			

Annual Groundwater Monitoring

Groundwater Monitoring Schedule September 2024					
VOCs Field Parameters	Total Cyanide	TOC	Dissolved Gases	PFAS	1,4-Dioxane
AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
AGM-1-SB	AGM-3-SB	AGM-1-SB		AGM-1-SB	AGM-1-SB
AGM-2-OB	AGM-4-SB	AGM-3-OB		AGM-3-OB	AGM-1-IB
AGM-2-SB	AGM-5-SB	AGM-7-OB		AGM-5-OB	AGM-2-OB
AGM-3-OB	AGM-6-SB	AGM-8-OB			AGM-2-SB
AGM-3-SB	AGM-7-OB				AGM-2-IB
AGM-3-IB	AGM-7-SB				AGM-3-OB
AGM-4-OB	MW99-D(I)				AGM-3-SB
AGM-4-SB	MW99-J(I)				AGM-3-IB
AGM-5-OB					AGM-4-OB
AGM-5-SB					AGM-4-IB
AGM-6-SB					AGM-5-OB
AGM-7-OB					AGM-5-SB
AGM-7-SB					MW99-C(S)
AGM-8-OB					MW99-C(I)
AGM-8-SB					MW99-F(S)
MW99-C(S)					MW99-F(I)
MW99-C(I)					MW99-F(D)
MW99-D(I)					MW99-H(S)
MW99-F(I)					MW99-H(I)
MW99-F(D)					MW99-H(D)
MW99-G(S)					MW99-I(S)
MW99-G(I)					MW99-I(I)
MW99-G(D)					MW99-I(D)
MW99-H(S)					MW99-J(S)
MW99-H(I)					MW99-J(I)
MW99-H(D)					MW99-J(D)
MW99-I(S)					GEB-28BS
MW99-I(I)					GEB-28BI
MW99-J(S)					GEB-28BD
MW99-J(I)					GEB-30BS
					GEB-30BI

Notes:

PFAS = Per- and Polyfluoroalkyl Substances

TOC = Total Organic Carbon

VOCs = Volatile Organic Compounds

Field parameters for groundwater include pH, specific conductivity, temperature, turbidity, dissolved oxygen, and redox potential.

Dissolved gases include methane, ethane, and ethene.

Table 2
Summary of Groundwater Elevations, March and September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Well I.D.	Top of Casing Elevation (ft above MSL)	Well Diameter	Well Material	March 2024		September 2024	
				Groundwater Level Measurement (ft below TOC)	Groundwater Elevation (ft above MSL)	Groundwater Level Measurement (ft below TOC)	Groundwater Elevation (ft above MSL)
AGM-1-OB ¹	525.95	2-inch	PVC	3.39	522.56	4.10	521.85
AGM-1-SB	525.15	2-inch	PVC	14.36	510.79	13.20	511.95
AGM-1-IB	525.33	2-inch	PVC	19.86	505.47	19.48	505.85
AGM-2-OB	524.38	2-inch	PVC	7.87	516.51	6.17	518.21
AGM-2-SB	524.25	2-inch	PVC	15.97	508.28	15.19	509.06
AGM-2-IB	524.03	2-inch	PVC	20.94	503.09	18.04	505.99
AGM-3-OB	522.01	2-inch	PVC	3.32	518.69	7.09	514.92
AGM-3-SB	522.10	2-inch	PVC	8.00	514.10	10.40	511.70
AGM-3-IB	522.13	2-inch	PVC	16.46	505.67	15.15	506.98
AGM-4-OB	522.06	2-inch	PVC	1.03	521.03	1.95	520.11
AGM-4-SB	521.79	2-inch	PVC	2.36	519.43	0.20	521.59
AGM-4-IB	521.89	2-inch	PVC	15.60	506.29	15.93	505.96
AGM-5-OB	512.04	2-inch	PVC	4.09	507.95	6.44	505.60
AGM-5-SB	511.82	2-inch	PVC	5.36	506.46	6.15	505.67
AGM-6-SB ²	518.89	2-inch	PVC	7.80	511.09	9.44	509.45
AGM-7-OB	524.73	2-inch	PVC	3.10	521.63	3.65	521.08
AGM-7-SB	524.48	2-inch	PVC	4.63	519.85	NA ³	NA
AGM-8-OB	523.73	2-inch	PVC	4.20	519.53	2.88	520.85
AGM-8-SB	523.38	2-inch	PVC	13.12	510.26	11.95	511.43
MW99-C(S)	518.24	2-inch	S.S.	4.91	513.33	7.86	510.38
MW99-C(I)	516.34	2-inch	S.S.	5.74	510.60	7.96	508.38
MW99-D(S)	511.05	2-inch	S.S.	2.80	508.25	4.93	506.12
MW99-D(I)	510.09	2-inch	S.S.	1.68	508.41	3.65	506.44
MW99-E(D)	515.23	2-inch	S.S.	16.81	498.42	14.45	500.78
MW99-F(S) ²	523.76	2-inch	S.S.	0.71	523.05	2.68	521.08
MW99-F(I)	522.81	2-inch	S.S.	1.80	521.01	0.20	522.61
MW99-F(D)	523.56	2-inch	S.S.	3.38	520.18	4.19	519.37
MW99-G(S) ²	522.23	2-inch	S.S.	4.65	517.58	8.71	513.52
MW99-G(I) ²	522.48	2-inch	S.S.	6.18	516.30	9.90	512.58
MW99-G(D) ²	522.44	2-inch	S.S.	17.69	504.75	17.35	505.09
MW99-H(S)	512.78	2-inch	S.S.	4.68	508.10	NM	NA
MW99-H(I)	513.15	2-inch	S.S.	5.60	507.55	7.54	505.61
MW99-H(D)	514.09	2-inch	S.S.	8.55	505.54	9.51	504.58
MW99-I(S)	504.94	2-inch	S.S.	3.47	501.47	4.53	500.41
MW99-I(I)	505.16	2-inch	S.S.	3.15	502.01	3.85	501.31
MW99-I(D) ²	505.01	2-inch	S.S.	15.70	489.31	17.51	487.50
MW99-J(S)	504.92	2-inch	S.S.	3.45	501.47	3.99	500.93
MW99-J(I)	504.54	2-inch	S.S.	2.74	501.80	2.34	502.20
MW99-J(D)	504.72	2-inch	S.S.	11.66	493.06	11.68	493.04
GW-1S	520.11	2-inch	PVC	12.56	507.55	13.31	506.80
GEB-28BS	NA	2-inch	PVC	3.83	NA	5.90	NA
GEB-28BI	NA	2-inch	PVC	14.43	NA	14.16	NA
GEB-28BD	NA	2-inch	PVC	13.60	NA	12.90	NA
GEB-29BS	NA	2-inch	PVC	3.65	NA	8.13	NA
GEB-29BI	NA	2-inch	PVC	3.69	NA	7.68	NA
GEB-29BD	NA	2-inch	PVC	20.73	NA	18.43	NA
GEB-30BS	NA	2-inch	PVC	11.45	NA	11.43	NA
GEB-30BI	NA	2-inch	PVC	16.19	NA	14.53	NA
GEB-30BD	NA	2-inch	PVC	17.05	NA	14.00	NA

Notes:

ft = Feet

MSL = Mean Sea Level

PVC = Polyvinyl Chloride

S.S. = Stainless Steel

TOC = Top of Casing

NA = Not Available

NM = Not Measured

MW99-H(S) was damaged prior the September 2024 event and was unable to gauge.

1 = AGM-1-OB was repaired in June 2022 and the top of well casing elevation was surveyed in September 2022.

2 = Top of well casing elevation was surveyed in May 2020.

3 = The September 2024 groundwater level measurement at AGM7-SB is not included in the table due to an inaccurate field reading.

Table 3
Summary of VOCs in Groundwater, March 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:		AGM-1-OB		AGM-1-SB		AGM-3-OB		AGM-3-SB		AGM-5-SB		AGM-6-SB		AGM-7-OB		AGM-7-SB	
		Sample Date:	3/20/2024	3/21/2024	3/20/2024	3/21/2024	3/20/2024	3/21/2024	3/20/2024	3/20/2024	3/21/2024	3/21/2024	3/21/2024	3/21/2024	3/21/2024	3/21/2024			
		Dilution Factor:	10	5	2	8	2	1	1	1									
		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Volatile Organic Compounds																			
1,1,1-Trichloroethane	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	10	U	150		0.84	J	370		10		10		0.57	J	38			
1,1-Dichloroethene	5	10	U	9.8		2	U	8	U	2	U	0.29	J	1	U	0.36	J		
1,2-Dichloroethane	0.6	10	U	5	U	2	U	2.1	J	2	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Acrolein	5	200	U	100	U	40	U	160	U	40	U	20	U	20	U	20	U	20	U
Acrylonitrile	5	200	U	100	U	40	U	160	U	40	U	20	U	20	U	20	U	20	U
Benzene	1	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Bromodichloromethane	~	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Bromoform	~	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Bromomethane	5	10	U	5	UJ	2	UJ	8	U	2	U	1	UJ	1	U	1	U	1	UJ
Carbon tetrachloride	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Chloroethane	5	840		37	J	2	UJ	68		2.1		1	UJ	1	U	19	J		
Chloroform	7	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Chloromethane	~	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	5	10	U	6.6		2	U	8	U	2	U	6.8		1	U	0.90	J		
cis-1,3-Dichloropropene	0.4*	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Dibromochloromethane	~	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	20	U	10	U	4	U	16	U	4	U	2	U	2	U	2	U	2	U
m-Xylene & p-Xylene	5	20	U	10	U	4	U	16	U	4	U	2	U	2	U	2	U	2	U
o-Xylene	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Toluene	5	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	10	U	5	U	2	U	7.3	J	2	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	0.4*	10	U	5	U	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Trichloroethene	5	10	U	3.7	J	2	U	8	U	2	U	1	U	1	U	1	U	1	U
Vinyl chloride	2	10	U	5	UJ	2	UJ	8	U	2.1		7.1	J	1	U	1	U	1	UJ

Table 3
Summary of VOCs in Groundwater, March 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	AGM-8-OB	AGM-8-SB	MW99-G(S)	MW99-G(S)	MW99-H(I)	Trip Blank	Field Blank	Field Blank	Equipment Blank								
		Sample Date:	3/21/2024	3/21/2024	3/20/2024	3/20/2024	3/20/2024	3/21/2024	3/20/2024	3/21/2024	3/20/2024								
		Dilution Factor:	2	2	4	4	2	1	1	1	1								
		DUP																	
		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q								
Volatile Organic Compounds																			
1,1,1-Trichloroethane	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	11		100		1.9	J	4	U	2.3		1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	2	U	4.2		4	U	4	U	2	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	2	U	0.75	J	4	U	4	U	2	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Acrolein	5	40	U	40	U	80	U	80	U	40	U	20	U	20	U	20	U	20	U
Acrylonitrile	5	40	U	40	U	80	U	80	U	40	U	20	U	20	U	20	U	20	U
Benzene	1	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Bromodichloromethane	~	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Bromoform	~	2	U	2	U	4	U	4	U	2	U	1	UJ	1	U	1	UJ	1	UJ
Bromomethane	5	2	U	2	U	4	UJ	4	UJ	2	U	1	U	1	UJ	1	U	1	U
Carbon tetrachloride	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Chloroethane	5	1.1	J	37		4	UJ	4	UJ	2	U	1	U	1	UJ	1	U	1	U
Chloroform	7	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Chloromethane	~	2	U	2	U	4	UJ	4	U	2	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	5	2	U	21		4	U	4	U	2	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	0.4*	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Dibromochloromethane	~	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Ethylbenzene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	4	U	4	U	8	U	8	U	4	U	2	U	2	U	2	U	2	U
m-Xylene & p-Xylene	5	4	U	4	U	8	U	8	U	4	U	2	U	2	U	2	U	2	U
o-Xylene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Toluene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	0.4*	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Trichloroethene	5	2	U	2	U	4	U	4	U	2	U	1	U	1	U	1	U	1	U
Vinyl chloride	2	2	U	24		4	UJ	4	UJ	2	U	1	U	1	UJ	1	U	1	U

Table 3
Summary of VOCs in Groundwater, March 2024
Former 3M/Dynacolor Facility
Brockport, New York



Notes:

µg/L = Micrograms per liter

* = Applies to the total for 1,3-Dichloro-1-propene

~ = No NYSDEC Groundwater Quality Standard designated

NYSDEC = New York State Department of Environmental Conservation

Q = Qualifier

DUP = Duplicate sample

J = Associated value is an estimate.

U = Constituent was not detected at or above the reporting limit.

UJ = The constituent was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

190 = Bold and underline indicates a constituent concentration exceeds applicable NYSDEC Groundwater Quality Standards.

2.8 = Bold indicates a constituent was detected.

Table 4
Summary of TOC and Field Parameters in Groundwater, March 2024
Former 3M/Dynacolor Facility
Brockport, New York



Sample ID:	AGM-1-OB	AGM-1-SB	AGM-3-OB	AGM-3-SB	AGM-5-OB	AGM-5-SB	AGM-6-SB	AGM-7-OB
Parameter	Date Sampled:	3/20/2024	3/21/2024	3/20/2024	3/21/2024	3/20/2024	3/20/2024	3/21/2024
Redox (mV)		-76.8	-335.5	-99.1	6.5	-68.6	163.9	23.6
pH		7.27	8.28	7.39	7.04	6.55	6.59	7.11
Specific Conductivity (mS/cm)		1.286	2.078	4.361	12.028	7.159	7.662	0.709
Temp (°C)		5.3	8.1	8.4	6.6	6.4	6.5	3.3
Dissolved Oxygen (mg/L)		9.35	0.33	7.14	0.00	0.78	3.43	0.30
Turbidity (NTU)		175.8	16.95	47.25	27.5	17.99	41.84	7.86
Total Organic Carbon (mg/L)		80.9	13.1	15.1	NA	NA	NA	2.0

Sample ID:	AGM-7-SB	AGM-8-OB	AGM-8-SB	MW99-G(S)	MW99-H(I)
Parameter	Date Sampled:	3/21/2024	3/21/2024	3/21/2024	3/20/2024
Redox (mV)		-69.4	-22.7	37.5	0.0
pH		7.36	6.98	7.18	6.8
Specific Conductivity (mS/cm)		1.534	1.268	1.034	12.507
Temp (°C)		5.1	3.7	6.2	5.6
Dissolved Oxygen (mg/L)		8.06	0.17	0.12	0.00
Turbidity (NTU)		31.21	23.22	20.98	41.05
Total Organic Carbon (mg/L)		NA	10.9	NA	NA

Notes:

°C = degree Celsius

mg/L = milligrams per liter

mS/cm = millisiemens per centimeter

mV = millivolts

NA = not analyzed

NTU = Nephelometric Turbidity Units

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	AGM-1-OB		AGM-1-SB		AGM-2-OB		AGM-2-SB		AGM-3-IB		AGM-3-OB		AGM-3-SB		AGM-4-OB	
		Sample Date:	9/24/2024	9/24/2024	9/26/2024	9/26/2024	9/27/2024	9/24/2024	9/27/2024	9/30/2024								
		Dilution Factor:	10	4	10	1	10	2	10	1								
			Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Volatile Organic Compounds																		
1,1,1-Trichloroethane	5		10	U	4	U	<u>9.1</u>	J	1	U	10	U	2	U	10	U	1	U
1,1,2,2-Tetrachloroethane	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
1,1,2-Trichloroethane	1		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
1,1-Dichloroethane	5		10	U	<u>240</u>		<u>39</u>		<u>2.5</u>		10	U	<u>2.7</u>		<u>520</u>		1	U
1,1-Dichloroethene	5		10	U	<u>13</u>		10	U	1	U	10	U	2	U	10	U	1	U
1,2-Dichloroethane	0.6		10	U	<u>1.2</u>	J	10	U	1	U	10	U	<u>0.55</u>	J	10	U	1	U
1,2-Dichloropropane	1		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Acrolein	5		200	U	80	U	200	U	20	U	200	U	40	U	200	U	20	U
Acrylonitrile	5		200	U	80	U	50	U	5	U	50	U	40	U	50	U	5	U
Benzene	1		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Bromodichloromethane	~		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Bromoform	~		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Bromomethane	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Carbon tetrachloride	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Chlorobenzene	5		10	U	4	U	10	U	1	U	10	U	<u>3.9</u>		10	U	1	U
Chloroethane	5		<u>2400</u>	D	<u>81</u>		10	U	<u>3.4</u>		10	U	2	U	<u>140</u>		1	U
Chloroform	7		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Chloromethane	~		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
cis-1,2-Dichloroethene	5		10	U	<u>9.1</u>		10	U	1	U	10	U	2	U	10	U	1	U
cis-1,3-Dichloropropene	0.4*		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Dibromochloromethane	50		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Ethylbenzene	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Methylene Chloride	5		20	U	8	U	10	U	1	U	10	U	4	U	10	U	1	U
m-Xylene & p-Xylene	5		20	U	8	U	20	U	2	U	20	U	4	U	20	U	2	U
o-Xylene	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Tetrachloroethene	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Toluene	5		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
trans-1,2-Dichloroethene	5		10	U	4	U	10	U	<u>1.5</u>		10	U	2	U	10	U	1	U
trans-1,3-Dichloropropene	0.4*		10	U	4	U	10	U	1	U	10	U	2	U	10	U	1	U
Trichloroethene	5		10	U	<u>6.1</u>		10	U	1	U	10	U	2	U	10	U	1	U
Vinyl chloride	2		10	U	<u>8.8</u>		10	U	<u>1.4</u>		10	U	2	U	10	U	1	U
Cyanide - Total	200		59		NA		NA		NA		NA		NA		540		NA	

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:		AGM-4-SB	AGM-5-OB	AGM-5-SB	AGM-6-SB	AGM-7-OB	AGM-7-SB	AGM-8-OB	AGM-8-SB						
		Sample Date:	9/27/2024	9/24/2024	9/24/2024	9/26/2024	9/26/2024	9/26/2024	9/25/2024	9/25/2024							
		Dilution Factor:	1	4	2	10	10	10	2	2							
		Q	Q	Q	Q	Q	Q	Q	Q	Q							
Volatile Organic Compounds																	
1,1,1-Trichloroethane	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
1,1,2,2-Tetrachloroethane	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
1,1,2-Trichloroethane	1	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
1,1-Dichloroethane	5	<u>20</u>		<u>3.0</u>	J	<u>13</u>		<u>6.7</u>	J	<u>6.3</u>	J	<u>35</u>		<u>18</u>		<u>92</u>	
1,1-Dichloroethene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
1,2-Dichloroethane	0.6	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
1,2-Dichloropropane	1	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Acrolein	5	20	U	80	U	40	U	200	U	200	U	200	U	40	U	40	U
Acrylonitrile	5	5	U	80	U	40	U	50	U	50	U	50	U	40	U	40	U
Benzene	1	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Bromodichloromethane	~	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Bromoform	~	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Bromomethane	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Carbon tetrachloride	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Chlorobenzene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Chloroethane	5	1	U	4	U	<u>11</u>		10	U	10	U	<u>31</u>		2	U	<u>13</u>	
Chloroform	7	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Chloromethane	~	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
cis-1,2-Dichloroethene	5	<u>0.83</u>	J	4	U	<u>2.1</u>		10	U	10	U	10	U	2	U	<u>9.3</u>	
cis-1,3-Dichloropropene	0.4*	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Dibromochloromethane	50	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Ethylbenzene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Methylene Chloride	5	1	U	8	U	4	U	10	U	10	U	10	U	4	U	4	U
m-Xylene & p-Xylene	5	2	U	8	U	4	U	20	U	20	U	20	U	4	U	4	U
o-Xylene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Tetrachloroethene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Toluene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
trans-1,2-Dichloroethene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
trans-1,3-Dichloropropene	0.4*	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Trichloroethene	5	1	U	4	U	2	U	10	U	10	U	10	U	2	U	2	U
Vinyl chloride	2	<u>2.7</u>		4	U	<u>6.9</u>		10	U	10	U	10	U	2	U	<u>17</u>	
Cyanide - Total	200	<u>900</u>		NA		<u>120</u>		<u>380</u>		<u>110</u>		<u>3700</u>		NA		NA	

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	MW99-C(I)	MW99-C(S)	MW99-D(I)	MW99-F(D)	MW99-F(I)	MW99-G(D)	MW99-G(I)	MW99-G(S)
		Sample Date:	9/27/2024	9/26/2024	9/27/2024	10/1/2024	10/1/2024	9/26/2024	9/26/2024	9/26/2024
		Dilution Factor:	10	10	10	1	4	10	10	10
			Q	Q	Q	Q	Q	Q	Q	Q
Volatile Organic Compounds										
1,1,1-Trichloroethane	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
1,1,2-Trichloroethane	1		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
1,1-Dichloroethane	5		10 U	15	10 U	1 U	3.1	10 U	10 U	10 U
1,1-Dichloroethene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
1,2-Dichloroethane	0.6		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
1,2-Dichloropropane	1		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Acrolein	5		200 U	200 U	200 U	20 U	80 U	200 U	200 U	200 U
Acrylonitrile	5		50 U	50 U	50 U	5 U	20 U	50 U	50 U	50 U
Benzene	1		10 U	10 U	10 U	1 U	4 U	5.0	10 U	10 U
Bromodichloromethane	~		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Bromoform	~		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Bromomethane	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Carbon tetrachloride	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Chlorobenzene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Chloroethane	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Chloroform	7		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Chloromethane	~		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4*		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Dibromochloromethane	50		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Ethylbenzene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Methylene Chloride	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
m-Xylene & p-Xylene	5		20 U	20 U	20 U	2 U	8 U	20 U	20 U	20 U
o-Xylene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Tetrachloroethene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Toluene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4*		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Trichloroethene	5		10 U	10 U	10 U	1 U	4 U	10 U	10 U	10 U
Vinyl chloride	2		10 U	10 U	10 U	1 U	9.2	10 U	10 U	10 U
Cyanide - Total	200		NA	NA	360	NA	NA	NA	NA	NA

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	MW99-H(D)	MW99-H(I)	MW99-H(I)	MW99-H(S)	MW99-I(I)	MW99-I(S)	MW99-J(I)	MW99-J(I)	MW99-J(S)							
		Sample Date:	10/1/2024	9/30/2024	9/30/2024	9/30/2024	9/30/2024	9/30/2024	9/25/2024	9/25/2024	9/25/2024							
		Dilution Factor:	2	10	10	10	10	10	1	1	1							
		DUP										DUP						
		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q							
Volatile Organic Compounds																		
1,1,1-Trichloroethane	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,1-Dichloroethane	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,1-Dichloroethene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,2-Dichloroethane	0.6	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
1,2-Dichloropropane	1	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Acrolein	5	40	U	200	U	200	U	NS	200	U	200	U	20	U	20	U	20	U
Acrylonitrile	5	10	U	50	U	50	U	NS	50	U	50	U	20	U	20	U	20	U
Benzene	1	2	U	10	U	10	U	NS	10	U	10	U	1	UJ	1	U	1	U
Bromodichloromethane	~	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Bromoform	~	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Bromomethane	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Carbon tetrachloride	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Chlorobenzene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Chloroethane	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Chloroform	7	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Chloromethane	~	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	0.4*	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Dibromochloromethane	50	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Ethylbenzene	5	2	U	10	U	10	U	NS	10	U	10	U	1	UJ	1	U	1	U
Methylene Chloride	5	2	U	10	U	10	U	NS	10	U	10	U	2	U	2	U	2	U
m-Xylene & p-Xylene	5	4	U	20	U	20	U	NS	20	U	20	U	2	UJ	2	U	2	U
o-Xylene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Tetrachloroethene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Toluene	5	2	U	10	U	10	U	NS	10	U	10	U	1	UJ	1	U	1	U
trans-1,2-Dichloroethene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	0.4*	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Trichloroethene	5	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Vinyl chloride	2	2	U	10	U	10	U	NS	10	U	10	U	1	U	1	U	1	U
Cyanide - Total	200	NA		NA		NA		NA		NA		5.3	UB		4.9	UB		NA

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:		Trip Blank		Trip Blank		Trip Blank		Field Blank		Field Blank		Field Blank		Field Blank		Field Blank	
		Sample Date:	Dilution Factor:	9/25/2024	9/27/2024	10/1/2024	9/24/2024	9/25/2024	9/26/2024	9/27/2024	9/30/2024	10/1/2024							
			1	1	1	1	1	1	1	1	1	1							
			Q	Q	Q	Q	Q	Q	Q	Q	Q	Q							
Volatile Organic Compounds																			
1,1,1-Trichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,1,2,2-Tetrachloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,1,2-Trichloroethane	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,1-Dichloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,1-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,2-Dichloroethane	0.6		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Acrolein	5		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U							
Acrylonitrile	5		20 U	5 U	5 U	5 U	20 U	20 U	5 U	5 U	5 U	5 U							
Benzene	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Bromodichloromethane	~		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Bromoform	~		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Bromomethane	5		1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U							
Carbon tetrachloride	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Chlorobenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Chloroethane	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Chloroform	7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Chloromethane	~		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
cis-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
cis-1,3-Dichloropropene	0.4*		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Dibromochloromethane	50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Ethylbenzene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Methylene Chloride	5		2 U	1 U	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U							
m-Xylene & p-Xylene	5		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U							
o-Xylene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Tetrachloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Toluene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
trans-1,2-Dichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
trans-1,3-Dichloropropene	0.4*		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Trichloroethene	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U							
Cyanide - Total	200		NA	NA	NA	10	U	10	U	10	UJ	52				NA		NA	

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Equipment Blank		Equipment Blank	
		Sample Date:	9/25/2024	9/27/2024	
		Dilution Factor:	1	1	
			Q	Q	
Volatile Organic Compounds					
1,1,1-Trichloroethane	5	1	U	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U
1,2-Dichloropropane	1	1	U	1	U
Acrolein	5	20	U	20	U
Acrylonitrile	5	20	U	5	U
Benzene	1	1	U	1	U
Bromodichloromethane	~	1	U	1	U
Bromoform	~	1	U	1	U
Bromomethane	5	1	U	1	U
Carbon tetrachloride	5	1	U	1	U
Chlorobenzene	5	1	U	1	U
Chloroethane	5	1	U	1	U
Chloroform	7	1	U	1	U
Chloromethane	~	1	U	1	U
cis-1,2-Dichloroethene	5	1	U	1	U
cis-1,3-Dichloropropene	0.4*	1	U	1	U
Dibromochloromethane	50	1	U	1	U
Ethylbenzene	5	1	U	1	U
Methylene Chloride	5	2	U	1	U
m-Xylene & p-Xylene	5	2	U	2	U
o-Xylene	5	1	U	1	U
Tetrachloroethene	5	1	U	1	U
Toluene	5	1	U	1	U
trans-1,2-Dichloroethene	5	1	U	1	U
trans-1,3-Dichloropropene	0.4*	1	U	1	U
Trichloroethene	5	1	U	1	U
Vinyl chloride	2	1	U	1	U
Cyanide - Total	200	10	U	10	U

Table 5
Summary of VOCs and Total Cyanide in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Notes:

µg/L = Micrograms per liter

* = Applies to the total for 1,3-Dichloro-1-propene

~ = No NYSDEC Groundwater Quality Standard designated

NYSDEC = New York State Department of Environmental Conservation

Q = Qualifier

DUP = Duplicate sample

NA = Not analyzed

NS = Not sampled

D = Compound detected in a secondary dilution.

J = Associated value is an estimate.

U = Constituent was not detected at or above the reporting limit.

UB = Constituent is considered non-detect at the listed value due to associated blank contamination.

UJ = The constituent was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

250 = Bold and underline indicates a constituent concentration exceeds applicable NYSDEC Groundwater Quality Standards.

0.35 = Bold indicates the constituent was detected.

MW99-H(S) was not sampled due to the damaged well riser.

Table 6
Summary of TOC and Field Parameters in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



	Sample ID:	AGM-1-OB	AGM-1-SB	AGM-1-IB	AGM-2-OB	AGM-2-SB	AGM-2-IB	AGM-3-OB	AGM-3-SB	AGM-3-IB
Parameter	Date Sampled:	9/24/2024	9/24/2024	9/25/2024	9/26/2024	9/26/2024	9/25/2024	9/24/2024	9/27/2024	9/27/2024
Redox (mV)		-2.6	-140.2	-42.6	-54.2	-40.9	-91.9	-152.3	-93	-55.2
pH		6.54	8.38	7.47	7.14	7.58	7.58	6.76	7.04	6.89
Specific Conductivity (mS/cm)		2.053	3.190	12.41	4.176	1.163	18.922	3.850	13.863	4.727
Temp (°C)		16.9	15.7	14.9	16.3	14.1	14.7	20.2	18.7	16.8
Dissolved Oxygen (mg/L)		0.83	1.00	1.31	1.03	1.06	1.04	0.06	0.9	1.8
Turbidity (NTU)		237.38	25.1	29.54	2.95	29.09	5.74	2.45	8.50	12.12
Total Organic Carbon (mg/L)		34.1	18.9	NA	NA	NA	NA	22.7	NA	NA

	Sample ID:	AGM-4-OB	AGM-4-SB	AGM-4-IB	AGM-5-OB	AGM-5-SB	AGM-6-SB	AGM-7-OB	AGM-7-SB	AGM-8-OB	AGM-8-SB
Parameter	Date Sampled:	9/30/2024	9/27/2024	9/30/2024	9/24/2024	9/24/2024	9/26/2024	9/26/2024	9/26/2024	9/25/2024	9/25/2024
Redox (mV)		-78.6	-87.1	-121	-97.9	-76.7	-48.1	-39.9	-49.1	-95.1	-17.6
pH		7.61	7.46	8.34	6.57	6.76	7.07	7.23	7.23	6.93	6.91
Specific Conductivity (mS/cm)		1.459	17.920	1.730	11.504	8.601	4.85	1.399	2.753	1.458	0.428
Temp (°C)		21.2	20.7	17.3	15.8	14.6	18.8	17.9	16.9	17.9	16.3
Dissolved Oxygen (mg/L)		0.82	0.88	0.9	0.35	0.46	0.91	3.72	1.06	0.77	1.15
Turbidity (NTU)		49.39	3.55	5.16	2.91	6.00	2.13	77.15	0.00	6.48	39.33
Total Organic Carbon (mg/L)		NA	NA	NA	NA	NA	NA	16.2	NA	12.9	NA

	Sample ID:	MW-99-C(S)	MW-99-C(I)	MW-99-D(I)	MW-99-F(I)	MW-99-F(D)	MW-99-F(S)	MW-99-G(S)	MW-99-G(I)	MW-99-G(D)
Parameter	Date Sampled:	9/26/2024	9/27/2024	9/27/2024	10/1/2024	10/1/2024	10/1/2024	9/26/2024	9/26/2024	9/26/2024
Redox (mV)		-111.2	-125.8	-73.4	-98.3	-7.3	56.6	-96.2	-323.6	-191.3
pH		6.80	6.97	7.19	7.43	10.75	7.21	6.74	8.32	12.69
Specific Conductivity (mS/cm)		10.699	12.001	4.628	1.340	1.020	1.487	11.954	6.764	16.521
Temp (°C)		19.1	15.3	16.3	18.1	16.2	18.1	17.5	16.7	14.1
Dissolved Oxygen (mg/L)		0.29	0.78	0.25	0.95	1.32	1.10	0.60	0.06	0.22
Turbidity (NTU)		3.17	43.64	2.76	4.36	1.43	27.29	1.76	7.06	8.65
Total Organic Carbon (mg/L)		NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 6
Summary of TOC and Field Parameters in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Parameter	Sample ID:	MW-99-H(I)	MW-99-H(D)	MW-99-I(S)	MW-99-I(I)	MW-99-I(D)	MW-99-J(S)	MW-99-J(I)	MW-99-J(D)
	Date Sampled:	9/30/2024	10/1/2024	9/30/2024	9/30/2024	9/30/2024	9/25/2024	9/25/2024	9/25/2024
Redox (mV)		-88.7	-172.4	-73.7	-289.6	-273.9	-50.1	-94.5	-164.3
pH		7.01	12.12	6.84	7.09	8.50	7.15	7.34	12.16
Specific Conductivity (mS/cm)		4.974	12.770	6.251	6.266	11.218	1.815	1.056	3.010
Temp (°C)		17.8	15.1	18.1	16.9	16.7	17.6	16.2	15.0
Dissolved Oxygen (mg/L)		0.13	0.34	0.32	0.09	0.11	0.22	0.21	0.25
Turbidity (NTU)		22.37	7.14	41.29	1.65	32.6	3.91	17.52	19.47
Total Organic Carbon (mg/L)		NA	NA	NA	NA	NA	NA	NA	NA

Parameter	Sample ID:	GEB-28BI	GEB-28BD	GEB-30BS	GEB-30BI
	Date Sampled:	10/1/2024	10/1/2024	9/30/2024	9/30/2024
Redox (mV)		-142.1	-101.2	45.2	20.2
pH		7.1	7.17	6.94	7.03
Specific Conductivity (mS/cm)		4.438	4.551	2.212	2.814
Temp (°C)		15.2	17.0	16.0	16.3
Dissolved Oxygen (mg/L)		0.27	1.37	0.92	1.02
Turbidity (NTU)		3.64	7.15	1.61	4.97
Total Organic Carbon (mg/L)		NA	NA	NA	NA

Notes:

°C = degree Celsius

mg/L = milligrams per liter

mS/cm = millisiemens per centimeter

mV = millivolts

NA = not analyzed

NTU = Nephelometric Turbidity Units

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-1-OB 7/29/2010 100	AGM-1-OB 7/8/2011 5	AGM-1-OB 7/24/2012 40	AGM-1-OB 7/8/2013 10	AGM-1-OB 7/10/2014 10	AGM-1-OB 7/30/2015 20	AGM1-OB 9/30/2016 20	AGM-1-OB 9/21/2017 20							
Constituent (µg/L)	(µg/L)																
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	5		<u>18000</u>	<u>29000</u>	D	<u>94</u>	10	U	10	U	20	U	20	U	20	U	
1,1-Dichloroethane	5		<u>10000</u>	<u>2300</u>	D	<u>1500</u>	<u>19</u>		10	U	20	U	20	U	20	U	
1,1-Dichloroethene	5		<u>2400</u>	<u>4600</u>	D	<u>140</u>	3.8	J	10	U	20	U	20	U	20	U	
Benzene	1		100	U	5	U	40	U	10	U	10	U	20	U	20	U	
Chloroethane	5		<u>2900</u>	<u>800</u>	D	<u>2800</u>	<u>850</u>		<u>1100</u>	D	<u>1000</u>		<u>1500</u>	J	<u>2100</u>	D	
cis-1,2-Dichloroethene	5		100	U	<u>66</u>	40	U	10	U	10	U	20	U	20	U	20	U
Ethylbenzene	5		100	U	5	U	40	U	10	U	10	U	20	U	20	U	
Tetrachloroethene	5		100	U	<u>52</u>	40	U	10	U	10	U	20	U	20	U	20	U
Toluene	5		100	U	<u>12</u>	<u>53</u>	<u>230</u>		<u>19</u>		20	U	20	U	20	U	
Trichloroethene	5		<u>360</u>	J	<u>510</u>	D	40	U	10	U	10	U	20	U	20	U	
Vinyl chloride	2		<u>420</u>		<u>120</u>	<u>62</u>	10	U	10	U	20	U	20	U	20	U	
Cyanide - Total	200		<u>232</u>	190	26	6.3	J	39	53		63		90				

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-1-OB		AGM-1-OB		AGM-1-OB		AGM-1-OB		AGM-1-OB		AGM-1-OB		AGM-1-OB			
	(µg/L)		9/12/2018		9/11/2019		5/21/2020		10/28/2020		3/25/2021		9/23/2021		3/29/2022		9/6/2022	
			40		40		40		40		20		50		50		50	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		40	U	40	U		<u>470</u>	40	U		<u>450</u>		<u>280</u>		<u>3800</u>		<u>180</u>
1,1-Dichloroethane	5		40	U	40	U		<u>1600</u>	40	U		<u>1200</u>		<u>690</u>		<u>2800</u>		<u>1300</u>
1,1-Dichloroethene	5		40	U	40	U		<u>190</u>	40	U		<u>150</u>		<u>55</u>		<u>1200</u>		<u>77</u>
Benzene	1		40	U	40	U	40	U	40	U	20	U	50	U	50	U	50	U
Chloroethane	5		<u>2500</u>	J	<u>3300</u>		<u>3200</u>	D	<u>3500</u>	D	<u>3700</u>	D	<u>2300</u>		<u>3700</u>		<u>1400</u>	
cis-1,2-Dichloroethene	5		40	U	40	U	40	U	40	U	<u>26</u>		50	U	<u>71</u>		50	U
Ethylbenzene	5		40	U	40	U	40	U	40	U	20	U	50	U	50	U	50	U
Tetrachloroethene	5		40	U	40	U	40	U	40	U	20	U	50	U	50	U	50	U
Toluene	5		40	U	40	U	40	U	40	U	20	U	50	U	50	U	50	U
Trichloroethene	5		40	U	40	U	<u>22</u>	J	40	U	<u>14</u>	J	50	U	<u>110</u>	J	50	U
Vinyl chloride	2		40	U	40	U	<u>94</u>		40	U	<u>54</u>		50	U	<u>170</u>		<u>73</u>	U
Cyanide - Total	200		99		54	J	NA		86	J	NA		140	J	NA		<u>240</u>	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
			3/9/2023	9/27/2023	3/20/2024	9/24/2024
			50	50	10	10
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	5		<u>67</u>	50 U	10 U	10 U
1,1-Dichloroethane	5		<u>930</u>	50 U	10 U	10 U
1,1-Dichloroethene	5		<u>47</u> J	50 U	10 U	10 U
Benzene	1		50 U	50 U	10 U	10 U
Chloroethane	5		<u>1600</u>	<u>2000</u>	<u>840</u>	<u>2400</u> D
cis-1,2-Dichloroethene	5		50 U	50 U	10 U	10 U
Ethylbenzene	5		50 U	50 U	10 U	10 U
Tetrachloroethene	5		50 U	50 U	10 U	10 U
Toluene	5		50 U	50 U	10 U	10 U
Trichloroethene	5		50 U	50 U	10 U	10 U
Vinyl chloride	2		50 U	50 U	10 U	10 U
Cyanide - Total	200		NA	79	NA	59

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	AGM-1-SB		AGM-1-SB		AGM-1-SB		AGM-1-SB		AGM-1-SB		AGM1-SB		AGM1-SB			
		Sample Date:	7/29/2010		7/29/2010		7/8/2011		7/24/2012		7/8/2013		7/10/2014		7/30/2015		9/30/2016	
		Dilution Factor:	4		4		5		8		4		4		4		5	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		4.0	U	4.0	U	5.0	U	8.0	U	4.0	U	4.0	U	4.0	U	5.0	U
1,1-Dichloroethane	5		<u>330</u>		<u>340</u>		<u>310</u>		<u>630</u>		<u>250</u>		<u>210</u>		<u>280</u>		<u>180</u>	
1,1-Dichloroethene	5		<u>47</u>		<u>46</u>		<u>29</u>		<u>94</u>		<u>40</u>		<u>31</u>		<u>29</u>		<u>18</u>	
Benzene	1		4.0	U	4.0	U	5.0	U	8.0	U	4.0	U	4.0	U	4.0	U	5.0	U
Chloroethane	5		<u>95</u>		<u>130</u>		<u>130</u>		<u>98</u>		<u>33</u>		<u>20</u>		<u>41</u>		<u>27</u>	
cis-1,2-Dichloroethene	5		<u>21</u>		<u>22</u>		<u>16</u>		<u>32</u>		<u>19</u>		<u>15</u>		<u>18</u>		<u>12</u>	
Ethylbenzene	5		4.0	U	4.0	U	5.0	U	8.0	U	4.0	U	4.0	U	4.0	U	5.0	U
Tetrachloroethene	5		4.0	U	4.0	U	5.0	U	8.0	U	4.0	U	4.0	U	4.0	U	5.0	U
Toluene	5		4.0	U	4.0	U	5.0	U	4.9	J	4.0	U	4.0	U	4.0	U	5.0	U
Trichloroethene	5		<u>58</u>		<u>59</u>		<u>41</u>		<u>64</u>		<u>28</u>		<u>16</u>		<u>18</u>		<u>11</u>	
Vinyl chloride	2		<u>24</u>		4.0	U	<u>27</u>		<u>49</u>		<u>22</u>		<u>13</u>		<u>16</u>		<u>8.2</u>	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-1-SB 9/21/2017 2	AGM-1-SB 9/12/2018 5	AGM-1-SB 9/11/2019 4	AGM-1-SB 5/21/2020 5	AGM-1-SB 10/28/2020 5	AGM-1-SB 3/25/2021 5	AGM-1-SB 9/23/2021 5	AGM-1-SB 3/29/2022 5
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5		<u>200</u> D	<u>260</u>	<u>240</u>	<u>280</u>	<u>250</u>	<u>220</u>	<u>270</u>	<u>270</u>
1,1-Dichloroethene	5		<u>36</u>	<u>28</u>	<u>18</u>	<u>17</u>	<u>14</u>	<u>10</u>	<u>28</u>	<u>13.0</u>
Benzene	1		2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5		<u>110</u>	<u>35</u>	<u>61</u>	<u>58</u>	<u>44</u>	<u>64</u>	<u>63</u>	<u>110</u>
cis-1,2-Dichloroethene	5		<u>17</u>	<u>17</u>	<u>12</u>	<u>8.8</u>	<u>8.4</u>	<u>12</u>	<u>24</u>	<u>7.7</u>
Ethylbenzene	5		2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5		2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5		2.0 U	5.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5		<u>15</u>	<u>13</u>	<u>7</u>	<u>8.1</u>	<u>7.9</u>	3 J	<u>5.9</u>	<u>7.0</u> J
Vinyl chloride	2		<u>17</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>10</u>	<u>12</u>	<u>20</u>	<u>13.0</u>
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-1-SB 9/6/2022 5	AGM-1-SB 3/9/2023 5	AGM-1-SB 9/27/2023 5	AGM-1-SB 3/21/2024 5	AGM-1-SB 9/24/2024 4
Constituent (µg/L)	(µg/L)						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U
1,1-Dichloroethane	5		<u>230</u>	<u>200</u>	<u>250</u>	<u>150</u>	<u>240</u>
1,1-Dichloroethene	5		<u>15</u>	<u>15</u>	<u>6.3</u>	<u>9.8</u>	<u>13</u>
Benzene	1		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U
Chloroethane	5		<u>68</u>	<u>57</u>	<u>65</u>	<u>37</u> J	<u>81</u>
cis-1,2-Dichloroethene	5		<u>8.6</u>	<u>9.1</u>	<u>5.4</u>	<u>6.6</u>	<u>9.1</u>
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U
Trichloroethene	5		<u>8.4</u>	<u>5.1</u>	3.6 J	3.7 J	<u>6.1</u>
Vinyl chloride	2		<u>5.0</u>	<u>8.6</u>	<u>6.2</u>	5.0 UJ	<u>8.8</u>
Cyanide - Total	200		NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-2-OB 7/29/2010 10	AGM-2-OB 7/6/2011 5	AGM-2-OB 7/25/2012 5	AGM-2-OB 7/10/2013 5	AGM-2-OB 7/10/2014 1	AGM-2-OB 7/28/2015 1	AGM-2-OB 9/29/2016 4	AGM-2-OB 9/18/2017 4
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	<u>13</u>	<u>5</u>	5.0 U	1.0 U	1.0 U	<u>7.7</u>	3.5 J
1,1-Dichloroethane	5		<u>25</u>	<u>35</u>	<u>20</u>	5.0 U	3.6	2.7	<u>30</u>	<u>12</u>
1,1-Dichloroethene	5		10 U	<u>16</u>	3.1 J	5.0 U	0.73 J	0.59 J	2.5 J	4.0 U
Benzene	1		10 U	5.0 U	5.0 U	5.0 U	<u>1.4</u>	0.96 J	4.0 U	4.0 U
Chloroethane	5		10 U	<u>8</u>	5.0 U	5.0 U	1.0 U	1.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	4.0 U	4.0 U
Ethylbenzene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	4.0 U	4.0 U
Tetrachloroethene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	4.0 U	4.0 U
Toluene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	4.0 U	4.0 U
Trichloroethene	5		10 U	<u>7.9</u>	2.9 J	5.0 U	0.52 J	0.47 J	4	4.0 U
Vinyl chloride	2		10 U	<u>5.4</u>	5.0 U	5.0 U	1 U	1 U	<u>5.9</u>	4.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-2-OB		AGM-2-OB		AGM-2-OB		AGM-2-OB		AGM-2-OB		AGM-2-OB		AGM-2-OB	
			9/12/2018		9/11/2019		10/27/2020		9/23/2021		9/1/2022		9/26/2023		9/26/2024	
			4		4		4		4		4		4		10	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		3.9	J	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	<u>9.1</u>	J
1,1-Dichloroethane	5		<u>11</u>		<u>7.7</u>		<u>13</u>		3.6	J	<u>5</u>		<u>20</u>		<u>39</u>	
1,1-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Benzene	1		4.0	U	4.0	U	<u>1.7</u>	J	4.0	U	4.0	U	4.0	U	10.0	U
Chloroethane	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
cis-1,2-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Ethylbenzene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Tetrachloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Toluene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Trichloroethene	5		2.0	J	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Vinyl chloride	2		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-2-SB 7/29/2010 5	AGM-2-SB 7/6/2011 5	AGM-2-SB 7/25/2012 5	AGM-2-SB 7/10/2013 1	AGM-2-SB 7/10/2014 1	AGM-2-SB 7/28/2015 1	AGM-2-SB 9/29/2016 1	AGM-2-SB 9/18/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		4.5	4.7	3 J	2.9	6.9	12	5.9	11
1,1-Dichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		0.71 J	5.0 U	5.0 U	2.9	6.5	1.0 U	1.0 U	0.42 J
Chloroethane	5		25	30	15	21	18	14	15	9.8
cis-1,2-Dichloroethene	5		0.91 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.2	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.96 J	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-2-SB 9/12/2018 1	AGM-2-SB 9/12/2019 1	AGM-2-SB 10/27/2020 1	AGM-2-SB 9/23/2021 1	AGM-2-SB 9/2/2022 1	AGM-2-SB 9/26/2023 1	AGM-2-SB 9/26/2024 1
Constituent (µg/L)	(µg/L)								
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		<u>6.8</u>	<u>6.3</u>	<u>6.2</u>	4.0	3.9	3.7	2.5
1,1-Dichloroethene	5		1.0 U	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		0.52 J	1.0 U	0.51 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		<u>6.6</u> J	<u>6.5</u>	4.5	4.2	<u>5.2</u>	4.4	3.4
cis-1,2-Dichloroethene	5		0.81 J	1.0 U	1.5	1.3	1.6	1.1	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.3	1.1	<u>2.2</u>	<u>2.1</u>	1.4
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-3-OB 7/28/2010 20	AGM-3-OB 7/7/2011 5	AGM-3-OB 7/24/2012 5	AGM-3-OB 7/10/2013 5	AGM-3-OB 7/10/2013 20	AGM-3-OB 7/8/2014 5	AGM-3-OB 7/28/2015 10	AGM-3-OB 9/29/2016 2
Constituent (µg/L)	(µg/L)						DUP			
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		20 U	<u>5.5</u>	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
1,1-Dichloroethane	5		<u>6.7</u> J	<u>67</u>	<u>30</u>	<u>1500</u> D	<u>1700</u>	<u>1100</u> D	<u>650</u>	<u>120</u>
1,1-Dichloroethene	5		20 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
Benzene	1		20 U	5.0 U	5.0 U	<u>2.2</u> J	20 U	5.0 U	10 U	2.0 U
Chloroethane	5		<u>120</u>	<u>220</u>	<u>76</u>	<u>110</u>	<u>110</u>	<u>46</u>	<u>37</u>	<u>47</u>
cis-1,2-Dichloroethene	5		20 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
Ethylbenzene	5		20 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
Tetrachloroethene	5		20 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
Toluene	5		20 U	5.0 U	5.0 U	<u>12</u>	<u>12</u> J	4.1 J	10 U	2.0 U
Trichloroethene	5		20 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	10 U	2.0 U
Vinyl chloride	2		20 U	5.0 U	5.0 U	<u>68</u>	<u>69</u>	<u>41</u>	<u>27</u>	2.0 U
Cyanide - Total	200		36.8	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID:	AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB			
		Sample Date:	9/19/2017		9/19/2017		9/12/2018		9/9/2019		5/21/2020		10/28/2020		3/25/2021		9/24/2021	
		Dilution Factor:	10		4		5		5		5		4		5		2	
Constituent (µg/L)	(µg/L)		DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		10	U	4.0	U	5.0	U	5.0	U	<u>21</u>		4.0	U	5.0	U	2.0	U
1,1-Dichloroethane	5		<u>280</u>		<u>300</u>		<u>270</u>		<u>130</u>		<u>48</u>		<u>62</u>		3.7	J	<u>20</u>	
1,1-Dichloroethene	5		10	U	4.0	U	5.0	U	5.0	U	2.8	J	4.0	U	5.0	U	2.0	U
Benzene	1		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4	U	5.0	U	2.0	U
Chloroethane	5		10	U	<u>8.2</u>		<u>8.9</u>	J	<u>11</u>		<u>5.2</u>		2.1	J	2.9	J	2.0	U
cis-1,2-Dichloroethene	5		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	1.6	J
Ethylbenzene	5		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	2.0	U
Tetrachloroethene	5		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	2.0	U
Toluene	5		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	2.0	U
Trichloroethene	5		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	2.0	U
Vinyl chloride	2		10	U	4.0	U	5.0	U	5.0	U	5.0	U	4.0	U	5.0	U	<u>2.6</u>	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC	Well ID:	AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB		AGM-3-OB	
	Groundwater	Sample Date:	3/29/2022		9/1/2022		3/9/2023		9/25/2023		3/20/2024		9/24/2024	
	Quality													
	Standards	Dilution Factor:	2		2		5		2		2		2	
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	5		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	5		<u>5.0</u>		<u>25</u>		<u>7.6</u>		<u>28</u>		0.84	J	2.7	
1,1-Dichloroethene	5		2.0	U	1.3	J	5.0	U	1.3	J	2.0	U	2.0	U
Benzene	1		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	5		<u>9.2</u>		<u>11</u>		<u>5.9</u>		<u>12</u>		2.0	UJ	2.0	U
cis-1,2-Dichloroethene	5		2.0	U	1.7	J	5.0	U	2.4		2.0	U	2.0	U
Ethylbenzene	5		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	5		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
Toluene	5		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	5		2.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U
Vinyl chloride	2		2.0	U	<u>5.2</u>		5.0	U	<u>5.2</u>		2.0	UJ	2.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID:	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB	AGM-3-SB							
		Sample Date:	7/28/2010	7/7/2011	7/24/2012	7/24/2012	7/12/2013	7/8/2014	7/28/2015	9/27/2016								
		Dilution Factor:	20	10	40	40	20	4	40	40								
Constituent (µg/L)	(µg/L)		DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		20	U	10	U	40	U	40	U	20	U	4.0	U	40	U	40	U
1,1-Dichloroethane	5		<u>230</u>		<u>2500</u>	D	<u>2700</u>		<u>2300</u>		<u>1900</u>		<u>2300</u>	D	<u>2,700</u>		<u>1700</u>	
1,1-Dichloroethene	5		20	U	<u>31</u>		<u>45</u>	J	<u>37</u>	J	<u>21</u>		<u>24</u>		<u>19</u>	J	40	U
Benzene	1		20	U	10	U	40	U	40	U	20	U	<u>1.8</u>	J	40	U	40	U
Chloroethane	5		<u>410</u>		<u>220</u>		<u>32</u>	J	40	U	<u>61</u>		<u>61</u>		<u>46</u>		<u>81</u>	
cis-1,2-Dichloroethene	5		20	U	<u>78</u>		<u>84</u>		<u>79</u>		<u>60</u>		<u>69</u>		<u>72</u>		40	U
Ethylbenzene	5		20	U	10	U	40	U	40	U	20	U	4.0	U	40	U	40	U
Tetrachloroethene	5		20	U	10	U	40	U	40	U	20	U	4.0	U	40	U	40	U
Toluene	5		<u>92</u>		<u>27</u>		40	U	40	U	20	U	2.8	J	40	U	40	U
Trichloroethene	5		20	U	<u>210</u>		<u>300</u>		<u>310</u>		<u>150</u>		<u>100</u>		<u>41</u>		40	U
Vinyl chloride	2		20	U	<u>200</u>		<u>290</u>		<u>220</u>		<u>190</u>		<u>130</u>		<u>140</u>		40	U
Cyanide - Total	200		<u>551</u>	D	<u>1300</u>		<u>610</u>		<u>580</u>		<u>630</u>		<u>750</u>		<u>580</u>		<u>980</u>	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB	
			9/27/2016		9/19/2017		9/12/2018		9/9/2019		5/21/2020		10/27/2020		3/24/2021		9/24/2021	
			25		40		40		40		40		40		40		40	
			DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
1,1-Dichloroethane	5		1700		1800		1700		1600	J	1600		1700		1400		1000	
1,1-Dichloroethene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Benzene	1		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Chloroethane	5		89		40		40	U	74	J	100		290		150		180	
cis-1,2-Dichloroethene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Ethylbenzene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Tetrachloroethene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Toluene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Trichloroethene	5		25	U	40	U	40	U	40	UJ	40	U	40	U	40	U	40	U
Vinyl chloride	2		25	U	40	U	40	U	40	UJ	57		40	U	40	U	40	U
Cyanide - Total	200		NA		580		640		1100	J	NA		700		NA		820	J

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

Constituent (µg/L)	NYSDEC	Well ID:	AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB		AGM-3-SB	
	Groundwater	Sample Date:	3/30/2022		8/31/2022		3/8/2023		9/26/2023		3/21/2024		9/27/2024	
	Quality	Dilution Factor:	40		40		40		40		8		10	
	Standards	(µg/L)												
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	5		40	U	40	U	40	U	40	U	8	U	10	U
1,1-Dichloroethane	5		<u>1000</u>		<u>1100</u>		<u>700</u>		<u>710</u>		<u>370</u>		<u>520</u>	
1,1-Dichloroethene	5		40	U	40	U	40	U	40	U	8	U	10	U
Benzene	1		40	U	40	U	40	U	40	U	8	U	10	U
Chloroethane	5		<u>210</u>		<u>200</u>		<u>180</u>		<u>170</u>		<u>68</u>		<u>140</u>	
cis-1,2-Dichloroethene	5		40	U	40	U	40	U	40	U	8	U	10	U
Ethylbenzene	5		40	U	40	U	40	U	40	U	8	U	10	U
Tetrachloroethene	5		40	U	40	U	40	U	40	U	8	U	10	U
Toluene	5		40	U	40	U	40	U	40	U	8	U	10	U
Trichloroethene	5		40	U	40	U	40	U	40	U	8	U	10	U
Vinyl chloride	2		40	U	40	U	40	U	40	U	8	U	10	U
Cyanide - Total	200		NA		180		NA		<u>560</u>		NA		<u>540</u>	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-3-IB 7/28/2010 5	AGM-3-IB 7/7/2011 5	AGM-3-IB 7/24/2012 5	AGM-3-IB 7/10/2013 1	AGM-3-IB 7/8/2014 1	AGM-3-IB 7/28/2015 1	AGM-3-IB 9/28/2016 1	AGM-3-IB 9/19/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		5.0 U	4.4 J	5.0 U	1.0	1.0	0.96 J	0.54 J	1.0 U
1,1-Dichloroethene	5		2.6 J	5.0 U	5.0 U	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		<u>16</u>	<u>13</u>	5.0 U	2.9	1.3	1.2	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-3-IB		AGM-3-IB		AGM-3-IB		AGM-3-IB		AGM-3-IB		AGM-3-IB		AGM-3-IB	
			9/12/2018		9/9/2019		10/27/2020		9/24/2021		9/1/2022		9/26/2023		9/27/2024	
			1		1		1		2		2		2		10	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
1,1-Dichloroethane	5		2.8		2.4		3.1		1.7	J	1.9	J	2.6		10	U
1,1-Dichloroethene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Benzene	1		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Chloroethane	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Ethylbenzene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Tetrachloroethene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Toluene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Trichloroethene	5		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Vinyl chloride	2		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-4-OB 7/28/2010 5	AGM-4-OB 7/7/2011 5	AGM-4-OB 7/23/2012 5	AGM-4-OB 7/11/2013 1	AGM-4-OB 7/9/2014 1	AGM4-OB 7/30/2015 1	AGM4-OB 9/27/2016 1	AGM-4-OB 9/20/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.2	5.0 U	5.0 U	1.0 U	0.5 J	1.0 U	0.71 J	1.0 U
1,1-Dichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		146	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-4-OB 9/11/2018 1	AGM-4-OB 9/10/2019 1	AGM-4-OB 10/27/2020 1	AGM-4-OB 9/23/2021 1	AGM-4-OB 9/2/2022 1	AGM-4-OB 9/25/2023 1	AGM-4-OB 9/25/2023 1	AGM-4-OB 9/30/2024 1
Constituent (µg/L)	(µg/L)								DUP	
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		0.69 J	0.89 J	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-4-SB 7/28/2010 10	AGM-4-SB 7/7/2011 5	AGM-4-SB 7/23/2012 5	AGM-4-SB 7/11/2013 5	AGM-4-SB 7/9/2014 5	AGM4-SB 7/30/2015 5	AGM4-SB 9/27/2016 1	AGM-4-SB 9/20/2017 4
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
1,1-Dichloroethane	5		10 U	<u>5.6</u>	5.0 U	5.0 U	3.2 J	<u>6</u>	<u>8.8</u>	<u>5.4</u>
1,1-Dichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Benzene	1		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Chloroethane	5		<u>15</u>	<u>19</u>	5.0 U	5.0 U	5.0 U	5.0 U	2.4	4.0 U
cis-1,2-Dichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Ethylbenzene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Tetrachloroethene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Toluene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Trichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U
Vinyl chloride	2		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3	4.0 U
Cyanide - Total	200		<u>247</u>	<u>370</u>	80	80	140	<u>290</u>	<u>410</u>	<u>540</u>

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC	Well ID:	AGM-4-SB		AGM-4-SB		AGM-4-SB		AGM-4-SB		AGM-4-SB		AGM-4-SB		AGM-4-SB			
	Groundwater	Sample Date:	9/11/2018		9/10/2019		9/10/2019		10/27/2020		9/23/2021		9/1/2022		9/26/2023		9/27/2024	
	Quality Standards		Dilution Factor:	4	4	4	4	1	2	2	1							
(µg/L)			DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
1,1-Dichloroethane	5		<u>11</u>		<u>15</u>		<u>15</u>		<u>11</u>		<u>36</u>	J	<u>25</u>	J	<u>12</u>		<u>20</u>	
1,1-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Benzene	1		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Chloroethane	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	J	2.0	U	2.0	U	1.0	U
cis-1,2-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.1	U	2.0	U	2.0	U	0.83	J
Ethylbenzene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Tetrachloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Toluene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Trichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	1.0	U	2.0	U	2.0	U	1.0	U
Vinyl chloride	2		4.0	U	4.0	U	4.0	U	4.0	U	<u>4.8</u>	J	<u>3.9</u>		2.0	U	<u>2.7</u>	
Cyanide - Total	200		<u>410</u>		<u>360</u>		<u>380</u>		<u>520</u>	J	<u>2000</u>	J	<u>1100</u>		<u>630</u>		<u>900</u>	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-5-OB 7/27/2010 10	AGM-5-OB 7/6/2011 5	AGM-5-OB 7/25/2012 5	AGM-5-OB 7/9/2013 5	AGM-5-OB 7/8/2014 1	AGM-5-OB 7/29/2015 4	AGM-5-OB 9/30/2016 5	AGM-5-OB 9/21/2017 4
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
1,1-Dichloroethane	5		<u>31</u>	<u>36</u>	<u>5.1</u>	<u>22</u>	<u>11</u>	<u>5.4</u>	2 J	<u>7.5</u>
1,1-Dichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Benzene	1		10 U	5.0 U	5.0 U	5.0 U	<u>2.6</u>	4.0 U	5.0 U	4.0 U
Chloroethane	5		<u>79</u>	<u>83</u>	<u>50</u>	<u>34</u>	<u>10</u>	4.0 U	5.0 U	4.0 U
cis-1,2-Dichloroethene	5		10 U	<u>16</u>	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Ethylbenzene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Tetrachloroethene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Toluene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Trichloroethene	5		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Vinyl chloride	2		10 U	5.0 U	5.0 U	5.0 U	1.0 U	4.0 U	5.0 U	4.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-5-OB		AGM-5-OB		AGM-5-OB		AGM-5-OB		AGM-5-OB		AGM-5-OB		AGM-5-OB	
			9/14/2018		9/12/2019		10/28/2020		9/21/2021		8/31/2022		9/22/2023		9/24/2024	
			5		5		2		4		4		4		4	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
1,1-Dichloroethane	5		<u>11</u>		<u>11</u>		2.9		<u>5.9</u>		3.6	J	2.3	J	3.0	J
1,1-Dichloroethene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Benzene	1		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Chloroethane	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
cis-1,2-Dichloroethene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Ethylbenzene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Tetrachloroethene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Toluene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Trichloroethene	5		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Vinyl chloride	2		5.0	U	5.0	U	2.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-5-SB 7/27/2010 5	AGM-5-SB 7/6/2011 5	AGM-5-SB 7/25/2012 5	AGM-5-SB 7/9/2013 5	AGM-5-SB 7/8/2014 4	AGM-5-SB 7/8/2014 1 DUP	AGM5-SB 7/29/2015 2	AGM5-SB 9/30/2016 5	
Constituent (µg/L)	(µg/L)										
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	5		<u>73</u>	<u>67</u>	<u>29</u>	<u>41</u>	<u>27</u>	<u>27</u>	<u>14</u>	5.0	U
1,1-Dichloroethane	5		<u>200</u>	<u>230</u>	<u>170</u>	<u>160</u>	<u>160</u>	<u>160</u> D	<u>110</u>	<u>95</u>	
1,1-Dichloroethene	5		<u>40</u>	<u>69</u>	<u>11</u>	<u>48</u>	<u>26</u>	<u>26</u>	<u>9.3</u>	5.0	U
Benzene	1		<u>5.8</u>	5.0 U	5.0 U	5.0 U	4.0 U	<u>1.2</u>	2.0 U	5.0 U	
Chloroethane	5		<u>17</u>	<u>28</u>	<u>31</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>8.2</u>	5.0 U	
cis-1,2-Dichloroethene	5		<u>14</u>	<u>9</u>	<u>6.4</u>	<u>11</u>	<u>9.2</u>	<u>9.1</u>	4.8	4.1 J	
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U	1.0 U	2.0 U	5.0 U	
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U	1.0 U	2.0 U	5.0 U	
Toluene	5		5.0 U	5.0 U	5.0 U	5.0 U	4.0 U	1.0 U	2.0 U	5.0 U	
Trichloroethene	5		<u>32</u>	<u>32</u>	<u>6.1</u>	<u>22</u>	<u>12</u>	<u>12</u>	3.5	5.0 U	
Vinyl chloride	2		<u>57</u>	<u>57</u>	<u>22</u>	<u>30</u>	<u>23</u>	<u>21</u>	<u>15</u>	<u>16</u>	
Cyanide - Total	200		NA	NA	NA	70	58	63	65	110	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-5-SB		AGM-5-SB		AGM-5-SB		AGM-5-SB		AGM-5-SB		AGM-5-SB		AGM-5-SB		AGM-5-SB	
			9/21/2017		9/14/2018		9/12/2019		5/20/2020		10/29/2020		3/25/2021		9/22/2021		3/30/2022	
			5		2		2		5		2		5		2		2	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		4.5	J	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
1,1-Dichloroethane	5		<u>110</u>		<u>100</u>		<u>75</u>		<u>59</u>		<u>64</u>		<u>27</u>		<u>16</u>		<u>27</u>	
1,1-Dichloroethene	5		5.0	U	1.7	J	1.6	J	5.0	U	2.0	U	5.0	U	2.0	U	1.4	J
Benzene	1		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
Chloroethane	5		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	4.9		2.0	U
cis-1,2-Dichloroethene	5		5.0	U	4.7		3.9		5.0	U	3.0		5.0	U	2.0	U	2.0	U
Ethylbenzene	5		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
Tetrachloroethene	5		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
Toluene	5		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
Trichloroethene	5		5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U
Vinyl chloride	2		<u>10</u>		<u>17</u>		<u>8.6</u>		5.0	U	<u>5.9</u>		5.0	U	<u>3.0</u>		1.9	J
Cyanide - Total	200		92		89		130	J	NA		94	J	NA		75		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-5-SB 8/31/2022 2	AGM-5-SB 3/9/2023 5	AGM-5-SB 9/22/2023 5	AGM-5-SB 3/20/2024 2	AGM-5-SB 9/24/2024 2
Constituent (µg/L)	(µg/L)						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5		<u>30</u>	<u>3.5</u> J	<u>20</u>	<u>10</u>	<u>13</u>
1,1-Dichloroethene	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Benzene	1		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Chloroethane	5		<u>10</u>	5.0 U	<u>15</u>	2.1 U	<u>11</u>
cis-1,2-Dichloroethene	5		2.3	5.0 U	5.0 U	2.0 U	2.1
Ethylbenzene	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Tetrachloroethene	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Toluene	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Trichloroethene	5		2.0 U	5.0 U	5.0 U	2.0 U	2.0 U
Vinyl chloride	2		<u>7.9</u>	5.0 U	<u>6.7</u>	<u>2.1</u>	<u>6.9</u>
Cyanide - Total	200		71	NA	110	NA	120

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-6-SB 7/28/2010 5	AGM-6-SB 7/7/2011 5	AGM-6-SB 7/24/2012 5	AGM-6-SB 7/10/2013 5	AGM-6-SB 7/9/2014 5	AGM-6-SB 7/9/2014 5	AGM-6-SB 7/27/2015 2
Constituent (µg/L)	(µg/L)							DUP	
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
1,1-Dichloroethane	5		<u>16</u>	<u>9.7</u>	<u>15</u>	<u>31</u>	<u>36</u>	<u>35</u>	<u>75</u>
1,1-Dichloroethene	5		4.4 J	2.3 J	4 J	<u>12</u>	<u>12</u>	<u>12</u>	<u>16</u>
Benzene	1		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
Chloroethane	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
cis-1,2-Dichloroethene	5		<u>13</u>	<u>9</u>	<u>15</u>	<u>27</u>	<u>25</u>	<u>25</u>	<u>39</u>
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
Trichloroethene	5		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.1
Vinyl chloride	2		<u>14</u>	<u>7.5</u>	<u>14</u>	<u>19</u>	<u>17</u>	<u>17</u>	<u>27</u>
Cyanide - Total	200		<u>322</u>	<u>220</u>	<u>300</u>	<u>290</u>	<u>270</u>	NA	<u>390</u>

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB			
		Sample Date:	9/28/2016		9/19/2017		9/19/2017		9/11/2018		9/9/2019		5/20/2020		10/27/2020		3/24/2021	
		Dilution Factor:	1		2		1		2		2		2		2		2	
			DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	5		<u>28</u>		<u>38</u>		<u>40</u>		<u>20</u>		<u>15</u>		<u>16</u>		<u>16</u>		<u>27</u>	
1,1-Dichloroethene	5		<u>6.3</u>		<u>5.4</u>		<u>5.1</u>		3.3		2.1		2.2		1.1	J	2.2	
Benzene	1		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
cis-1,2-Dichloroethene	5		<u>29</u>		<u>17</u>		<u>18</u>		<u>17</u>		<u>13</u>		<u>7.7</u>		<u>8.1</u>		<u>10</u>	
Ethylbenzene	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Toluene	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	5		1.0	U	2.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Vinyl chloride	2		<u>23</u>		<u>18</u>		<u>20</u>		<u>20</u>		<u>16</u>		<u>9</u>		<u>9.7</u>		<u>14</u>	
Cyanide - Total	200		<u>420</u>		<u>260</u>		NA		<u>280</u>		<u>230</u>	J	NA		<u>200</u>	J	NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB		AGM-6-SB	
			9/22/2021		3/30/2022		8/30/2022		3/8/2023		9/26/2023		3/20/2024		9/26/2024	
			2	2	2	1	2	1	10							
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
1,1-Dichloroethane	5		<u>12</u>		<u>8.5</u>		<u>9</u>		<u>18</u>		<u>7.7</u>		<u>10</u>		<u>6.7</u>	J
1,1-Dichloroethene	5		2.0		2.0	U	2.0	U	1.0		2.0	U	0.29	J	10.0	U
Benzene	1		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
Chloroethane	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	UJ	10.0	U
cis-1,2-Dichloroethene	5		<u>8.4</u>		<u>6.7</u>		<u>5.6</u>		<u>9.9</u>		<u>6.1</u>		<u>6.8</u>		10.0	U
Ethylbenzene	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
Tetrachloroethene	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
Toluene	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
Trichloroethene	5		2.0	U	2.0	U	2.0	U	1.0	U	2.0	U	1.0	U	10.0	U
Vinyl chloride	2		<u>11</u>		<u>8.3</u>		<u>7.2</u>		<u>14</u>		<u>6.7</u>		<u>7.1</u>	J	10.0	U
Cyanide - Total	200		<u>240</u>		NA		<u>280</u>		NA		<u>320</u>		NA		<u>380</u>	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-7-OB 7/29/2010 1	AGM-7-OB 7/8/2011 1	AGM-7-OB 7/25/2012 1	AGM-7-OB 7/8/2013 1	AGM-7-OB 7/7/2014 1	AGM-7-OB 7/27/2015 1	AGM-7-OB 9/29/2016 1	AGM-7-OB 9/19/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		2.7	5.6	12	13	3.5	22	8.1	12
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		9.7	19	39	4.1	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		164	210	990	140	93	150	370	170 J

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-7-OB		AGM-7-OB		AGM-7-OB		AGM-7-OB		AGM-7-OB		AGM-7-OB		AGM-7-OB		AGM-7-OB	
			9/13/2018		9/11/2019		5/20/2020		10/29/2020		10/29/2020		3/25/2021		9/24/2021		3/29/2022	
			1		1		1		1		1		4		1		1	
			DUP															
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
1,1-Dichloroethane	5		2		2.3		2.6		2.3		2		<u>15</u>		1.5		3.3	J
1,1-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Benzene	1		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Chloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Ethylbenzene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Tetrachloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Toluene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Trichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Vinyl chloride	2		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U	1.0	U	1.0	UJ
Cyanide - Total	200		120		93	J	NA		100	J	95	J	NA		74	J	NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-7-OB 9/2/2022 1	AGM-7-OB 3/8/2023 4	AGM-7-OB 9/27/2023 4	AGM-7-OB 3/21/2024 1	AGM-7-OB 9/26/2024 10
Constituent (µg/L)	(µg/L)						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
1,1-Dichloroethane	5		0.54 J	4.0 U	4.3	0.57 J	6.3 J
1,1-Dichloroethene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Benzene	1		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Chloroethane	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
cis-1,2-Dichloroethene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Ethylbenzene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Tetrachloroethene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Toluene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Trichloroethene	5		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Vinyl chloride	2		1.0 U	4.0 U	4.0 U	1.0 U	10.0 U
Cyanide - Total	200		76	NA	130	NA	110

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-7-SB 7/29/2010 10	AGM-7-SB 7/8/2011 20	AGM-7-SB 7/25/2012 10	AGM-7-SB 7/8/2013 5	AGM-7-SB 7/8/2014 4	AGM-7-SB 7/27/2015 4	AGM-7-SB 9/29/2016 5	AGM-7-SB 9/29/2016 5 DUP
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		<u>360</u>	<u>730</u>	D	<u>230</u>	<u>71</u>	<u>58</u>	<u>70</u>	<u>69</u>
1,1-Dichloroethane	5		<u>290</u>	<u>260</u>		<u>320</u>	<u>140</u>	<u>150</u>	<u>130</u>	<u>250</u>
1,1-Dichloroethene	5		<u>48</u>	<u>120</u>		<u>48</u>	<u>9.1</u>	<u>8.2</u>	<u>6.9</u>	<u>11</u>
Benzene	1	U	10	20	U	10	5.0	4.0	4.0	5.0
Chloroethane	5		<u>23</u>	<u>20</u>		<u>22</u>	<u>21</u>	<u>33</u>	<u>37</u>	<u>89</u>
cis-1,2-Dichloroethene	5		<u>7.4</u>	<u>13</u>	10	U	5.0	4.0	4.0	5.0
Ethylbenzene	5	U	10	20	U	10	5.0	4.0	4.0	5.0
Tetrachloroethene	5		3.4	20	U	10	5.0	4.0	4.0	5.0
Toluene	5	U	10	20	U	10	5.0	4.0	4.0	5.0
Trichloroethene	5		<u>18</u>	<u>23</u>		<u>11</u>	2.8	J	3.0	J
Vinyl chloride	2		<u>17</u>	<u>21</u>		<u>17</u>	<u>8</u>	<u>7.4</u>	<u>6.4</u>	<u>10</u>
Cyanide - Total	200		<u>15100</u>	D	<u>8100</u>	<u>6400</u>	<u>4500</u>	<u>4200</u>	<u>3300</u>	<u>7900</u>

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-7-SB 9/18/2017 5	AGM-7-SB 9/18/2017 20	AGM-7-SB 9/13/2018 5	AGM-7-SB 9/11/2019 5	AGM-7-SB 5/20/2020 5	AGM-7-SB 10/29/2020 5	AGM-7-SB 3/24/2021 5	AGM-7-SB 9/27/2021 5
	(µg/L)		DUP							
	Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	5		<u>48</u>	NA	<u>54</u>	<u>34</u>	<u>84</u>	<u>21</u>	<u>37</u>	<u>13</u>
1,1-Dichloroethane	5		<u>120</u>	NA	<u>190</u>	<u>150</u>	<u>140</u>	<u>120</u>	<u>120</u>	<u>110</u>
1,1-Dichloroethene	5		1.5	J	NA	4.2	J	5.0	U	5.0
Benzene	1		5.0	U	NA	5.0	U	5.0	U	5.0
Chloroethane	5		<u>46</u>	NA	<u>71</u>	<u>71</u>	<u>82</u>	<u>55</u>	<u>68</u>	<u>99</u>
cis-1,2-Dichloroethene	5		5.0	U	NA	5.0	U	5.0	U	5.0
Ethylbenzene	5		5.0	U	NA	5.0	U	5.0	U	5.0
Tetrachloroethene	5		5.0	U	NA	5.0	U	5.0	U	5.0
Toluene	5		5.0	U	NA	5.0	U	5.0	U	5.0
Trichloroethene	5		5.0	U	NA	5.0	U	5.0	U	5.0
Vinyl chloride	2		<u>6.9</u>	NA	<u>7.3</u>	U	5.0	U	5.0	U
Cyanide - Total	200		<u>2900</u>	<u>4300</u>	<u>8000</u>	<u>5900</u>	J	NA	<u>3600</u>	J

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC	Well ID:	AGM-7-SB	AGM-7-SB	AGM-7-SB	AGM-7-SB	AGM-7-SB	AGM-7-SB						
	Groundwater	Sample Date:	3/29/2022	9/2/2022	3/8/2023	9/27/2023	3/21/2024	9/26/2024						
	Quality													
	Standards	Dilution Factor:	5	5	1	1	1	10						
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	5		<u>31</u>	5.0	U	3.1	1.0	U	1.0	U	10.0	U		
1,1-Dichloroethane	5		<u>120</u>	<u>71</u>		<u>66</u>	<u>16</u>		<u>38</u>		<u>35</u>			
1,1-Dichloroethene	5		3.1	J	5.0	U	0.73	J	1.0	U	0.36	J	10.0	U
Benzene	1		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	10.0	U
Chloroethane	5		<u>98</u>	<u>80</u>		<u>53</u>	<u>47</u>		<u>19</u>	J	<u>31</u>			
cis-1,2-Dichloroethene	5		5.0	U	5.0	U	0.88	J	1.0	U	0.90	J	10.0	U
Ethylbenzene	5		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	10.0	U
Tetrachloroethene	5		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	10.0	U
Toluene	5		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	10.0	U
Trichloroethene	5		5.0	U	5.0	U	1.0	U	1.0	U	1.0	U	10.0	U
Vinyl chloride	2		<u>4.5</u>	J	5.0	U	1.8		1.1		1.0	UJ	10.0	U
Cyanide - Total	200		NA	6700		NA	380		NA		3700			

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-8-OB 7/29/2010 10	AGM-8-OB 7/8/2011 5	AGM-8-OB 7/24/2012 10	AGM-8-OB 7/10/2013 2	AGM-8-OB 7/11/2014 2	AGM-8-OB 7/29/2015 1	AGM-8-OB 9/29/2016 1	AGM-8-OB 9/21/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		<u>18</u>	<u>60</u>	<u>57</u>	2.4	<u>12</u>	<u>7.9</u>	<u>63</u>	1.0 U
1,1-Dichloroethene	5		10 U	4.7 J	10 U	2.0 U	2.2	0.5 J	<u>14</u>	1.0 U
Benzene	1		10 U	5.0 U	10 U	2.0 U	<u>1.5</u> J	1.0 U	0.58 J	1.0 U
Chloroethane	5		<u>13</u>	<u>19</u>	<u>16</u>	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	4.4	1.0 U
Ethylbenzene	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		10 U	5.0 U	10 U	2.0 U	2.0 U	1.0 U	4.6	1.0 U
Vinyl chloride	2		<u>8</u>	<u>9.5</u>	10 U	2.0 U	2.0 U	1.9	<u>16</u>	1.0 U
Cyanide - Total	200		85.5	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-8-OB		AGM-8-OB		AGM-8-OB		AGM-8-OB		AGM-8-OB		AGM-8-OB		AGM-8-OB		AGM-8-OB	
			9/12/2018		9/11/2019		5/20/2020		10/28/2020		3/24/2021		9/23/2021		3/30/2022		9/2/2022	
			2		2		1		1		1		1		1		1	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5		<u>12</u>		<u>27</u>		1.8		<u>5.6</u>		<u>24</u>		<u>34</u>		4.8		<u>25</u>	
1,1-Dichloroethene	5		2.0	U	4.8		1.0	U	0.9	J	3.1		1.7		1.0	U	1.7	
Benzene	1		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	0.64	J	1.0	U	0.64	J
Chloroethane	5		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		2.0	U	1.6	J	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	5		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	5		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	5		2.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	5		2.0	U	2.0	U	1.0	U	1.0	U	1.5		1.3		1.0	U	0.91	J
Vinyl chloride	2		2.0	U	<u>6.6</u>		1.0	U	1.9		<u>2.1</u>		<u>3.1</u>		1.1		<u>6</u>	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-8-OB 3/9/2023 2	AGM-8-OB 9/26/2023 2	AGM-8-OB 3/21/2024 2	AGM-8-OB 9/25/2024 2
Constituent (µg/L)	(µg/L)					
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	5		2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5		<u>23</u>	<u>22</u>	<u>11</u>	<u>18</u>
1,1-Dichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U
Benzene	1		2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5		1.9 J	2.0 U	1.1 J	2.0 U
cis-1,2-Dichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	5		2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U
Toluene	5		2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	2		2.0 U	2.0 U	2.0 U	2.0 U
Cyanide - Total	200		NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-8-SB 7/28/2010 4	AGM-8-SB 7/6/2011 5	AGM-8-SB 7/24/2012 4	AGM-8-SB 7/10/2013 1	AGM-8-SB 7/11/2014 2	AGM-8-SB 7/29/2015 1	AGM-8-SB 9/29/2016 10	AGM-8-SB 9/21/2017 10
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		4.0 U	5.0 U	4.0 U	1.0 U	2.0 U	1.0 U	10 U	10 UJ
1,1-Dichloroethane	5		<u>310</u>	<u>150</u>	4.0 U	1.0 U	2.0 U	<u>430</u> D	<u>320</u>	<u>350</u> J
1,1-Dichloroethene	5		<u>93</u>	<u>24</u>	4.0 U	1.0 U	2.0 U	<u>92</u>	<u>12</u>	<u>6.6</u> J
Benzene	1		4.0 U	5.0 U	4.0 U	1.0 U	2.0 U	0.7 J	10 U	10 UJ
Chloroethane	5		<u>16</u>	4.1 J	4.0 U	1.0 U	2.0 U	<u>8.7</u>	<u>29</u>	<u>34</u> J
cis-1,2-Dichloroethene	5		<u>100</u>	<u>27</u>	4.0 U	1.0 U	2.0 U	<u>180</u> D	<u>81</u>	<u>81</u> J
Ethylbenzene	5		4.0 U	5.0 U	4.0 U	1.0 U	2.0 U	1.0 U	10 U	10 UJ
Tetrachloroethene	5		4.0 U	5.0 U	4.0 U	1.0 U	2.0 U	1.0 U	10 U	10 UJ
Toluene	5		4.0 U	5.0 U	4.0 U	1.0 U	2.0 U	1.0 U	10 U	10 UJ
Trichloroethene	5		<u>76</u>	<u>43</u>	4.0 U	1.0 U	2.0 U	<u>39</u>	10 U	10 UJ
Vinyl chloride	2		<u>31</u>	<u>31</u>	4.0 U	1.0 U	2.0 U	<u>51</u>	<u>93</u>	<u>180</u> J
Cyanide - Total	200		42.2	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	AGM-8-SB		AGM-8-SB		AGM-8-SB		AGM-8-SB		AGM-8-SB		AGM-8-SB		AGM-8-SB		AGM-8-SB	
			9/12/2018		9/11/2019		5/20/2020		10/28/2020		3/24/2021		9/23/2021		3/30/2022		9/6/2022	
			10		10		10		10		10		4		4		4	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		10	U	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
1,1-Dichloroethane	5		<u>430</u>		<u>260</u>		<u>340</u>		<u>320</u>		<u>200</u>		<u>160</u>		<u>250</u>		<u>240</u>	
1,1-Dichloroethene	5		<u>29</u>		<u>6.9</u>	J	<u>5.3</u>	J	<u>8.1</u>	J	<u>5.1</u>	J	4.0	U	<u>8.7</u>		4.0	U
Benzene	1		10	U	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
Chloroethane	5		<u>8.3</u>	J	<u>19</u>		<u>18</u>		<u>25</u>		<u>13</u>		<u>74</u>		<u>74</u>		<u>77</u>	
cis-1,2-Dichloroethene	5		<u>93</u>		<u>55</u>		<u>41</u>		<u>59</u>		<u>27</u>		4.0	U	<u>71</u>		<u>62</u>	
Ethylbenzene	5		10	U	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
Tetrachloroethene	5		10	U	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
Toluene	5		10	U	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
Trichloroethene	5		<u>6.8</u>	J	10	U	10	U	10	U	10	U	4.0	U	4.0	U	4.0	U
Vinyl chloride	2		<u>100</u>		<u>110</u>		<u>69</u>		<u>72</u>		<u>32</u>		<u>5.1</u>		<u>100</u>		<u>130</u>	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	AGM-8-SB 3/9/2023 10	AGM-8-SB 9/26/2023 4	AGM-8-SB 3/21/2024 2	AGM-8-SB 9/25/2024 2
Constituent (µg/L)	(µg/L)					
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	5		10 U	4.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5		<u>110</u>	<u>140</u>	<u>100</u>	<u>92</u>
1,1-Dichloroethene	5		10 U	3.9 J	4.2	2.0 U
Benzene	1		10 U	4.0 U	2.0 U	2.0 U
Chloroethane	5		<u>40</u>	<u>21</u>	<u>37</u>	<u>13</u>
cis-1,2-Dichloroethene	5		<u>18</u>	<u>21</u>	<u>21</u>	<u>9.3</u>
Ethylbenzene	5		10 U	4.0 U	2.0 U	2.0 U
Tetrachloroethene	5		10 U	4.0 U	2.0 U	2.0 U
Toluene	5		10 U	4.0 U	2.0 U	2.0 U
Trichloroethene	5		10 U	4.0 U	2.0 U	2.0 U
Vinyl chloride	2		<u>24</u>	<u>41</u>	<u>24</u>	<u>17</u>
Cyanide - Total	200		NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW-99C(I) 07/27/2010 10	MW99-C(I) 7/8/2011 5	MW99-C(I) 7/25/2012 5	MW99-C(I) 7/9/2013 4	MW99-C(I) 7/8/2014 5	MW99-C(I) 7/28/2015 2	MW99-C(I) 9/29/2016 5	MW99-C(I) 9/21/2017 2
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
1,1-Dichloroethane	5		<u>17</u>	<u>41</u>	<u>7.6</u>	<u>36</u>	<u>22</u>	<u>6</u>	<u>11</u>	<u>5.9</u>
1,1-Dichloroethene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Benzene	1		10 U	5.0 U	5.0 U	<u>4.1</u>	5.0 U	2.0 U	5.0 U	2.0 U
Chloroethane	5		<u>230</u>	<u>260</u>	<u>180</u>	<u>210</u>	<u>74</u>	<u>81</u>	<u>110</u>	<u>77</u>
cis-1,2-Dichloroethene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Ethylbenzene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Tetrachloroethene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Toluene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Trichloroethene	5		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Vinyl chloride	2		10 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	5.0 U	2.0 U
Cyanide - Total	200		<u>350</u>	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC	Well ID:	MW99-C(I)		MW99-C(I)		MW99-C(I)		MW99-C(I)		MW99-C(I)		MW99-C(I)		MW99-C(I)	
	Groundwater	Sample Date:	9/14/2018		9/12/2019		10/29/2020		9/23/2021		8/31/2022		9/22/2023		9/27/2024	
	Quality															
Standards		Dilution Factor:	1	4	1	2	2	2	2	2	2	2	2	2	10	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
1,1-Dichloroethane	5		6.6		5.3		3.2		4.3		4.9		3.8		10.0	U
1,1-Dichloroethene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Benzene	1		0.89	J	4.0	U	0.8	J	2.0	U	2.0	U	2.0	U	10.0	U
Chloroethane	5		54		7.4		1.3		2.0	U	2.0	U	2.0	U	10.0	U
cis-1,2-Dichloroethene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Ethylbenzene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Tetrachloroethene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Toluene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Trichloroethene	5		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Vinyl chloride	2		1.0	U	4.0	U	1.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW-99C(S) 07/27/2010 5	MW-99C(S) 7/8/2011 5	MW99-C(S) 7/25/2012 5	MW99-C(S) 7/9/2013 4	MW99-C(S) 7/8/2014 5	MW99-C(S) 7/28/2015 2	MW99-C(S) 7/28/2015 1 DUP	MW99-C(S) 9/29/2016 2
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
1,1-Dichloroethane	5		<u>12</u>	<u>12</u>	<u>19</u>	<u>22</u>	3.6 J	<u>6.8</u>	<u>8.3</u>	<u>36</u>
1,1-Dichloroethene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Benzene	1		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Chloroethane	5		<u>34</u>	<u>25</u>	<u>22</u>	<u>7.4</u>	5.0 U	2.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Ethylbenzene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Tetrachloroethene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Toluene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Trichloroethene	5		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Vinyl chloride	2		5.0 U	5.0 U	5.0 U	4.0 U	5.0 U	2.0 U	1.0 U	2.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID:	MW99-C(S)		MW-99C(S)		MW99-C(S)		MW99-C(S)		MW99-C(S)		MW99-C(S)		MW99-C(S)		MW99-C(S)	
		Sample Date:	9/21/2017		9/13/2018		9/12/2019		10/29/2020		9/23/2021		8/31/2022		9/22/2023		9/26/2024	
		Dilution Factor:	1		4		2		2		2		2		2		10	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
1,1-Dichloroethane	5		<u>32</u>		<u>46</u>		<u>48</u>		<u>40</u>		<u>32</u>		<u>28</u>		<u>13</u>		<u>15</u>	
1,1-Dichloroethene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Benzene	1		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Chloroethane	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
cis-1,2-Dichloroethene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Ethylbenzene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Tetrachloroethene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Toluene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Trichloroethene	5		1.0	U	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Vinyl chloride	2		0.98	J	4.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID:	MW-99D(I)		MW-99D(I)		MW99-D(I)		MW99-D(I)		MW99-D(I)		MW99-D(I)		MW99-D(I)	
		Sample Date:	7/27/2010	7/27/2010	7/12/2011	7/26/2012	7/12/2013	7/7/2014	7/27/2015	7/27/2015						
		Dilution Factor:	5	1	5	5	1	1	1	1						
Constituent (µg/L)	(µg/L)		DUP												DUP	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5		5.0	U	2.4		5.0	U	5.0	U	2.2		1.6		1.6	
1,1-Dichloroethene	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Benzene	1		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Toluene	5		5.0	U	1.0	U	5.0	U	3.5	BJ	1.0	U	1.0	U	1.0	U
Trichloroethene	5		5.0	U	1.0	U	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	2		5.0	U	0.93	J	5.0	U	5.0	U	1.0	U	1.0	U	1.0	U
Cyanide - Total	200		170		307		260		320		260		220		240	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-D(I) 9/28/2016 1	MW99-D(I) 9/20/2017 1	MW99-D(I) 9/13/2018 1	MW99-D(I) 9/12/2019 1	MW99-D(I) 10/29/2020 1	MW99-D(I) 9/21/2021 2	MW99-D(I) 8/31/2022 2	MW99-D(I) 9/28/2023 2
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5		1.5	1.0 U	0.58 J	0.55 J	1.2	0.96 J	0.93 J	1.1 J
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Cyanide - Total	200		320	210	190	280 J	220 J	310	290	300

Table 7

**Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York**

NYSDEC Groundwater Quality Standards		Well ID: MW99-D(I) Sample Date: 9/27/2024 Dilution Factor: 10	
Constituent (µg/L)	(µg/L)		
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	5	10.0	U
1,1-Dichloroethane	5	10.0	U
1,1-Dichloroethene	5	10.0	U
Benzene	1	10.0	U
Chloroethane	5	10.0	U
cis-1,2-Dichloroethene	5	10.0	U
Ethylbenzene	5	10.0	U
Tetrachloroethene	5	10.0	U
Toluene	5	10.0	U
Trichloroethene	5	10.0	U
Vinyl chloride	2	10.0	U
Cyanide - Total	200	360	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW-99E(D) 7/28/2010 1	MW99-F(D) 7/28/2010 5	MW99-F(D) 7/12/2011 5	MW99-F(D) 7/23/2012 5	MW99-F(D) 7/11/2013 1	MW99-F(D) 7/9/2014 1	MW99-F(D) 7/29/2015 1	MW99-F(D) 7/29/2015 1 DUP
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		0.96 J	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	3.8 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)		MW99-F(D)	
			9/30/2016		9/20/2017		9/13/2018		9/12/2019		10/27/2020		9/23/2021		9/1/2022		9/28/2023		10/1/2024	
			1		1		4		1		1		1		1		1		1	
Volatile Organic Compounds (VOCs)																				
1,1,1-Trichloroethane	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Benzene	1		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	5		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	2		1.0	U	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-F(I) 7/28/2010 1	MW99-F(I) 7/12/2011 5	MW99-F(I) 7/23/2012 5	MW99-F(I) 7/11/2013 1	MW99-F(I) 7/9/2014 4	MW99-F(I) 7/29/2015 1	MW99-F(I) 9/30/2016 4	MW99-F(I) 9/20/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
1,1-Dichloroethane	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.8	2.4 J	3.8
1,1-Dichloroethene	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Benzene	1		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Chloroethane	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.1	4.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	<u>5.6</u>	<u>11</u>	2.7	4.0 U	4.7	4.8	<u>5.5</u>
Ethylbenzene	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Tetrachloroethene	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Toluene	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Trichloroethene	5		1.0 U	5.0 U	5.0 U	1.0 U	4.0 U	1.0 U	4.0 U	1.0 U
Vinyl chloride	2		1.0 U	<u>11</u>	<u>42</u>	<u>3.3</u>	4 U	<u>27</u>	<u>17</u>	<u>27</u>
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-F(I)		MW99-F(I)		MW-99-F(I)		MW-99-F(I)		MW-99-F(I)		MW-99-F(I)		MW-99-F(I)	
			9/13/2018		9/12/2019		10/28/2020		9/24/2021		9/1/2022		9/28/2023		10/1/2024	
			1		1		1		1		1		1		4	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
1,1-Dichloroethane	5		3.6		2.5		<u>5.9</u>		<u>8.9</u>		<u>6.9</u>		3.9		3.1	J
1,1-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
Benzene	1		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
Chloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
cis-1,2-Dichloroethene	5		<u>7.1</u>		<u>5.7</u>		<u>7.1</u>		<u>18</u>		<u>9.3</u>		2.4		4.0	U
Ethylbenzene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
Tetrachloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
Toluene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0	U
Trichloroethene	5		1.0	U	1.0	U	1.0	U	3.3		0.61	J	1.0	U	4.0	U
Vinyl chloride	2		<u>27</u>	J	<u>22</u>		<u>35</u>		<u>49</u>		<u>32</u>		<u>14</u>		<u>9.2</u>	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-G(D) 7/29/2010 10	MW99-G(D) 7/12/2011 5	MW99-G(D) 7/26/2012 5	MW99-G(D) 7/9/2013 2	MW99-G(D) 7/9/2014 2	MW99-G(D) 7/29/2015 2	MW99-G(D) 9/28/2016 1	MW99-G(D) 9/18/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		<u>15</u>	<u>7.1</u>	<u>6.1</u>	<u>6.3</u>	<u>6.6</u>	<u>6.8</u>	<u>5.6</u>	<u>5.4</u>
1,1-Dichloroethene	5		10 U	2.2 J	2.4 J	1.9 J	1.4 J	1.4 J	0.62 J	0.45 J
Benzene	1		<u>6.6</u> J	<u>7</u>	<u>10</u>	<u>8.6</u>	<u>9.6</u>	<u>8.3</u>	<u>5.9</u>	<u>5</u>
Chloroethane	5		<u>15</u>	<u>12</u>	<u>17</u>	<u>9</u>	<u>11</u>	<u>5.8</u>	2.5	1
cis-1,2-Dichloroethene	5		10 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Ethylbenzene	5		10 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	5		10 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Toluene	5		<u>100</u>	<u>74</u>	<u>64</u> B	<u>25</u>	<u>12</u>	<u>6.3</u>	2.3 UB	1.4
Trichloroethene	5		<u>5.5</u> J	4.1 J	3.2 J	2.2	1.9 J	1.4 J	0.68 J	0.54 J
Vinyl chloride	2		10 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-G(D)		MW99-G(D)		MW99-G(D)		MW99-G(D)		MW99-G(D)		MW99-G(D)		MW99-G(D)	
			9/11/2018		9/10/2019		10/30/2020		9/22/2021		8/31/2022		9/28/2023		9/26/2024	
			1		1		2		2		2		2		2	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		1.0	U	1.0	UJ	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
1,1-Dichloroethane	5		5.5		5.6	J	3.6		4.4	J	3.0		3.1		10.0	U
1,1-Dichloroethene	5		1.0	U	0.58	J	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Benzene	1		3.4		3.6		3.8		5.3	J	4.8		5.6		5.0	J
Chloroethane	5		1.0	U	0.8	J	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	UJ	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Ethylbenzene	5		1.0	U	1.0	UJ	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Tetrachloroethene	5		1.0	U	1.0	UJ	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Toluene	5		0.87	J	0.74	J	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Trichloroethene	5		1.0	U	0.55	J	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Vinyl chloride	2		1.0	U	1.0	UJ	2.0	U	2.0	UJ	2.0	U	2.0	U	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-G(I) 7/29/2010 20	MW99-G(I) 7/12/2011 10	MW99-G(I) 7/26/2012 10	MW99-G(I) 7/9/2013 5	MW99-G(I) 7/9/2014 5	MW99-G(I) 7/29/2015 5	MW99-G(I) 9/28/2016 10	MW99-G(I) 9/18/2017 5
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1-Dichloroethane	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
1,1-Dichloroethene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Benzene	1		20 U	10 U	10 U	<u>2.3</u> J	<u>4.4</u> J	5.0 U	10 U	5.0 U
Chloroethane	5		<u>120</u>	<u>120</u>	<u>53</u>	<u>52</u>	<u>110</u>	<u>39</u>	<u>28</u>	<u>15</u>
cis-1,2-Dichloroethene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Ethylbenzene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Tetrachloroethene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Toluene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Trichloroethene	5		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Vinyl chloride	2		20 U	10 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-G(I)		MW99-G(I)		MW99-G(I)		MW99-G(I)		MW99-G(I)		MW99-G(I)		MW99-G(I)	
			9/11/2018		9/10/2019		10/30/2020		9/22/2021		8/30/2022		9/28/2023		9/26/2024	
			5		5		4		2		2		2		10	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
1,1-Dichloroethane	5		5.0	U	5.0	U	2.7	J	4.9		4.8		3.7		10.0	U
1,1-Dichloroethene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Benzene	1		5.0	U	5.0	U	<u>2.5</u>	J	<u>2.5</u>		2.0	U	2.0	U	10.0	U
Chloroethane	5		4.5	J	5.0	U	<u>7.2</u>		2.6		2.6		2.0	U	10.0	U
cis-1,2-Dichloroethene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Ethylbenzene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Tetrachloroethene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Toluene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Trichloroethene	5		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Vinyl chloride	2		5.0	U	5.0	U	4.0	U	2.0	U	2.0	U	2.0	U	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-G(S) 7/29/2010 10	MW99-G(S) 7/12/2011 10	MW99-G(S) 7/26/2012 10	MW99-G(S) 7/26/2012 10	MW99-G(S) 7/9/2013 2	MW99-G(S) 7/9/2014 2	MW99-G(S) 7/29/2015 2	MW99-G(S) 9/28/2016 10
Constituent (µg/L)	(µg/L)					DUP				
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
1,1-Dichloroethane	5		10 U	<u>7.2</u> J	10 U	4.3 J	<u>18</u>	<u>18</u>	<u>15</u>	<u>31</u>
1,1-Dichloroethene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
Benzene	1		10 U	10 U	10 U	10 U	<u>1.4</u> J	2.0 U	<u>5.2</u>	10 U
Chloroethane	5		<u>58</u>	<u>28</u>	<u>10</u>	<u>8.6</u> J	<u>9.9</u>	<u>11</u>	2.7	10 U
cis-1,2-Dichloroethene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
Ethylbenzene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
Tetrachloroethene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
Toluene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	<u>270</u> D	10 U
Trichloroethene	5		10 U	10 U	10 U	10 U	2.0 U	2.0 U	2.0 U	10 U
Vinyl chloride	2		10 U	10 U	10 U	10 U	<u>2.3</u>	2.0 U	2.0 U	10 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)	
			9/18/2017		9/11/2018		9/10/2019		5/20/2020		10/30/2020		3/24/2021		9/22/2021		3/30/2022	
			10		4		4		5		4		10		4		4	
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
1,1-Dichloroethane	5		<u>14</u>		<u>13</u>	J	<u>5.2</u>		4.6	J	<u>10</u>		<u>7.6</u>	J	<u>9.9</u>		2.8	J
1,1-Dichloroethene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Benzene	1		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Chloroethane	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
cis-1,2-Dichloroethene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Ethylbenzene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Tetrachloroethene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Toluene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Trichloroethene	5		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Vinyl chloride	2		10	U	4.0	U	4.0	U	5.0	U	4.0	U	10	U	4.0	U	4.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID:	MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)		MW99-G(S)	
		Sample Date:	8/31/2022		3/8/2023		9/28/2023		3/20/2024		3/20/2024		9/26/2024	
		Dilution Factor:	4	4	4	4	4	4	10					
Constituent (µg/L)	(µg/L)		DUP											
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
1,1-Dichloroethane	5		3.7		3.0	J	4.0	U	1.9	J	4.0	U	10.0	U
1,1-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Benzene	1		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Chloroethane	5		4.0	U	4.0	U	4.0	U	4.0	UJ	4.0	UJ	10.0	U
cis-1,2-Dichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Ethylbenzene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Tetrachloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Toluene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Trichloroethene	5		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	10.0	U
Vinyl chloride	2		4.0	U	4.0	U	4.0	U	4.0	UJ	4.0	UJ	10.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(D) 7/27/2010 1	MW99-H(D) 7/11/2011 1	MW99-H(D) 7/26/2012 1	MW99-H(D) 7/11/2013 1	MW99-H(D) 7/11/2013 1	MW99-H(D) 7/10/2014 1	MW99-H(D) 7/28/2015 1	MW99-H(D) 9/27/2016 8
Constituent (µg/L)	(µg/L)						DUP			
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
1,1-Dichloroethane	5		<u>7.2</u>	<u>6.2</u>	1.4	4.8	4.9	4.4	3.8	8.0 U
1,1-Dichloroethene	5		3.1	2.5	0.52 J	1.5	1.5	1.1	1.0	8.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	8.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Trichloroethene	5		1.3	0.96 J	1.0 U	0.76 J	0.73 J	0.56 J	0.53 J	8.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID:	MW99-H(D)		MW99-H(D)		MW99-H(D)		MW99-H(D)		MW99-H(D)		MW99-H(D)		MW99-H(D)			
		Sample Date:	9/19/2017		9/12/2018		9/12/2019		9/12/2019		10/29/2020		9/24/2021		8/30/2022		9/22/2023	
		Dilution Factor:	8		2		1		1		1		1		1		1	
Constituent (µg/L)	(µg/L)	DUP																
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
1,1-Dichloroethane	5	8.0	U	2.0	U	0.73	J	0.76	J	0.9	J	0.79	J	0.47	J	0.61	J	
1,1-Dichloroethene	5	8.0	U	2.0	U	1.0	U	0.3	J	0.4	J	1.0	U	1.0	U	0.38	J	
Benzene	1	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	0.49	J	0.78	J	0.48	J	
Chloroethane	5	8.0	U	0.91	J	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
cis-1,2-Dichloroethene	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Ethylbenzene	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Tetrachloroethene	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Toluene	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Trichloroethene	5	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Vinyl chloride	2	8.0	U	2.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
Cyanide - Total	200	NA		NA		NA		NA		NA		NA		NA		NA		

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(D) 10/1/2024 2
Constituent (µg/L)	(µg/L)		
Volatile Organic Compounds (VOCs)			
1,1,1-Trichloroethane	5	2.0	U
1,1-Dichloroethane	5	2.0	U
1,1-Dichloroethene	5	2.0	U
Benzene	1	2.0	U
Chloroethane	5	2.0	U
cis-1,2-Dichloroethene	5	2.0	U
Ethylbenzene	5	2.0	U
Tetrachloroethene	5	2.0	U
Toluene	5	2.0	U
Trichloroethene	5	2.0	U
Vinyl chloride	2	2.0	U
Cyanide - Total	200	NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(I) 7/27/2010 5	MW99-H(I) 9/12/2018 1	MW99-H(I) 7/26/2012 1	MW99-H(I) 7/11/2013 1	MW99-H(I) 7/10/2014 1	MW99-H(I) 7/28/2015 2	MW99-H(I) 9/27/2016 1	MW99-H(I) 9/19/2017 2
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
1,1-Dichloroethane	5		<u>37</u>	<u>17</u>	<u>15</u>	<u>16</u>	<u>18</u>	<u>12</u>	4.5	<u>6</u>
1,1-Dichloroethene	5		<u>6.3</u>	2.6	1.8	2	1.5	0.8 J	1.0 U	2.0 U
Benzene	1		5.0 U	1.0 U	0.79 J	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
Chloroethane	5		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	5		5.0 U	2.7	1.4	1.6	1.8	2.0 U	0.89 J	2.0 U
Ethylbenzene	5		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
Tetrachloroethene	5		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
Toluene	5		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U
Trichloroethene	5		<u>8.6</u>	1.0 U	2.9	2.9	2.2	1.1 J	1.0 U	2.0 U
Vinyl chloride	2		<u>7.8</u>	1.0 U	<u>3.1</u>	<u>3.3</u>	<u>3.1</u>	<u>2.4</u>	1.0 U	2.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-H(I)		MW99-H(I)		MW99-H(I)		MW99-H(I)		MW99-H(I)		MW99-H(I)		MW99-H(I)		
			9/12/2018	9/12/2019	5/20/2020	5/20/2020	10/29/2020	3/24/2021	9/24/2021	3/30/2022							
			1	5	2	5	2	2	2	2							
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
1,1-Dichloroethane	5		2.4		2	J	3.2		3.2	J	2.2		2.2		2.1	J	
1,1-Dichloroethene	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Benzene	1		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Chloroethane	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
cis-1,2-Dichloroethene	5		1.1		5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Ethylbenzene	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Tetrachloroethene	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Toluene	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Trichloroethene	5		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Vinyl chloride	2		1.0	U	5.0	U	2.0	U	5.0	U	2.0	U	2.0	U	2.0	U	
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA		

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(I) 8/30/2022 2	MW99-H(I) 3/8/2023 2	MW99-H(I) 9/22/2023 2	MW99-H(I) 3/20/2024 2	MW99-H(I) 9/30/2024 10	MW99-H(I) 9/30/2024 10 DUP
Constituent (µg/L)	(µg/L)							
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
1,1-Dichloroethane	5		1.9 J	2.1	2.2	2.3	10.0 U	10.0 U
1,1-Dichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Benzene	1		2.0 U	<u>1.2</u> J	0.99 J	2.0 U	10.0 U	10.0 U
Chloroethane	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Ethylbenzene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Tetrachloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Toluene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Trichloroethene	5		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Vinyl chloride	2		2.0 U	2.0 U	2.0 U	2.0 U	10.0 U	10.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(S) 7/27/2010 1	MW99-H(S) 7/12/2011 5	MW99-H(S) 7/11/2013 1	MW99-H(S) 7/10/2014 1	MW99-H(S) 7/28/2015 1	MW99-H(S) 9/27/2016 --	MW99-H(S) 9/22/2017 2	MW99-H(S) 9/12/2018 --
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
1,1-Dichloroethane	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
1,1-Dichloroethene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Benzene	1		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Chloroethane	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
cis-1,2-Dichloroethene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Ethylbenzene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Tetrachloroethene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Toluene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Trichloroethene	5		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Vinyl chloride	2		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	NS	2.0 U	NS
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-H(S) 9/12/2019 --	MW99-H(S) 10/29/2020 --	MW99-H(S) 9/24/2021 --	MW99-H(S) 8/29/2022 --	MW99-H(S) 9/28/2023 --	MW99-H(S) 9/26/2024 --
Constituent (µg/L)	(µg/L)							
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	5		NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	5		NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	5		NS	NS	NS	NS	NS	NS
Benzene	1		NS	NS	NS	NS	NS	NS
Chloroethane	5		NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5		NS	NS	NS	NS	NS	NS
Ethylbenzene	5		NS	NS	NS	NS	NS	NS
Tetrachloroethene	5		NS	NS	NS	NS	NS	NS
Toluene	5		NS	NS	NS	NS	NS	NS
Trichloroethene	5		NS	NS	NS	NS	NS	NS
Vinyl chloride	2		NS	NS	NS	NS	NS	NS
Cyanide - Total	200		NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-I(I) 7/11/2011 1	MW99-I(I) 7/25/2012 1	MW99-I(I) 7/9/2013 1	MW99-I(I) 7/10/2014 1	MW99-I(I) 7/29/2015 1	MW99-I(I) 9/28/2016 1	MW99-I(I) 9/20/2017 1	MW99-I(I) 9/13/2018 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.6	0.72 J	1.0 U	1.0 U	0.5 J	0.46 J	0.53 J	1.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7

Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-I(I) 9/11/2019 1	MW99-I(I) 10/30/2020 1	MW99-I(I) 9/22/2021 1	MW99-I(I) 8/30/2022 2	MW99-I(I) 9/27/2023 2	MW99-I(I) 9/30/2024 10
Constituent (µg/L)	(µg/L)							
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
1,1-Dichloroethane	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	10.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-I(S) 7/11/2011 1	MW99-I(S) 7/25/2012 1	MW99-I(S) 7/9/2013 1	MW99-I(S) 7/10/2014 1	MW99-I(S) 7/29/2015 1	MW99-I(S) 9/28/2016 1	MW99-I(S) 9/20/2017 1	MW99-I(S) 9/13/2018 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5		3.5		1.9		1.0	U	1.0	U
1,1-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U
Benzene	1		1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	5		1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U
Toluene	5		1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	2		1.0	U	1.0	U	1.0	U	1.0	U
Cyanide - Total	200		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-I(S) 9/11/2019 1	MW99-I(S) 9/22/2021 1	MW99-I(S) 8/30/2022 1	MW99-I(S) 9/27/2023 1	MW99-I(S) 9/30/2024 10
Constituent (µg/L)	(µg/L)						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
1,1-Dichloroethane	5		0.58 J	0.4 J	1.0 U	0.45 J	10.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	10.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-J(I) 07/27/2010 1	MW99-J(I) 7/11/2011 1	MW99-J(I) 7/27/2012 1	MW99-J(I) 7/11/2013 1	MW99-J(I) 7/11/2014 1	MW99-J(I) 7/31/2015 1	MW99-J(I) 9/27/2016 1	MW99-J(I) 9/20/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	5.8 J	11	10 UJ	21	10 U

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-J(I) 9/13/2018 1	MW99-J(I) 9/11/2019 1	MW99-J(I) 10/30/2020 1	MW99-J(I) 9/22/2021 1	MW99-J(I) 8/29/2022 1	MW99-J(I) 9/21/2023 1	MW99-J(I) 9/21/2023 1	MW99-J(I) 9/25/2024 1	MW99-J(I) 9/25/2024 1
Constituent (µg/L)	(µg/L)								DUP		DUP
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		10 U	6.2 J	10 UJ	10 U	10 U	10 U	22 UB	5.3 UB	4.9 UB

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



	NYSDEC Groundwater Quality Standards	Well ID: Sample Date: Dilution Factor:	MW99-J(S) 07/27/2010 1	MW99-J(S) 7/11/2011 1	MW99-J(S) 7/27/2012 1	MW99-J(S) 7/12/2013 1	MW99-J(S) 7/11/2014 1	MW99-J(S) 7/31/2015 1	MW99-J(S) 9/28/2016 1	MW99-J(S) 9/19/2017 1
Constituent (µg/L)	(µg/L)									
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyanide - Total	200		NA	NA	NA	NA	NA	NA	NA	NA

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York



Constituent (µg/L)	NYSDEC Groundwater Quality Standards (µg/L)	Well ID: Sample Date: Dilution Factor:	MW99-J(S)		MW99-J(S)		MW99-J(S)		MW99-J(S)		MW99-J(S)		MW99-J(S)		MW99-J(S)	
			9/13/2018		9/11/2019		10/28/2020		9/22/2021		8/30/2022		9/22/2023		9/25/2024	
			1		1		1		1		1		1		1	
Volatile Organic Compounds (VOCs)																
1,1,1-Trichloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Benzene	1		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	5		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	2		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cyanide - Total	200		NA		NA		NA		NA		NA		NA		NA	

Table 7
Summary of Historical Target VOCs and Total Cyanide in Groundwater
Former 3M/Dyanacolor Facility
Brockport, New York

Notes:

This table summarizes the groundwater data from the annual monitoring events conducted between 2010 and 2024.

Groundwater data from quarterly or semi-annual monitoring events are not included except May 2020, March 2021, March 2022, March 2023, and March 2024 semi-annual monitoring events.

µg/L = micrograms per liter

DUP = duplicate sample

NA = not analyzed

NS = not sampled

NYSDEC = New York State Department of Environmental Conservation

B = Compound was found in the blank and in the sample.

D = Compound detected in a secondary dilution.

J = Associated value is an estimate.

U = Element was not detected at or above the reporting limit.

UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

14 = Bold and underline represents that concentration exceeded NYSDEC Groundwater Quality Standards.

Table 8
Summary of 1,4-Dioxane in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York



Sample Location Sampling Date Dilution Factor		AGM-1-OB		AGM-1-SB		AGM-1-IB		AGM-2-OB		AGM-2-SB		AGM-2-IB		AGM-3-OB		AGM-3-SB		AGM-3-IB	
		9/24/2024		9/24/2024		9/25/2024		9/26/2024		9/26/2024		9/25/2024		9/24/2024		9/27/2024		9/27/2024	
		1		5		1		1		1		1		1		50		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	34		220		0.20	U	7.1		17		0.23		84		590		150	

Sample Location		AGM-4-OB		AGM-4-IB		AGM-5-OB		AGM-5-SB		MW99-C(S)		MW99-C(I)		MW99-F(S)		MW99-F(I)		MW99-F(D)	
Sampling Date		9/30/2024		9/30/2024		9/24/2024		9/24/2024		9/26/2024		9/27/2024		10/1/2024		10/1/2024		10/1/2024	
Dilution Factor		1		1		1		1		1		50		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.68		1.7		130		73		22		540		0.22	U	1.8		0.15	J

Sample Location		MW99-H(S)		MW99-H(I)		MW99-H(I)		MW99-H(D)		MW99-I(S)		MW99-I(I)		MW99-I(D)	
Sampling Date		9/30/2024		9/30/2024		9/30/2024		10/1/2024		9/30/2024		9/30/2024		9/30/2024	
Dilution Factor				1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q	DUP	Q		Q		Q		Q		Q
1,4-Dioxane	0.35	NS		6.3		6.4		4.4		38		48		0.18	J

Sample Location		MW99-J(S)		MW99-J(I)		MW99-J(I)		MW99-J(D)		GEB-28BS		GEB-28BI		GEB-28BD		GEB-30BS		GEB-30BI	
Sampling Date		9/25/2024		9/25/2024		9/25/2024		9/25/2024		9/27/2024		10/1/2024		10/1/2024		9/30/2024		9/30/2024	
Dilution Factor		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q	DUP	Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.23		0.34		0.35		0.63		0.39		4.5		5.5		0.20	U	0.36	

Sample Location		Field Blank						Equipment Blank			
Sampling Date		9/24/2024	9/25/2024	9/26/2024	9/27/2024	9/30/2024	10/1/2024	9/25/2024	9/27/2024		
Dilution Factor		1	1	1	1	1	1	1	1		
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U

Table 8
Summary of 1,4-Dioxane in Groundwater, September 2024
Former 3M/Dynacolor Facility
Brockport, New York

Notes:

1 = New York State established a groundwater standard for 1,4-Dioxane at 0.35 µg/L in February 2023.

2 = MW99-H(S) was not sampled due to damaged well riser.

GWQS = Groundwater Quality Standards

NS = Not sampled

NYSDEC = New York State Department of Environmental Conservation

µg/L = microgram per liter

DUP = Duplicate sample

J = Result is less than the reporting limit (RL) but greater than or equal to the method detection limit and the concentration is an approximate value.

Q = Qualifier

UB = Compound is considered non-detect at the listed value due to associated blank contamination.

250 = Bold and underline indicates detection equal to or greater than Class GA Standard of 0.35 µg/L

Table 9
Summary of Historical 1,4-Dioxane Results in Groundwater
Former 3M/Dynacolor Facility
Brockport, New York



Sample Location		AGM-1-OB												AGM-1-SB													
Sampling Date		10/28/2020	3/25/2021				9/23/2021		9/6/2022		9/27/2023		9/24/2024		10/28/2020	3/25/2021		9/23/2021		9/6/2022		9/27/2023		9/24/2024			
Dilution Factor		20	50		50		1		1		1		1		50		50		20		1		20		5		
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q	DUP	Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	75		94		94		57		44		38		34		230		200		200		230		230		220	

Sample Location Sampling Date Dilution Factor		AGM-1-IB							
		9/23/2021	9/6/2022	9/27/2023	9/25/2024				
		1	1	1	1				
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q
1,4-Dioxane	0.35	0.31	UB	0.44	UB	0.25	UB	0.2	U

Sample Location Sampling Date Dilution Factor		AGM-2-OB						AGM-2-SB						AGM-2-IB							
		9/23/2021		9/26/2023		9/26/2024		9/23/2021		9/26/2023		9/26/2024		9/23/2021		9/2/2022		9/26/2023		9/25/2024	
		1		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	3.2		6.1		7.1		2.5		20		17		2.5		0.37		0.7		0.23	

Sample Location Sampling Date Dilution Factor		AGM-3-OB										AGM-3-SB											
		10/28/2020		3/25/2021		9/24/2021		9/1/2022		9/25/2023		9/24/2024		10/17/2020		9/24/2021		9/26/2023		9/27/2024			
		20		20		50		5		1		1		1		50		100		100		50	
Concentration (µg/L)	NYSDEC GWQS ¹		Q	DUP	Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	88		97		67		85		80		78		84		580		640		840		590	

Sample Location Sampling Date Dilution Factor		AGM-3-IB							
		9/24/2021	9/1/2022	9/26/2023	9/27/2024				
		10	1	1	1				
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q
1,4-Dioxane	0.35	110		110		150		150	

Sample Location Sampling Date Dilution Factor		AGM-4-OB								AGM-4-SB						AGM-4-IB							
		9/23/2021		9/2/2022		9/25/2023		9/30/2024		9/23/2021			9/26/2023			9/20/2021		9/1/2022		9/25/2023		9/30/2024	
		1		1		1		1		20		20		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q	DUP	Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	1.6		0.97		1.6		0.68		150		120		150		1.8		1.5		1.6		1.7	

Table 9
Summary of Historical 1,4-Dioxane Results in Groundwater
Former 3M/Dynacolor Facility
Brockport, New York

Sample Location		AGM-5-OB										AGM-5-SB									
Sampling Date		10/28/2020		3/25/2021		9/21/2021		8/31/2022		9/22/2023		9/24/2024		9/22/2021		8/31/2022		9/22/2023		9/24/2024	
Dilution Factor		50		50		20		10		1		1		50		10		10		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	140		120		130		150		130		130		170		150		93		73	

Sample Location Sampling Date Dilution Factor		AGM-6-SB		AGM-7-OB						AGM-8-OB										
		9/22/2021	9/26/2023	9/24/2021	9/27/2023		9/27/2021		9/27/2023	9/23/2021	9/26/2023	9/23/2021	9/26/2023							
		1	1	1	1		1		1	1	1	20	1							
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		1		Q		Q		Q		Q		Q			
1,4-Dioxane	0.35	9.8		9.1		0.37		1.9		11		12		170		30		170		94

Sample Location Sampling Date Dilution Factor		GW-1S								MW99-C(S)								MW99-C(I)							
		9/24/2021		9/6/2022				9/27/2023		9/23/2021		8/31/2022		9/22/2023		9/26/2024		9/23/2021		8/31/2022		9/22/2023		9/27/2024	
		1		1		1		1		1		1		1		1		100		20		50		50	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q	DUP	Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.55	UB	0.2	U	0.2	U	0.22	UB	29		29		14		22		590		520		470		540	

Sample Location Sampling Date Dilution Factor		MW99-D(S)								MW99-E(D)			
		9/21/2021		9/28/2023		9/21/2021		9/28/2023		9/21/2021		9/29/2023	
		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.64		2.0		1.1		2.0		0.28		0.41	UB

Sample Location Sampling Date Dilution Factor		MW99-F(S)						MW99-F(I)						MW99-F(D)					
		9/23/2021		9/28/2023		10/1/2024		9/24/2021		9/28/2023		10/1/2024		9/23/2021		9/28/2023		10/1/2024	
		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.2	U	0.19	J	0.22	U	5.0		2.6		1.8		0.3	UB	0.35		0.15	J

Sample Location Sampling Date Dilution Factor		MW99-G(S)				MW99-G(I)				MW99-G(D)			
		9/22/2021	9/28/2023	9/22/2021	9/28/2023	9/22/2021	9/28/2023	9/22/2021	9/28/2023	9/22/2021	9/28/2023	9/22/2021	9/28/2023
		1	1	20	1	1	1	1	1	1	1	1	1
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	<u>52</u>		<u>15</u>		<u>130</u>		<u>140</u>		<u>57</u>		<u>57</u>	

Table 9
Summary of Historical 1,4-Dioxane Results in Groundwater
Former 3M/Dynacolor Facility
Brockport, New York

Sample Location Sampling Date Dilution Factor		MW99-H(I)								MW99-H(D)									
		9/24/2021		8/30/2022		9/22/2023		9/30/2024				9/22/2021		8/30/2022		9/22/2023		10/1/2024	
		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q	DUP	Q		Q		Q		Q		Q
1,4-Dioxane	0.35	12		9.2		13		6.3		6.4		3.5		3.5		5.5		4.4	

Sample Location Sampling Date Dilution Factor		MW99-I(S)								MW99-I(I)											
		9/22/2021				8/30/2022				9/27/2023		9/30/2024		9/22/2021		8/30/2022		9/27/2023		9/30/2024	
		1		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q	DUP	Q		Q	DUP	Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	23		23		15		15		31		38		27		39		50		48	

Sample Location Sampling Date Dilution Factor		MW99-I(D)							
		9/22/2021		8/30/2022		9/27/2023		9/30/2024	
		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q
1,4-Dioxane	0.35	<u>10</u>		0.15	J	0.23	UB	0.18	J

Sample Location Sampling Date Dilution Factor		MW99-J(S)								MW99-J(I)											
		9/22/2021		8/30/2022		9/22/2023		9/25/2024		9/22/2021		8/29/2022		9/21/2023		9/25/2024					
		1		1		1		1		1		1		1		1					
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q	DUP	Q		Q	DUP	Q
1,4-Dioxane	0.35	0.23		0.24		0.44	UB	0.23		0.24		0.15	J	0.61	UB	0.51		0.34		0.35	

Sample Location Sampling Date Dilution Factor		MW99-J(D)									
		9/22/2021		8/29/2022		9/21/2023				9/25/2024	
		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q	DUP	Q		Q
1,4-Dioxane	0.35	0.31		0.51		0.70		0.80		0.63	

Sample Location Sampling Date Dilution Factor		GEB-28BS								GEB-28BI											
		9/21/2021		9/7/2022		9/28/2023		9/27/2024		9/21/2021				9/2/2022		9/25/2023				10/1/2024	
		1		1		1		1		1		1		1		1		1			
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q	DUP	Q		Q		Q	DUP	Q		Q
1,4-Dioxane	0.35	0.93		1.3		0.34		0.39		5.2		5.2		4.9		3.2		3.2		4.5	

Table 9
Summary of Historical 1,4-Dioxane Results in Groundwater
Former 3M/Dynacolor Facility
Brockport, New York



Sample Location Sampling Date Dilution Factor		GEB-28BD							
		9/21/2021		9/6/2022		9/28/2023		10/1/2024	
		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q
1,4-Dioxane	0.35	<u>2.6</u>		<u>5.9</u>		<u>4.5</u>		<u>5.5</u>	

Sample Location Sampling Date Dilution Factor		GEB-29BS						GEB-29BI						GEB-29BD					
		9/21/2021		9/7/2022		9/29/2023		9/21/2021		9/6/2022		9/29/2023		9/21/2021		9/7/2022		9/29/2023	
		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.18	J	0.2	UB	0.2	UB	0.15	J	0.2	UB	0.2	UB	0.38		0.29	UB	0.92	

Sample Location Sampling Date Dilution Factor		GEB-30BS								GEB-30BI								GEB-30BD					
		9/21/2021		9/7/2022		9/29/2023		9/30/2024		9/21/2021		9/7/2022		9/29/2023		9/30/2024		9/21/2021		9/7/2022		9/29/2023	
		1		1		1		1		1		1		1		1		1		1		1	
Concentration (µg/L)	NYSDEC GWQS ¹		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
1,4-Dioxane	0.35	0.76		0.21	UB	1.7		0.2	U	0.14	J	0.23	UB	0.89		0.36		0.28		0.59		0.53	UB

Table 9
Summary of Historical 1,4-Dioxane Results in Groundwater
Former 3M/Dynacolor Facility
Brockport, New York

Notes:

1 = New York State established a groundwater standard for 1,4-Dioxane at 0.35 µg/L in February 2023.

GWQS = Groundwater Quality Standards

NYSDEC = New York State Department of Environmental Conservation

µg/L = microgram per liter

DUP = Duplicate sample

J = Result is less than the reporting limit (RL) but greater than or equal to the method detection limit and the concentration is an approximate value.

Q = Qualifier

UB = Compound is considered non-detect at the listed value due to associated blank contamination.

250 = Bold and underline indicates detection equal to or greater than Class GA Standard of 0.35 µg/L

Table 10
Summary of Field Air Monitoring at Vapor Monitoring Points
Former 3M/Dynacolor Facility
Brockport, New York



Parameter	Sample I.D. Date Sampled:	VMP-3 3/19/2024	VMP-3 9/23/2024	VMP-4 3/19/2024	VMP-4 9/23/2024	VMP-5 3/19/2024	VMP-5 9/23/2024	VMP-8 3/19/2024	VMP-8 9/23/2024
PID (ppm)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Monoxide (ppm)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEL (%)		0.0	3.0	0.0	3.0	0.0	0.0	5.0	0.0
Oxygen (%)		18.4	15.2	17.8	13.9	19.6	19.5	17.6	18.7
Hydrogen Sulfide (ppm)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Parameter	Sample I.D. Date Sampled:	VMP-9 3/19/2024	VMP-9 9/23/2024	VMP-10 3/19/2024	VMP-10 9/23/2024	VMP-11 3/19/2024	VMP-11 9/23/2024
PID (ppm)		0.0	0.0	0.1	0.0	0.0	0.0
Carbon Monoxide (ppm)		0.0	0.0	0.0	0.0	0.0	0.0
LEL (%)		1.0	0.0	1.0	3.0	0.0	3.0
Oxygen (%)		18.2	12.3	16.1	11.6	18.2	12.7
Hydrogen Sulfide (ppm)		0.0	0.0	0.0	0.0	0.0	0.0

Notes:

LEL = lower exposure limit

ppm = parts per million

PID = photo ionization detector

VMP = vapor monitoring point

Table 11
Summary of Dissolved Gases in AGM-1-OB
Former 3M/Dynacolor Facility
Brockport, New York



Concentration (µg/L)	Sample Location:	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
	Sampling Date:	9/6/2022	3/9/2023	9/27/2023	3/20/2024	9/24/2024
Methane		7,670	21,000	14,000	4,330	11,400
Ethane		ND	115	24.8	ND	34.7
Ethene		ND	37.2	ND	ND	ND

Concentration (µg/L)	Sample Location:	Field Blank				
	Sampling Date:	9/6/2022	3/9/2023	9/27/2023	3/20/2024	9/24/2024
Methane		ND	ND	ND	ND	ND
Ethane		ND	ND	ND	ND	ND
Ethene		ND	ND	ND	ND	ND

Notes:

ND = non-detect

µg/L = micrograms per liter

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		AGM-1-OB									
		10/28/2020	3/25/2021		3/25/2021	3/20/2024		9/24/2024			
		1	4		4	4		1			
Concentration (ng/L)	Guidance Value		Q		Q	DUP	Q		Q		Q
Per- and Polyfluoroalkyl Substances (PFAS)											
Perfluorobutanesulfonic Acid (PFBS)	--	13		1.7	JN	1.8	JN	0.89	J	2.1	
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		NA		4.0	U	1.7	U
Perfluorohexanesulfonic Acid (PFHxS)	--	0.83	J	1.1	J	0.73	J	4.0	U	1.9	
Perfluoroheptanesulfonic Acid (PFHpS)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	10		8.9		7.8		2.7	J	13	
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		NA		4.0	U	1.7	U
Perfluorodecanesulfonic acid (PFDS)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		NA		4.0	U	1.7	U
Perfluorobutyric Acid (PFBA)	--	18		22		22		18		18	
Perfluoropentanoic Acid (PFPeA)	--	6.9		1.1	J	1.2	J	2.3	J	3.5	
Perfluorohexanoic Acid (PFHxA)	--	1.7		2.7		2.6		3.0	J	3.8	
Perfluoroheptanoic Acid (PFHpA)	--	1.4	J	1.5	J	1.5	J	2.2	J	4.0	
Perfluorooctanoic Acid (PFOA)	6.7	5.3		6.1		6.1		4.0		11	
Perfluorononanoic Acid (PFNA)	--	0.81	J	0.5	J	0.7	JN	4.0	U	1.5	J
Perfluorodecanoic Acid (PFDA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluoroundecanoic Acid (PFUnA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluorododecanoic Acid (PFDoA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluorotridecanoic Acid (PFTriA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Perfluorotetradecanoic Acid (PFTreA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		NA		16	U	2.5	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		NA		16	U	1.7	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		NA		8.0	U	0.51	J
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		NA		8.0	U	1.7	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NA		NA		NA		8.0	U	1.7	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		NA		16	U	3.3	U
6:2 Fluorotelomer sulfonic acid	--	4.2	U	4.2	U	4.1	U	16	U	3.3	U
8:2 Fluorotelomer sulfonic acid	--	1.7	U	1.7	U	1.6	U	16	U	3.3	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		20	U	3.3	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		100	U	8.4	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		100	U	8.4	U
Perfluorooctanesulfonamide (PFOSA)	--	1.7	U	1.7	U	1.6	U	4.0	U	1.7	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		NA		4.0	U	1.7	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		NA		4.0	U	1.7	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	4.2	U	4.2	U	4.1	U	8.0	U	1.7	U
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	4.2	U	4.2	U	4.1	U	4.0	U	1.7	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		NA		40	U	8.4	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		NA		40	U	8.4	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		AGM-1-SB									
		10/28/2020		3/25/2021		3/21/2024		3/21/2024		9/24/2024	
		1		1		1		4		1	
Concentration (ng/L)	Guidance Value		Q		Q		Q	DUP	Q		Q
Per- and Polyfluoroalkyl Substances (PFAS)											
Perfluorobutanesulfonic Acid (PFBS)	--	1.8	U	0.25	J	0.93	J	4.0	U	0.58	J
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		0.77	J	4.0	U	1.5	U
Perfluorohexanesulfonic Acid (PFHxS)	--	1.8	U	0.4	J	0.55	J	4.0	U	0.70	J
Perfluoroheptanesulfonic Acid (PFHpS)	--	1.8	U	1.7	U	1.9	U	4.0	U	1.5	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	0.91	J	0.81	J	3.6		2.1	J+	2.1	
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		1.9	U	4.0	U	1.5	U
Perfluorodecanesulfonic acid (PFDS)	--	1.8	U	1.7	U	1.9	U	4.0	U	1.5	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		1.9	R	4.0	U	1.5	U
Perfluorobutyric Acid (PFBA)	--	5.7		6		6.6	J	5.9	J	7.5	
Perfluoropentanoic Acid (PFPeA)	--	1.8	U	1.7	U	1.5	J	8.0	U	0.96	J
Perfluorohexanoic Acid (PFHxA)	--	1.8	U	0.64	J	0.99	J	1.4	J	1.1	J
Perfluoroheptanoic Acid (PFHpA)	--	1.8	U	0.27	J	4.7		3.9	J	1.1	J
Perfluorooctanoic Acid (PFOA)	6.7	1.7	J	1.6	J	2.0		2.4	J	2.5	
Perfluorononanoic Acid (PFNA)	--	1.8	U	1.7	U	0.6	J	4.0	U	1.5	U
Perfluorodecanoic Acid (PFDA)	--	1.8	U	1.7	U	1.9	U	4.0	U	1.5	U
Perfluoroundecanoic Acid (PFUnA)	--	1.8	U	1.7	U	1.9	U	4.0	U	1.5	U
Perfluorododecanoic Acid (PFDoA)	--	1.8	U	1.7	U	1.9	U	40	U	1.5	U
Perfluorotridecanoic Acid (PFTriA)	--	1.8	U	1.7	U	1.9	UJ	40	U	1.5	U
Perfluorotetradecanoic Acid (PFTreA)	--	1.8	U	1.7	U	1.9	U	40	U	1.5	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		7.7	U	16	U	2.2	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		7.7	U	16	U	1.5	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		3.9	U	8.0	U	1.5	U
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		3.9	U	8.0	U	1.5	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NA		NA		3.9	U	8.0	U	1.5	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		7.7	U	16	U	2.9	U
6:2 Fluorotelomer sulfonic acid	--	4.5	U	4.4	U	7.7	U	16	U	1.1	J
8:2 Fluorotelomer sulfonic acid	--	1.8	U	1.7	U	7.7	U	16	U	2.9	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		9.7	U	20	U	2.9	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		48	U	100	U	7.4	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		48	U	100	U	7.4	U
Perfluorooctanesulfonamide (PFOSA)	--	1.8	U	1.7	U	1.9	U	4.0	U	1.5	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		1.9	U	4.0	U	1.5	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		19	UJ	4.0	U	1.5	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	4.5	U	4.4	U	3.9	U	8.0	U	1.5	U
Glycine, N-ethyl-N-[(heptafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	4.5	U	4.4	U	1.9	U	4.0	U	1.5	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		190	UJ	40	U	7.4	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		190	UJ	40	U	7.4	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		AGM-3-OB											
		10/28/2020		10/28/2020		3/25/2021		3/20/2024		9/24/2024		9/24/2024	
		1		1		1		1		1		1	
Concentration (ng/L)	Guidance Value		Q	DUP	Q		Q		Q		Q	DUP	Q
Per- and Polyfluoroalkyl Substances (PFAS)													
Perfluorobutanesulfonic Acid (PFBS)	--	1.7	J	1.6	J	1.9	J	1.9	J	1.5		1.6	
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		NA		0.87	J	1.5	U	1.6	U
Perfluorohexanesulfonic Acid (PFHxS)	--	1.4	J	1.3	J	1.2	J	1.7	U	2.1		2.1	
Perfluoroheptanesulfonic Acid (PFHpS)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	6.2		6.1		4.6		2.1		4.6		4.3	
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		NA		1.7	U	1.5	U	1.6	U
Perfluorodecanesulfonic acid (PFDS)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		NA		1.7	U	1.5	U	1.6	U
Perfluorobutyric Acid (PFBA)	--	5.3		5.4		4.8	J	8.8		6.6		6.9	
Perfluoropentanoic Acid (PFPeA)	--	2.1		3.3		3.4	J	2.6	J	2.0		1.9	
Perfluorohexanoic Acid (PFHxA)	--	2.8		2.9		3.2	J	2.6		2.4		2.6	
Perfluoroheptanoic Acid (PFHpA)	--	1.3	J	1.1	J	1.5	J	1.3	J	1.5		1.5	J
Perfluorooctanoic Acid (PFOA)	6.7	3.3		4.0		3.4	J	2.4		4.5		5.3	
Perfluorononanoic Acid (PFNA)	--	0.86	J	0.76	J	4.0	U	1.7	U	0.88	J	0.91	U
Perfluorodecanoic Acid (PFDA)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluoroundecanoic Acid (PFUnA)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluorododecanoic Acid (PFDoA)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluorotridecanoic Acid (PFTriA)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Perfluorotetradecanoic Acid (PFTreA)	--	1.8	U	1.8	U	4.0	U	1.7	U	1.5	U	1.6	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		NA		69	U	2.3	U	2.4	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		NA		69	U	1.5	U	1.6	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		NA		3.5	U	1.5	U	1.6	U
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		NA		3.5	U	1.5	U	1.6	U
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	--	NA		NA		NA		3.5	U	1.5	U	1.6	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		NA		6.9	U	3.0	U	3.1	U
6:2 Fluorotelomer sulfonic acid	--	4.6	U	4.6	U	10.0	U	6.9	U	3.0	U	3.1	U
8:2 Fluorotelomer sulfonic acid	--	1.8	U	1.8	U	4.0	U	6.9	U	3.0	U	3.1	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		8.6	U	3.0	U	3.1	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		43	U	7.5	U	7.9	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		NA		43	U	7.5	U	7.9	U
Perfluorooctanesulfonamide (PFOSA)	--	1.8	U	1.8	U	4.0	U	0.45	J	1.5	U	1.6	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		NA		1.7	U	1.5	U	1.6	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		NA		1.7	U	1.5	U	1.6	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	4.6	U	4.6	U	10.0	U	3.5	U	1.5	U	1.6	U
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	4.6	U	4.6	U	10.0	U	1.7	U	1.5	U	7.9	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		NA		17	U	7.5	U	7.9	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		NA		170	U	7.5	U	7.9	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		AGM-5-OB							
		10/28/2020		3/25/2021		3/20/2024		9/24/2024	
		1		1		1		1	
Concentration (ng/L)	Guidance Value		Q		Q		Q		Q
Per- and Polyfluoroalkyl Substances (PFAS)									
Perfluorobutanesulfonic Acid (PFBS)	--	1.7	J	1.6	J	0.38	J	1.9	
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		0.64	J	0.38	J
Perfluorohexanesulfonic Acid (PFHxS)	--	1.6	J	2.1		1.9	U	2.3	
Perfluoroheptanesulfonic Acid (PFHpS)	--	0.59	J	1.8	U	4.0	U	1.5	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	5.5		4.3		4.7		5.6	
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		4.0	U	1.5	U
Perfluorodecanesulfonic acid (PFDS)	--	1.9	U	1.8	U	4.0	U	1.5	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		4.0	U	1.5	U
Perfluorobutyric Acid (PFBA)	--	7		7.8		10		7.7	
Perfluoropentanoic Acid (PFPeA)	--	2.4		1.8		1.8	J	2.5	
Perfluorohexanoic Acid (PFHxA)	--	2.5		2.2		2.3		3.1	
Perfluoroheptanoic Acid (PFHpA)	--	1.7	J	1.3	J	1.4	J	2.0	
Perfluorooctanoic Acid (PFOA)	6.7	5.7		4.4		5.0		6.2	
Perfluorononanoic Acid (PFNA)	--	0.56	J	0.48	J	0.58	J	0.95	J
Perfluorodecanoic Acid (PFDA)	--	1.9	U	1.8	U	1.9	U	1.5	U
Perfluoroundecanoic Acid (PFUnA)	--	1.9	U	1.8	U	1.9	U	1.5	U
Perfluorododecanoic Acid (PFDoA)	--	1.9	U	1.8	U	1.9	U	1.5	U
Perfluorotridecanoic Acid (PFTriA)	--	1.9	U	1.8	U	1.9	U	1.5	U
Perfluorotetradecanoic Acid (PFTreA)	--	1.9	U	1.8	U	1.9	U	1.5	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		7.5	U	2.3	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		7.5	U	1.5	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		3.8	U	1.5	U
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		3.8	U	1.5	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NA		NA		3.8	U	1.5	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		7.5	U	3.0	U
6:2 Fluorotelomer sulfonic acid	--	4.9	U	4.4	U	7.5	U	3.0	U
8:2 Fluorotelomer sulfonic acid	--	1.9	U	1.8	U	7.5	U	3.0	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		9.4	U	3.0	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		47	U	7.6	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		47	U	7.6	U
Perfluorooctanesulfonamide (PFOSA)	--	1.9	U	1.8	U	4.0	U	1.5	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		1.9	U	1.5	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		1.9	U	1.5	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	4.9	U	4.4	U	3.8	U	1.5	U
Glycine, N-ethyl-N-[(heptafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	4.9	U	4.4	U	4.0	U	1.5	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		40	U	7.6	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		40	U	7.6	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		Field Blank									
		10/28/2020		3/25/2021		3/20/2024		3/21/2024		9/24/2024	
		1		1		1		1		1	
Concentration (ng/L)	Guidance Value		Q		Q		Q		Q		Q
Per- and Polyfluoroalkyl Substances (PFAS)											
Perfluorobutanesulfonic Acid (PFBS)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		1.8	U	2.0	U	1.5	U
Perfluorohexanesulfonic Acid (PFHxS)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluoroheptanesulfonic Acid (PFHpS)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	1.9	U	1.8	U	1.8	U	0.51	J	1.5	U
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		1.8	U	2.0	U	1.5	U
Perfluorodecanesulfonic acid (PFDS)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		1.8	U	2.0	U	1.5	U
Perfluorobutyric Acid (PFBA)	--	4.7	U	4.4	U	7.3	U	8.0	U	3.0	U
Perfluoropentanoic Acid (PFPeA)	--	1.9	U	1.8	U	3.7	U	4.0	U	1.5	U
Perfluorohexanoic Acid (PFHxA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluoroheptanoic Acid (PFHpA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorooctanoic Acid (PFOA)	6.7	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorononanoic Acid (PFNA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorodecanoic Acid (PFDA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluoroundecanoic Acid (PFUnA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorododecanoic Acid (PFDoA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorotridecanoic Acid (PFTriA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Perfluorotetradecanoic Acid (PFTreA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		1.8	U	8.0	U	2.2	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		1.8	U	8.0	U	1.5	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		3.7	U	4.0	U	1.5	U
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		3.7	U	4.0	U	1.5	U
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	--	NA		NA		3.7	U	4.0	U	1.5	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		7.3	U	8.0	U	3.0	U
6:2 Fluorotelomer sulfonic acid	--	4.7	U	4.4	U	7.3	U	8.0	U	3.0	U
8:2 Fluorotelomer sulfonic acid	--	1.9	U	1.8	U	7.3	U	8.0	U	3.0	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		9.1	U	10	U	3.0	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		46	U	50	U	7.5	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		46	U	50	U	7.5	U
Perfluorooctanesulfonamide (PFOSA)	--	1.9	U	1.8	U	1.8	U	2.0	U	1.5	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		1.8	U	2.0	U	1.5	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		1.8	U	2.0	U	1.5	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	4.7	U	4.4	U	3.7	U	4.0	U	1.5	U
Glycine, N-ethyl-N-[(heptafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	4.7	U	4.4	U	1.8	U	2.0	U	1.5	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		18	U	20	U	7.5	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		18	U	20	U	7.5	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Sample Location Sampling Date Dilution Factor		Equipment Blank									
		10/28/2020		3/25/2021		3/20/2024		3/21/2024		9/24/2024	
		1		1		1		1		1	
Concentration (ng/L)	Guidance Value		Q		Q		Q		Q		Q
Per- and Polyfluoroalkyl Substances (PFAS)											
Perfluorobutanesulfonic Acid (PFBS)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluoropentanesulfonic Acid (PFPeS)	--	NA		NA		1.9	U	1.8	U	1.5	U
Perfluorohexanesulfonic Acid (PFHxS)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluoroheptanesulfonic Acid (PFHpS)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorooctanesulfonic Acid (PFOS)	2.7	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorononanesulfonic acid (PFNS)	--	NA		NA		1.9	U	1.8	U	1.5	U
Perfluorodecanesulfonic acid (PFDS)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorododecanesulfonic acid (PFDOS)	--	NA		NA		1.9	U	1.8	U	1.5	U
Perfluorobutyric Acid (PFBA)	--	5.0	U	4.3	U	3.7	U	7.2	U	3.0	U
Perfluoropentanoic Acid (PFPeA)	--	2.0	U	1.7	U	1.9	U	3.6	U	1.5	U
Perfluorohexanoic Acid (PFHxA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluoroheptanoic Acid (PFHpA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorooctanoic Acid (PFOA)	6.7	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorononanoic Acid (PFNA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorodecanoic Acid (PFDA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluoroundecanoic Acid (PFUnA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorododecanoic Acid (PFDoA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorotridecanoic Acid (PFTriA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Perfluorotetradecanoic Acid (PFTreA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	NA		NA		7.4	U	7.2	U	2.2	U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	NA		NA		7.4	U	7.2	U	1.5	U
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	NA		NA		3.7	U	3.6	U	1.5	U
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	NA		NA		3.7	U	3.6	U	1.5	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	--	NA		NA		3.7	U	3.6	U	1.5	U
4:2 Fluorotelomer sulfonic acid	--	NA		NA		7.4	U	7.2	U	3.0	U
6:2 Fluorotelomer sulfonic acid	--	5.0	U	4.3	U	7.4	U	7.2	U	3.0	U
8:2 Fluorotelomer sulfonic acid	--	2.0	U	1.7	U	7.4	U	7.2	U	3.0	U
3:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		9.3	U	9.1	U	3.0	U
5:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		46	U	45	U	7.5	U
7:3 Fluorotelomer carboxylic acid (FTCA)	--	NA		NA		46	U	45	U	7.5	U
Perfluorooctanesulfonamide (PFOSA)	--	2.0	U	1.7	U	1.9	U	1.8	U	1.5	U
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	NA		NA		1.9	U	1.8	U	1.5	U
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	NA		NA		1.9	U	1.8	U	1.5	U
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	5.0	U	4.3	U	3.7	U	3.6	U	1.5	U
Glycine, N-ethyl-N-[(heptafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	5.0	U	4.3	U	1.9	U	1.8	U	1.5	U
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	NA		NA		19	U	18	U	7.5	U
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	NA		NA		19	U	18	U	7.5	U

Table 12
Summary of PFAS Results in Groundwater
Former 3M/Dynacolor Site
Brockport, New York



Notes:

1 = New York State Department of Environmental Conservation (NYSDEC) adopted ambient water quality guidance values for PFOA (6.7 ng/L) and PFOS (2.7 ng/L) in groundwater samples in February 2023.

2 = PFAS samples collected in 2020 and 2021 were analyzed using modified USEPA Method 537. The 2024 samples were analyzed using USEPA Method 1633.

ng/L = nanograms per liter

-- = no NYSDEC ambient water quality guidance value designated

DUP = duplicate sample

NA = not analyzed

I = Value is EMPC (estimated maximum possible concentration).

J = Result is less than the reporting limit (RL) but greater than or equal to the method detection limit and the concentration is an approximate value.

JN = Indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

J+ = Indicates the result was an estimated quantity, but the result may be biased high.

Q = qualifier

R = Indicates the sample results are rejected.

U = Indicates the analyte was analyzed for but not detected.

10 = Bold and underline indicates PFAS constituent concentration is equal to or greater than the ambient water quality guidance value.

Table 13
2024 Passive Sampling Well List and Parameters
Former 3M/Dynacolor Facility
Brockport, New York



Well ID	Well Depth (ft)	Screen Interval (ft bgs)	Saturated Screen Length (ft)	Well Diameter (inches)	VOCs (120 mL)	Total Cyanide (125 mL)	1,4-Dioxane (500 mL)	PFAS (375 mL)	Required Sample Volume (mL)
AGM-1-SB	36	21-36	15	2	X	--	X	X	995
AGM-3-SB	25	15-25	10	2	X	X	X	--	745
AGM-5-SB	20	10-20	10	2	X	X	X	--	745
AGM-8-OB	9	5-9	4	2	X	--	--	--	120
MW99-J(S)	14	9-14	5	2	X	--	X	--	620

Notes:

bgs = below ground surface

ft = feet

mL = milliliter

PFAS = Per- and Polyfluoroalkyl Substances

VOCs = Volatile Organic Compounds

Table 14a

Comparison of Passive Sampling and Low-Flow Sampling Methods for VOCs, Total Cyanide, and 1,4-Dioxane
Former 3M/Dynacolor Facility
Brockport, New York



Well ID: Sample Date: Sampling Method: Dilution Factor:		AGM-1-SB					AGM-3-SB					AGM-5-SB				
		9/24/2024		10/28/2024		RPD (%) ¹	9/27/2024		10/28/2024		RPD (%) ¹	9/24/2024		10/28/2024		RPD (%) ¹
		Low-Flow		Passive			Low-Flow		Passive			Low-Flow		Passive		
		4		4			10		10			2		2		
Constituent	NYSDEC GWQS (µg/L)		Q		Q			Q		Q			Q		Q	
Volatile Organic Compounds																
1,1,1-Trichloroethane	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
1,1,2,2-Tetrachloroethane	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
1,1,2-Trichloroethane	1	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
1,1-Dichloroethane	5	<u>240</u>		<u>180</u>		28.6	<u>520</u>		<u>340</u>		41.9	<u>13</u>		<u>0.93</u>	J	173.3
1,1-Dichloroethene	5	<u>13</u>		<u>5.0</u>		88.9	10	U	10	U	--	2	U	2	U	--
1,2-Dichloroethane	0.6	<u>1.2</u>	J	<u>1.2</u>	J	0.0	10	U	10	U	--	2	U	2	U	--
1,2-Dichloropropane	1	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Acrolein	5	80	U	80	U	--	200	U	200	U	--	40	U	40	U	--
Acrylonitrile	5	80	U	20	U	--	50	U	50	U	--	40	U	10	U	--
Benzene	1	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Bromodichloromethane	--	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Bromoform	--	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Bromomethane	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Carbon tetrachloride	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Chlorobenzene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Chloroethane	5	<u>81</u>		<u>83</u>		2.4	<u>140</u>		<u>200</u>		35.3	<u>11</u>		2	U	--
Chloroform	7	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Chloromethane	--	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
cis-1,2-Dichloroethene	5	<u>9.1</u>		<u>4.2</u>		73.7	10	U	10	U	--	<u>2.1</u>		2	U	--
cis-1,3-Dichloropropene	0.4*	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Dibromochloromethane	50	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Ethylbenzene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Methylene Chloride	5	8	U	4.1	UB	--	10	U	11		--	4	U	1.8	UB	--
m-Xylene & p-Xylene	5	8	U	8	U	--	20	U	20	U	--	4	U	<u>1.7</u>	J	--
o-Xylene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Tetrachloroethene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Toluene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
trans-1,2-Dichloroethene	5	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
trans-1,3-Dichloropropene	0.4*	4	U	4	U	--	10	U	10	U	--	2	U	2	U	--
Trichloroethene	5	<u>6.1</u>		<u>2.1</u>	J	97.6	10	U	10	U	--	2	U	2	U	--
Vinyl chloride	2	<u>8.8</u>		<u>5.3</u>		49.6	10	U	10	U	--	<u>6.9</u>		2	U	--
Total Cyanide	200	NA		NA		--	<u>540</u>		<u>460</u>		16.0	<u>120</u>		<u>110</u>		8.7
1,4-Dioxane	0.35	<u>220</u>		<u>180</u>		20.0	<u>590</u>		<u>520</u>		12.6	<u>73</u>		<u>79</u>		7.9

Table 14a

Comparison of Passive Sampling and Low-Flow Sampling Methods for VOCs, Total Cyanide, and 1,4-Dioxane
Former 3M/Dynacolor Facility
Brockport, New York



Well ID: Sample Date: Sampling Method: Dilution Factor:		AGM-8-OB					MW99-J(S)				
		9/25/2024		10/28/2024		RPD (%) ¹	9/25/2024		10/28/2024		RPD (%) ¹
		Low-Flow		Passive			Low-Flow		Passive		
		2		1			1		1		
Constituent	NYSDEC GWQS (µg/L)		Q		Q			Q		Q	
Volatile Organic Compounds											
1,1,1-Trichloroethane	5	2	U	2	U	--	1	U	1	U	--
1,1,2,2-Tetrachloroethane	5	2	U	2	U	--	1	U	1	U	--
1,1,2-Trichloroethane	1	2	U	2	U	--	1	U	1	U	--
1,1-Dichloroethane	5	18		1.3	J	173.1	1	U	1	U	--
1,1-Dichloroethene	5	2	U	2	U	--	1	U	1	U	--
1,2-Dichloroethane	0.6	2	U	2	U	--	1	U	1	U	--
1,2-Dichloropropane	1	2	U	2	U	--	1	U	1	U	--
Acrolein	5	40	U	40	U	--	20	U	20	U	--
Acrylonitrile	5	40	U	10	U	--	20	U	5	U	--
Benzene	1	2	U	2	U	--	1	U	1	U	--
Bromodichloromethane	--	2	U	2	U	--	1	U	1	U	--
Bromoform	--	2	U	2	U	--	1	U	1	U	--
Bromomethane	5	2	U	2	U	--	1	U	1	U	--
Carbon tetrachloride	5	2	U	2	U	--	1	U	1	U	--
Chlorobenzene	5	2	U	2	U	--	1	U	1	U	--
Chloroethane	5	2	U	2	U	--	1	U	1	U	--
Chloroform	7	2	U	2	U	--	1	U	1	U	--
Chloromethane	--	2	U	2	U	--	1	U	1	U	--
cis-1,2-Dichloroethene	5	2	U	2	U	--	1	U	1	U	--
cis-1,3-Dichloropropene	0.4*	2	U	2	U	--	1	U	1	U	--
Dibromochloromethane	50	2	U	2	U	--	1	U	1	U	--
Ethylbenzene	5	2	U	2	U	--	1	U	1	U	--
Methylene Chloride	5	4	U	1.9	UB	--	2	U	1	U	--
m-Xylene & p-Xylene	5	4	U	4	U	--	2	U	2	U	--
o-Xylene	5	2	U	2	U	--	1	U	1	U	--
Tetrachloroethene	5	2	U	2	U	--	1	U	1	U	--
Toluene	5	2	U	2	U	--	1	U	1	U	--
trans-1,2-Dichloroethene	5	2	U	2	U	--	1	U	1	U	--
trans-1,3-Dichloropropene	0.4*	2	U	2	U	--	1	U	1	U	--
Trichloroethene	5	2	U	2	U	--	1	U	1	U	--
Vinyl chloride	2	2	U	2	U	--	1	U	1	U	--
Total Cyanide	200	NA		NA		--	NA		NA		--
1,4-Dioxane	0.35	NA		NA		--	0.23		0.17	J	30.0

Table 14a

Comparison of Passive Sampling and Low-Flow Sampling Methods for VOCs, Total Cyanide, and 1,4-Dioxane
Former 3M/Dynacolor Facility
Brockport, New York



Notes:

1 = Relative Percent Difference (RPD) is calculated only when the constituent is detected in both samples being compared.

µg/L = Micrograms per liter

* = Applies to the total for 1,3-Dichloro-1-propene

-- = No applicable NYSDEC Groundwater Quality Standard.

DMPDB = Dual-membrane passive diffusion bag

GWQS = Groundwater Quality Standards

NA = Not analyzed

NYSDEC = New York State Department of Environmental Conservation

Q = Qualifier

J = Associated value is an estimate

U = Constituent was not detected at or above the reporting limit.

UB = Constituent is considered non-detect at the listed value due to associated blank contamination.

250 = Bold and underline indicates constituent concentration is equal to or greater than NYSDEC GWQS.

0.35 = Bold indicates constituent was detected.

Table 14b
Comparison of Passive Sampling and Low-Flow Sampling Methods for PFAS
Former 3M/Dynacolor Facility
Brockport, New York



		Sample Location:	AGM-1-SB				
		Sampling Date:	9/24/2024		10/28/2024		RPD (%) ¹
		Sampling Method:	Low-Flow		Passive		
		Dilution Factor:	1		1		
Constituent	Guidance Value (ng/L)		Q		Q		
Per- and Polyfluoroalkyl Substances (PFAS)							
Perfluorobutanesulfonic Acid (PFBS)	--	0.58	Jl	1.7	U	--	
Perfluoropentanesulfonic Acid (PFPeS)	--	1.5	U	1.7	U	--	
Perfluorohexanesulfonic Acid (PFHxS)	--	0.70	J	1.7	U	--	
Perfluoroheptanesulfonic Acid (PFHpS)	--	1.5	U	1.7	U	--	
Perfluorooctanesulfonic Acid (PFOS)	2.7	2.1		1.0	J	71.0	
Perfluorononanesulfonic acid (PFNS)	--	1.5	U	1.7	U	--	
Perfluorodecanesulfonic acid (PFDS)	--	1.5	U	1.7	U	--	
Perfluorododecanesulfonic acid (PFDOS)	--	1.5	U	1.7	U	--	
Perfluorobutyric Acid (PFBA)	--	7.5		5.3		34.4	
Perfluoropentanoic Acid (PFPeA)	--	0.96	J	1.7	U	--	
Perfluorohexanoic Acid (PFHxA)	--	1.1	J	1.7	U	--	
Perfluoroheptanoic Acid (PFHpA)	--	1.1	J	1.7	U	--	
Perfluorooctanoic Acid (PFOA)	6.7	2.5		2.2		12.8	
Perfluorononanoic Acid (PFNA)	--	1.5	U	1.7	U	--	
Perfluorodecanoic Acid (PFDA)	--	1.5	U	1.7	U	--	
Perfluoroundecanoic Acid (PFUnA)	--	1.5	U	1.7	U	--	
Perfluorododecanoic Acid (PFDoA)	--	1.5	U	1.7	U	--	
Perfluorotridecanoic Acid (PFTriA)	--	1.5	U	1.7	U	--	
Perfluorotetradecanoic Acid (PFTreA)	--	1.5	U	1.7	U	--	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	--	2.2	U	1.7	U	--	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	1.5	U	1.7	U	--	
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	--	1.5	U	1.7	U	--	
Perfluoro-4-methoxybutanoic acid (PFMOBA)	--	1.5	U	1.7	U	--	
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	--	1.5	U	1.7	U	--	
4:2 Fluorotelomer sulfonic acid	--	2.9	U	3.3	U	--	
6:2 Fluorotelomer sulfonic acid	--	1.1	U	0.94	J	--	
8:2 Fluorotelomer sulfonic acid	--	2.9	U	3.3	U	--	
3:3 Fluorotelomer carboxylic acid (FTCA)	--	2.9	U	3.3	U	--	
5:3 Fluorotelomer carboxylic acid (FTCA)	--	7.4	U	8.3	U	--	
7:3 Fluorotelomer carboxylic acid (FTCA)	--	2.9	U	8.3	U	--	
Perfluorooctanesulfonamide (PFOSA)	--	1.5	U	1.7	U	--	
N-methyl perfluorooctanesulfonamide (MeFOSA)	--	1.5	U	1.7	U	--	
N-Ethylperfluorooctanesulfonamide (EtFOSA)	--	1.5	U	1.7	U	--	
2-[N-Methylperfluorooctanesulfonamido] acetic acid (NMeFOSAA)	--	1.5	U	1.7	U	--	
Glycine, N-ethyl-N-[(heptaecafluorooctyl)sulfonyl]- (N-EtFOSAA)	--	1.5	U	1.7	U	--	
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	--	7.4	U	8.3	U	--	
N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulfonamide (N-EtFOSE)	--	7.4	U	8.3	U	--	

Table 14b
Comparison of Passive Sampling and Low-Flow Sampling Methods for PFAS
Former 3M/Dynacolor Facility
Brockport, New York



Notes:

1 = Relative Percent Difference (RPD) is calculated only when the constituent is detected in both samples being compared.

ng/L = nanograms per liter

-- = no NYSDEC ambient water quality guidance value designated

NYSDEC = New York State Department of Environmental Conservation

Q = Qualifier

I = Value is EMPC (estimated maximum possible concentration).

J = Associated value is an estimate

U = Element was not detected at or above the reporting limit

0.35 = Bold indicates constituent was detected.

Table 15
Proposed 2025 Groundwater Monitoring Schedule
Former 3M/Dynacolor Facility
Brockport, New York



Semi-annual Groundwater Monitoring Groundwater Monitoring Schedule March 2025			
VOCs Field Parameters	TOC	Dissolved Gases	PFAS
AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
AGM-1-SB	AGM-1-SB		AGM-1-SB
AGM-3-OB	AGM-3-OB		AGM-3-OB
AGM-3-SB	AGM-7-OB		AGM-3-SB
AGM-5-SB	AGM-8-OB		AGM-5-OB
AGM-6-SB			MW99-H(S)
AGM-7-OB			MW99-I(S)
AGM-7-SB			MW99-J(S)
AGM-8-OB			
AGM-8-SB			
MW99-G(S)			
MW99-H(I)			

Annual Groundwater Monitoring Groundwater Monitoring Schedule September 2025				
VOCs Field Parameters	Total Cyanide	TOC	Dissolved Gases	1,4-Dioxane
AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB	AGM-1-OB
AGM-1-SB	AGM-3-SB	AGM-1-SB		AGM-1-SB
AGM-2-OB	AGM-4-SB	AGM-3-OB		AGM-1-IB
AGM-2-SB	AGM-5-SB	AGM-7-OB		AGM-2-OB
AGM-3-OB	AGM-6-SB	AGM-8-OB		AGM-2-SB
AGM-3-SB	AGM-7-OB			AGM-2-IB
AGM-3-IB	AGM-7-SB			AGM-3-OB
AGM-4-OB	MW99-D(I)			AGM-3-SB
AGM-4-SB	MW99-I(I)			AGM-3-IB
AGM-5-OB	MW99-J(I)			AGM-4-OB
AGM-5-SB				AGM-4-IB
AGM-6-SB				AGM-5-OB
AGM-7-OB				AGM-5-SB
AGM-7-SB				MW99-C(S)
AGM-8-OB				MW99-C(I)
AGM-8-SB				MW99-F(S)
MW99-C(S)				MW99-F(I)
MW99-C(I)				MW99-F(D)
MW99-D(I)				MW99-H(S)
MW99-F(I)				MW99-H(I)
MW99-F(D)				MW99-H(D)
MW99-G(S)				MW99-I(S)
MW99-G(I)				MW99-I(I)
MW99-G(D)				MW99-I(D)
MW99-H(S)				MW99-J(S)
MW99-H(I)				MW99-J(I)
MW99-H(D)				MW99-J(D)
MW99-I(S)				GEB-28BS
MW99-I(I)				GEB-28BI
MW99-J(S)				GEB-28BD
MW99-J(I)				GEB-30BS
				GEB-30BI

Notes:

PFAS = Per- and Polyfluoroalkyl Substances

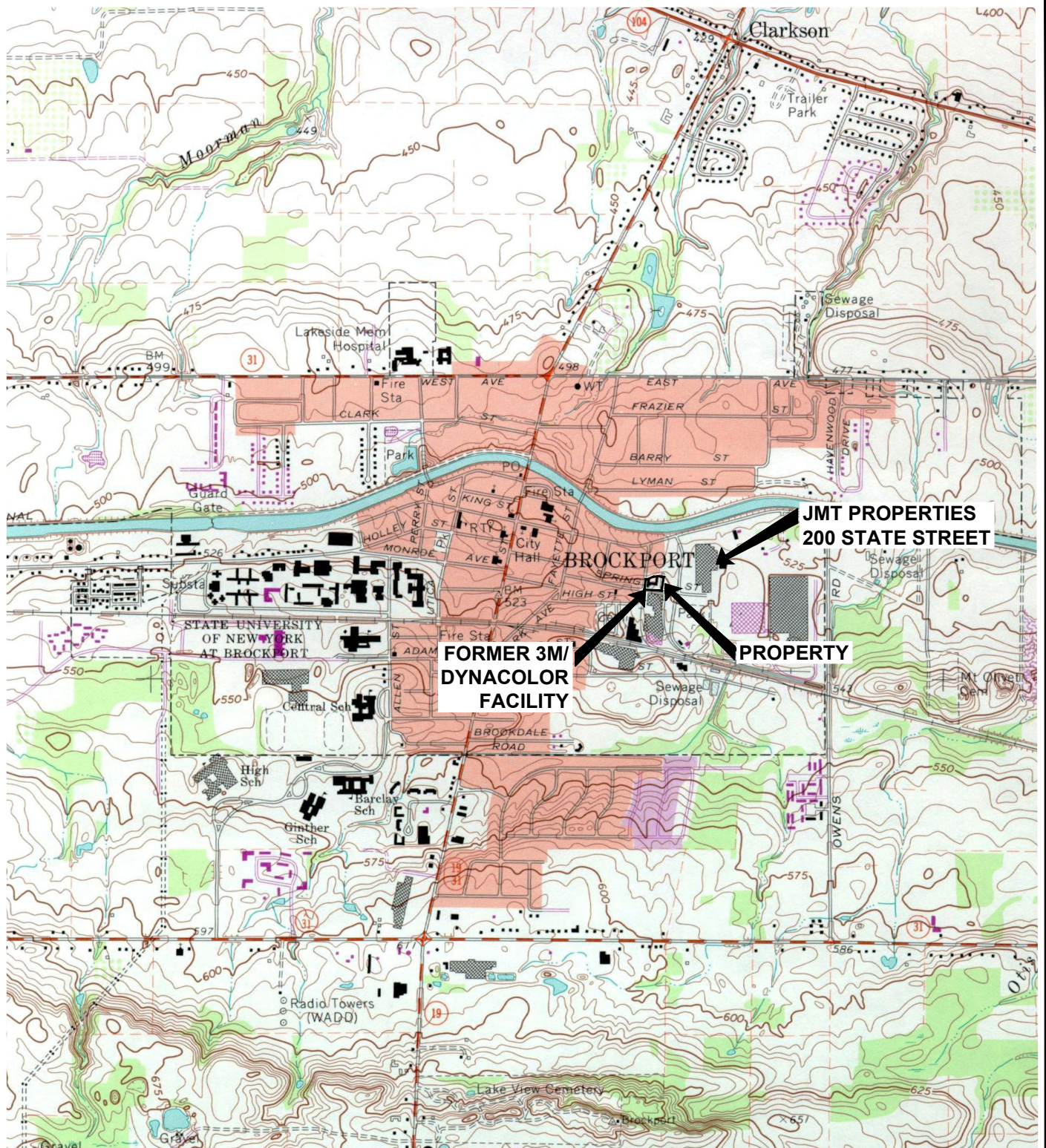
TOC = Total Organic Carbon

VOCs = Volatile Organic Compounds

Field parameters for groundwater include pH, specific conductivity, temperature, turbidity, dissolved oxygen, and redox potential.

Dissolved gases include methane, ethane, and ethene.

Figures



REFERENCE: BROCKPORT, NY, USGS QUADRANGLE, 7.5 MINUTE SERIES, 1971, PHOTO-REVISED, 1978.



FORMER 3M/DYANCOLOR FACILITY, SITE #828086
 BROCKPORT, NEW YORK

PROPERTY LOCATION MAP



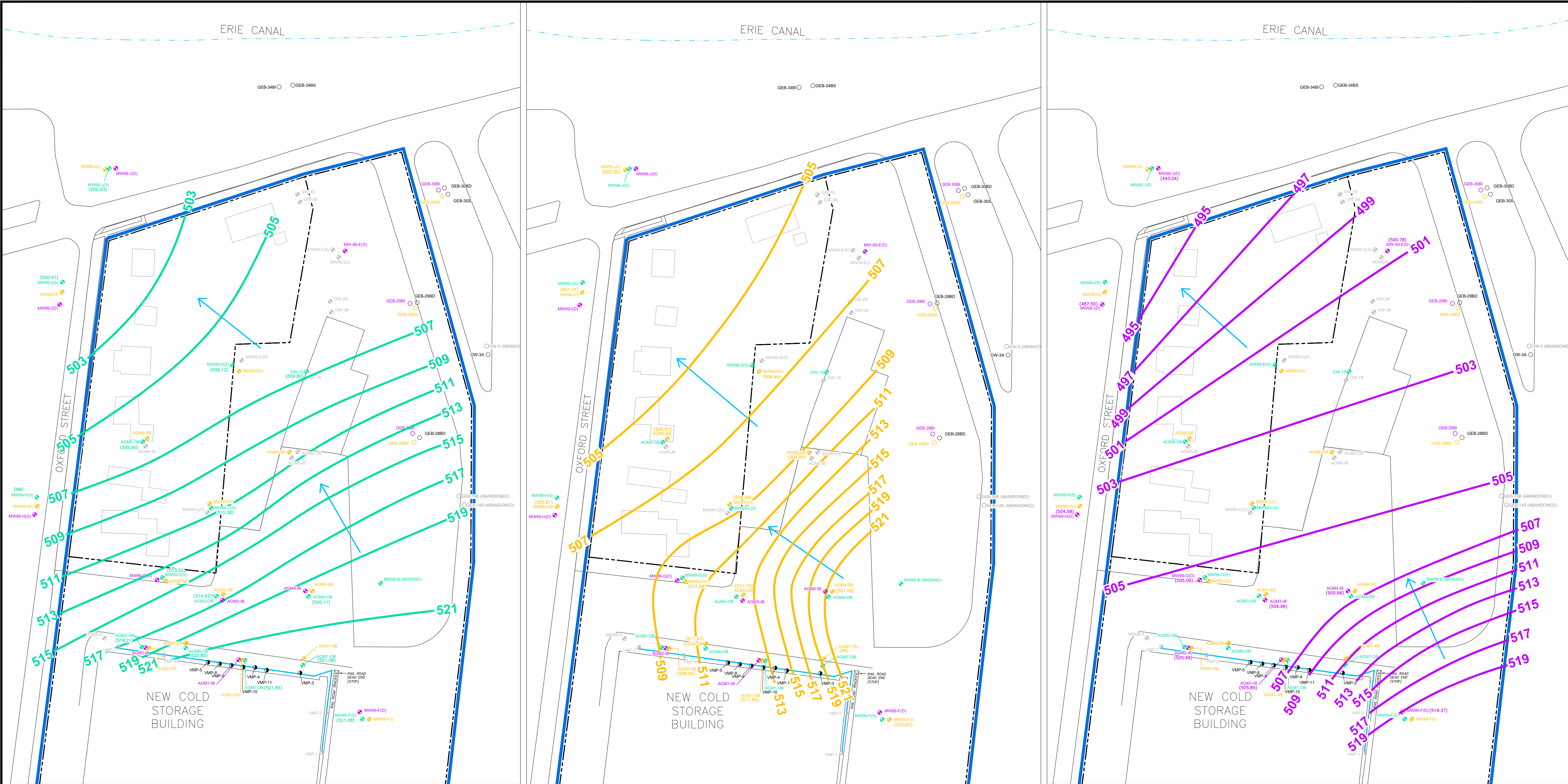
FIGURE

1



C:\Users\lambert\OneDrive\Arcadis\ACC\Docs\Arcadis ACC USA\US-99999999-3M_BROCKPORT_NY\Project Files\10_WIP\107_ARC_ENV\202501-DWG\PRR2024-F04-GWC-SEPT 2024.dwg LAYOUT: 4. SAVED: 1/30/2025 1:43 PM ACADVER: 24.2S (LMS TECH) PAGES: 1 OF 1 PLOTTED: 2/28/2025 12:28 PM BY: JAMICELI, KIMBERLY

GEN-X-BASE1
GEN-X-BASE1
GEN-X-BASE1



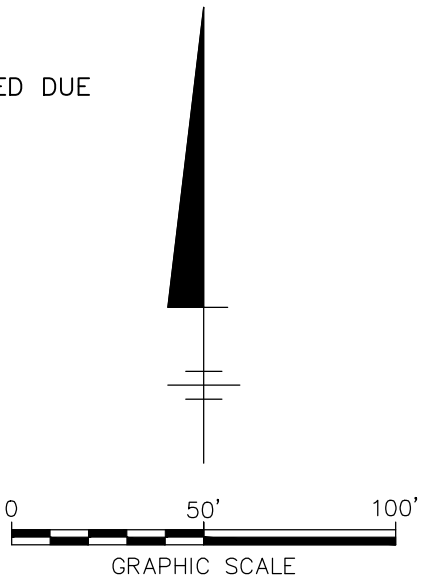
OVERBURDEN

SHALLOW BEDROCK

INTERMEDIATE BEDROCK

- LEGEND:
- 3M OVERBURDEN MONITORING WELL
 - 3M SHALLOW BEDROCK MONITORING WELL
 - 3M INTERMEDIATE BEDROCK MONITORING WELL
 - 3M ABANDONED MONITORING WELL
 - JMT MONITORING WELL
 - ABANDONED JMT MONITORING WELL
 - EXISTING VAPOR MONITORING POINT
 - ABANDONED VAPOR MONITORING POINT
 - FORMER RESIDENTIAL STRUCTURE
 - SITE BOUNDARY
 - APPROXIMATE PROPERTY LINE
 - ERIE CANAL
 - GENERAL GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR (ft. msl.)
 - WATER LEVEL ELEVATION (ft. msl.)
 - FEET ABOVE MEAN SEA LEVEL
 - NOT MEASURED
 - NOT AVAILABLE
 - WATER ELEVATION NOT INCLUDED IN GROUNDWATER SURFACE CONTOURS

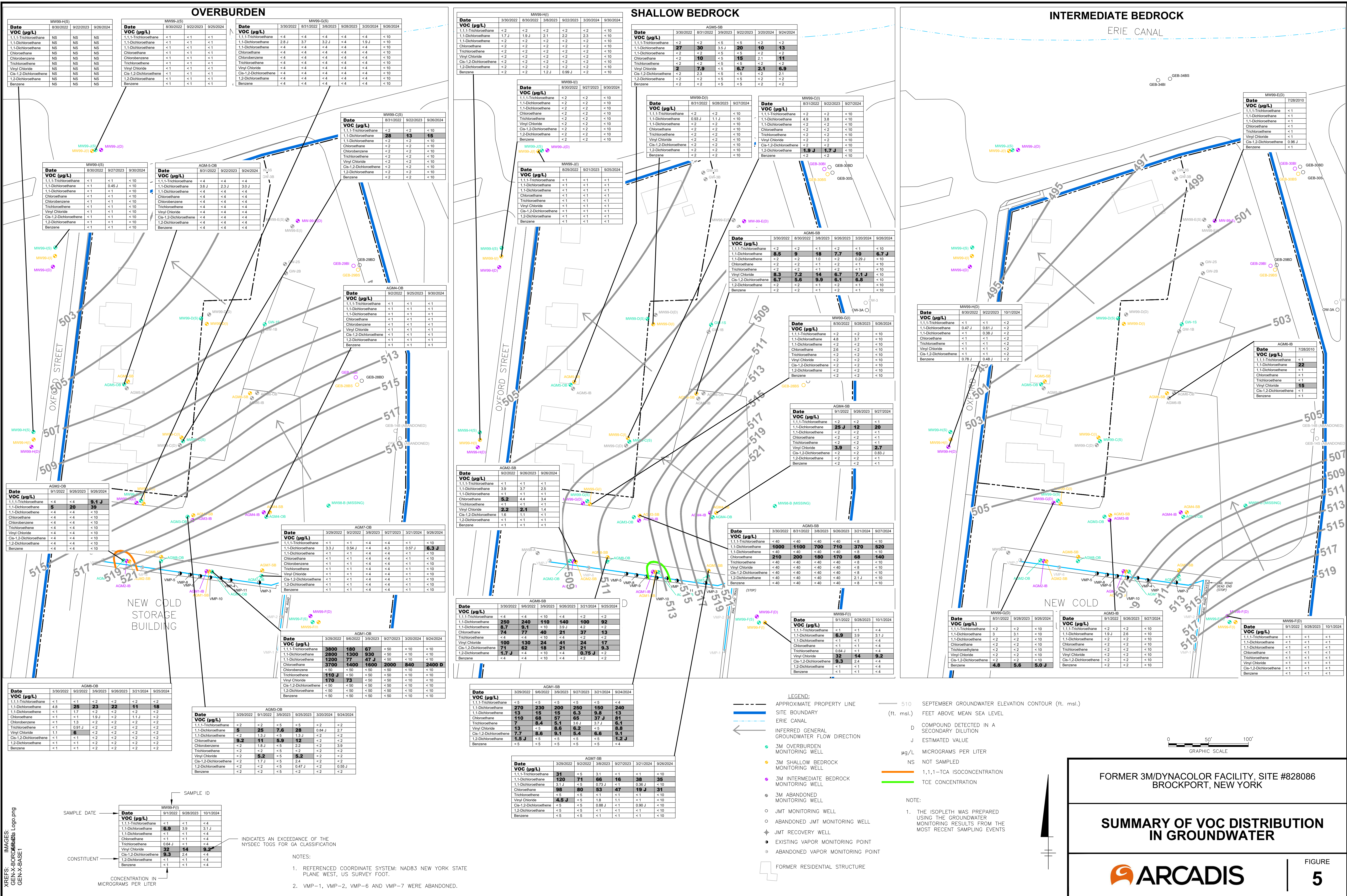
- NOTES:
- REFERENCED COORDINATE SYSTEM: NAD83 NEW YORK STATE PLANE WEST, US SURVEY FOOT.
 - VMP-1, VMP-2, VMP-6 AND VMP-7 WERE ABANDONED.
 - THE GROUNDWATER LEVEL MEASUREMENT AT AGM7-SB WAS EXCLUDED DUE TO AN INACCURATE FIELD READING.

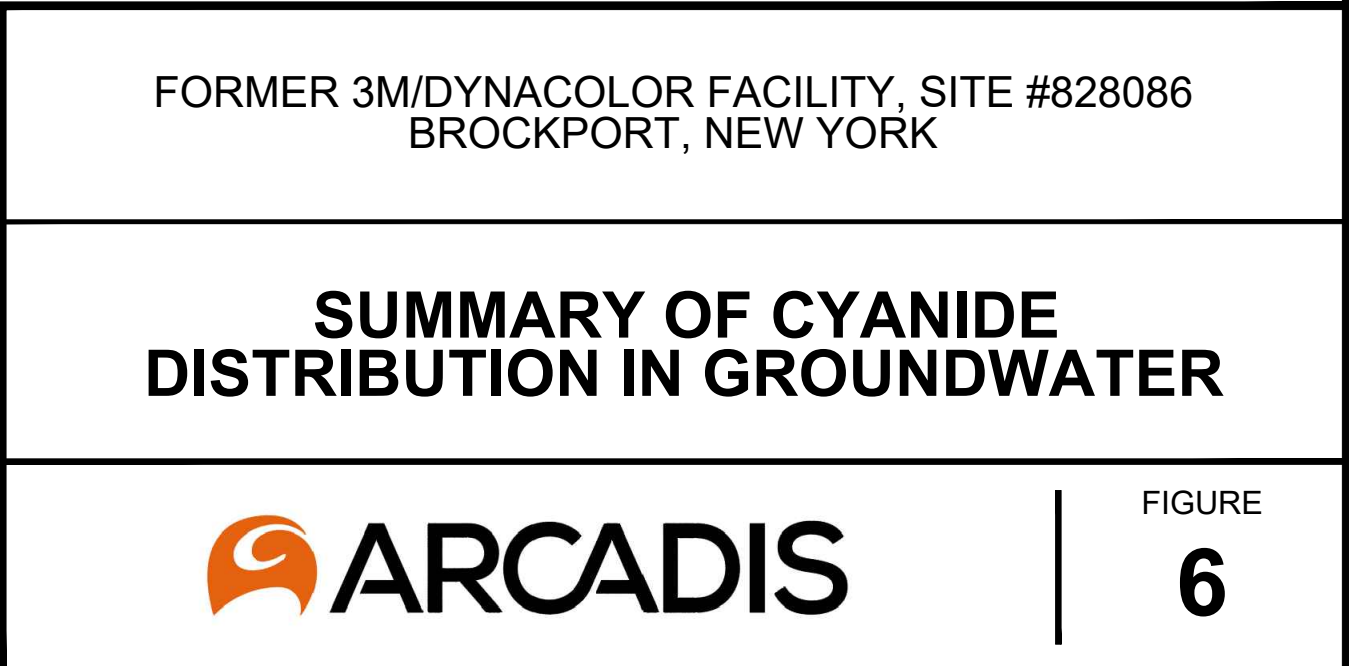


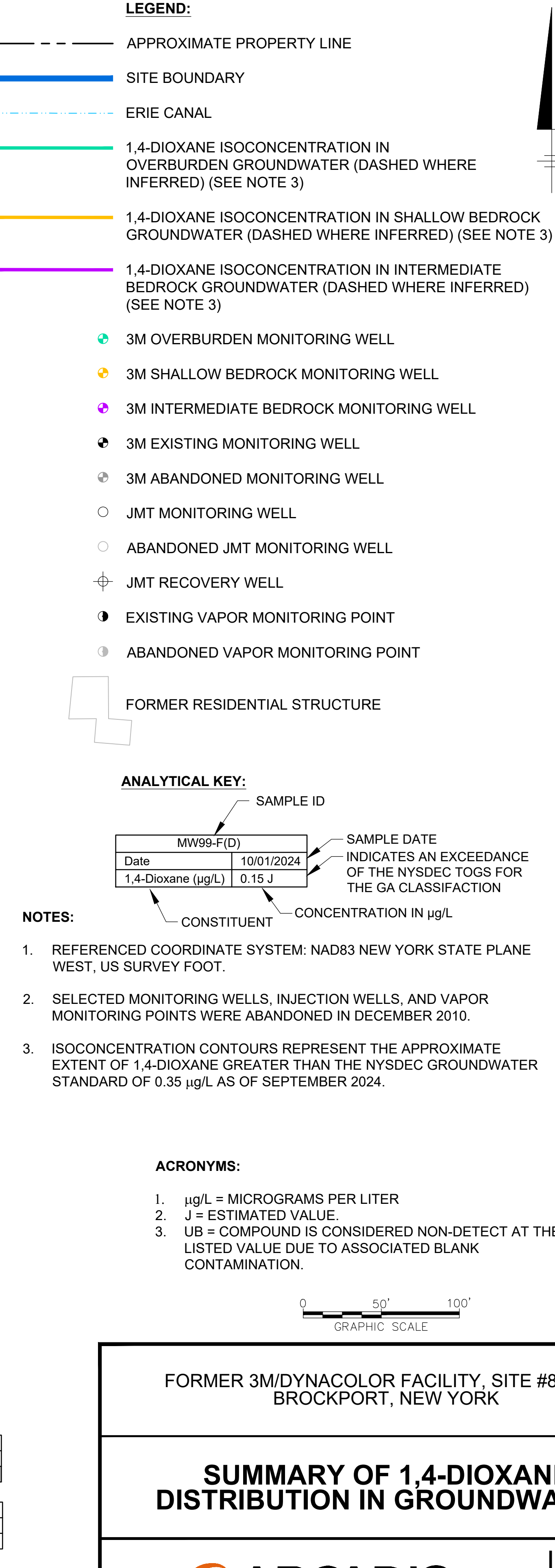
FORMER 3M/DYNACOLOR FACILITY, SITE #828086
BROCKPORT, NEW YORK

GROUNDWATER ELEVATIONS AND
GENERAL FLOW DIRECTIONS -
SEPTEMBER 2024



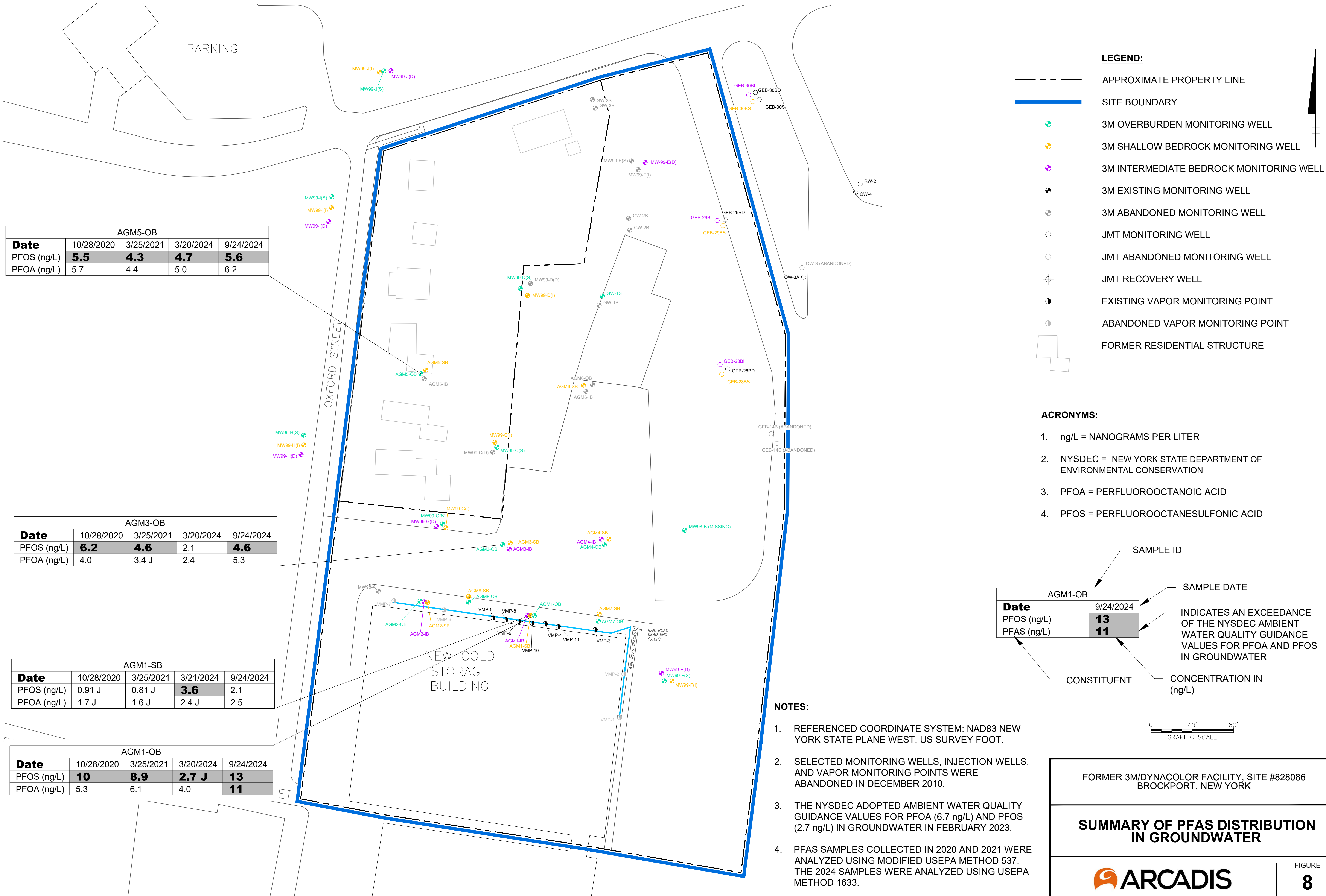


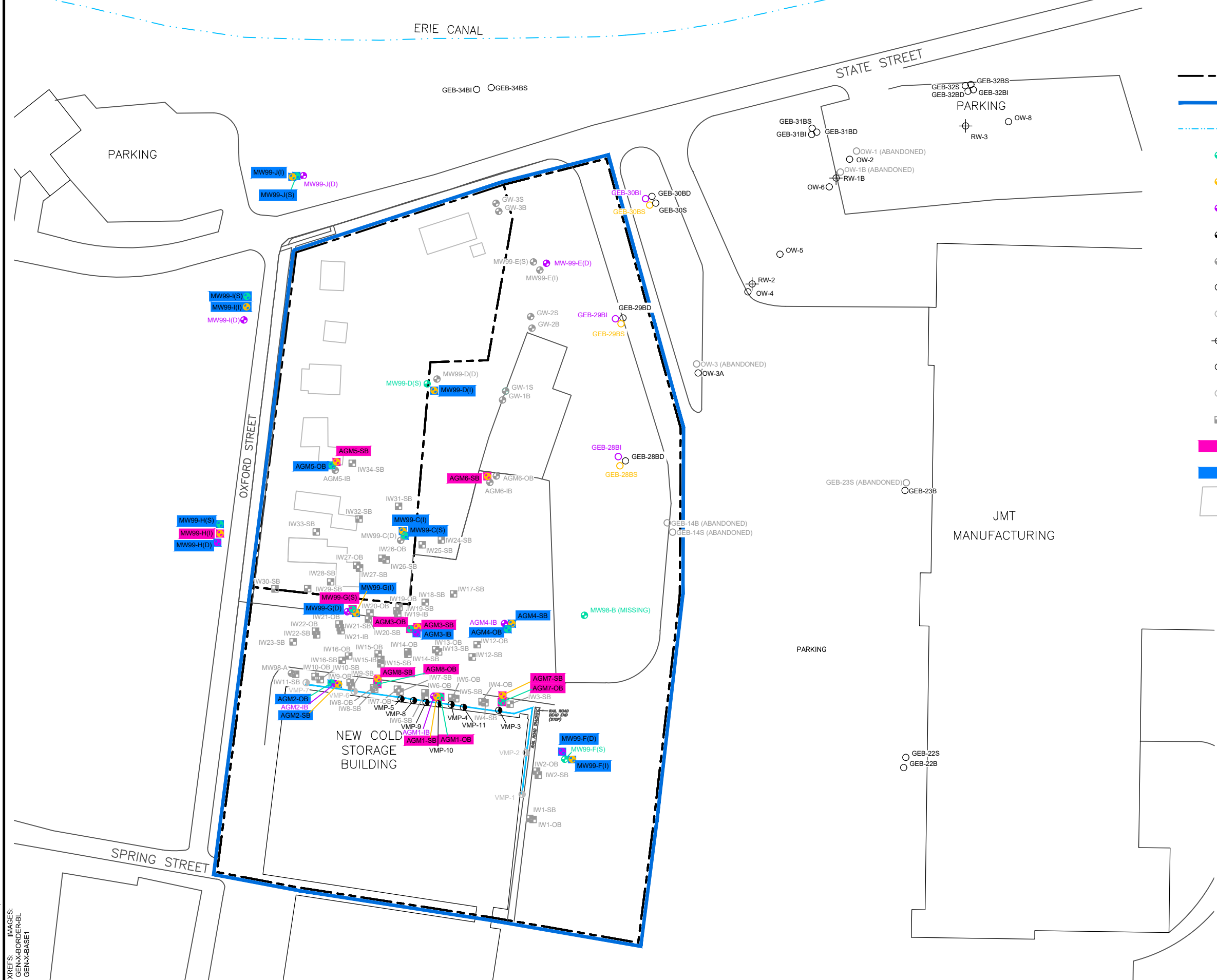




C:\Users\kimberly\OneDrive\Documents\Arcadis\ACC-US\AUS-00000000-3M_BROCKPORT_NY\Project Files\10_WIP\10T_ARC_ENW202501-DWG\FR2024-F08-PFAS SUMMARY IN GW.dwg LAYOUT: 8. PAGES: 1/30/2025 4:46 AM ACADVER: 24.2S (LMS TECH) PLOTSETUP: PLOTSTYLETABLE: PLOTTED: 2/28/2025 12:28 PM BY: JAMICELI, KIMBERLY

IMAGES:
GEN-X-BROCKPORT-Logo.png
GEN-X-BASE1





LEGEND:

- APPROXIMATE PROPERTY LINE
- SITE BOUNDARY
- ERIE CANAL
- 3M OVERBURDEN MONITORING WELL
- 3M SHALLOW BEDROCK MONITORING WELL
- 3M INTERMEDIATE BEDROCK MONITORING WELL
- 3M EXISTING MONITORING WELL
- 3M ABANDONED MONITORING WELL
- JMT MONITORING WELL
- ABANDONED JMT MONITORING WELL
- JMT RECOVERY WELL
- EXISTING VAPOR MONITORING POINT
- ABANDONED VAPOR MONITORING POINT
- ABANDONED INJECTION WELL
- SEMI-ANNUAL SAMPLING
- ANNUAL SAMPLING
- FORMER RESIDENTIAL STRUCTURE

NOTES:

- REFERENCED COORDINATE SYSTEM: NAD83 NEW YORK STATE PLANE WEST, US SURVEY FOOT.
- SELECTED MONITORING WELLS, INJECTION WELLS, AND VAPOR MONITORING POINTS WERE ABANDONED IN DECEMBER 2010.
- MONITORING WELL GW-1S ABANDONED ON OCTOBER 28, 2024.

0 100' 200'

GRAPHIC SCALE

FORMER 3M/DYNACOLOR FACILITY, SITE #828086
BROOKPORT, NEW YORK

PROPOSED VOCs SAMPLING PLAN

ARCADIS

FIGURE
9







Appendix A

Institutional and Engineering Controls Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. **828066**

Site Name **Former 3M/Dynacolor Plant**

Site Address: 180 STATE STREET Zip Code: 14420

City/Town: Brockport

County: Monroe

Site Acreage: 5.500

Reporting Period: January 30, 2024 to January 30, 2025

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial

☒ ☐

7. Are all ICs in place and functioning as designed?

☒ ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**069.13-05-001**

Allens, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-002

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-003

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-004

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-005

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-006

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of

groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

069.13-05-007

Minnesota Mining and Mfg. Co.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

In accordance with the requirements of the Declaration of Covenants and Restrictions filed with the Monroe County Clerk's Office on 12/8/06 and the 10/28/04 Site Management Plan (including any subsequent amendments), the controls include: Property shall be prohibited from being used for purposes other than for industrial or restricted commercial uses, excluding day care, child care and medical care. The use of groundwater underlying the Property is prohibited without treatment rendering it safe for drinking water or industrial purposes. These Restrictions shall run with the land and shall be binding upon all future owners.

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 828066

Box 6

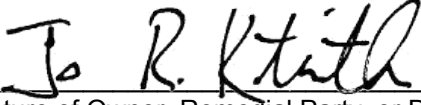
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James R. Kotsmith at _____,
print name print business address

am certifying as _____ (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

02/26/25

Date

Appendix B

Well Decommissioning Record

FIGURE

1 SITE NAME: Former 3M/Dynacolor Facility
Brockport, New York

MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: No. 828066
INSPECTOR: B. Kudla-Williams
DATE/TIME: 10/28/2024
WELL ID.: GW-1S

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....	X	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: GW-1S.....		
	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	
HEADSPACE READING (ppm) AND INSTRUMENT USED.....		
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)		
PROTECTIVE CASING MATERIAL TYPE:		
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):		
	NA	
	~2' Steel Stickup	
	Steel	
	4 Inches	
	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?	X	
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):		
20.83		
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):		
13.31		
MEASURE WELL DIAMETER (Inches):		
2 Inches		
WELL CASING MATERIAL:		
PVC		
PHYSICAL CONDITION OF VISIBLE WELL CASING:		
Good		
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE		
GW-1S painted on steel casing		
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....		
NA		
DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.		
Well accessible in paved parking lot; no obstructions.		
DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)		
AND ASSESS THE TYPE OF RESTORATION REQUIRED.		
Well on edge of paved parking area north of building.		
IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT		
(e.g. Gas station, salt pile, etc.):		
None.		
REMARKS:		
None.		

FIGURE 3 WELL DECOMMISSIONING RECORD

Site Name: 3M/Dynacolor Facility	Well I.D.: GW-1S
Site Location: Brockport, New York	Driller:
Drilling Co.: TREC Environmental, Inc.	Inspector: Bailey Kudla-Williams
	Date: 10/28/2024

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*																																																
<u>OVERDRILLING</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Interval Drilled</td><td style="text-align: center;">NA</td></tr> <tr><td>Drilling Method(s)</td><td style="text-align: center;">NA</td></tr> <tr><td>Borehole Dia. (in.)</td><td style="text-align: center;">NA</td></tr> <tr><td>Temporary Casing Installed? (y/n)</td><td style="text-align: center;">NA</td></tr> <tr><td>Depth temporary casing installed</td><td style="text-align: center;">NA</td></tr> <tr><td>Casing type/dia. (in.)</td><td style="text-align: center;">NA</td></tr> <tr><td>Method of installing</td><td style="text-align: center;">NA</td></tr> </table> <u>CASING PULLING</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Method employed</td><td style="text-align: center;">Manual</td></tr> <tr><td>Casing retrieved (feet)</td><td style="text-align: center;">0-4' bgs</td></tr> <tr><td>Casing type/dia. (in)</td><td style="text-align: center;">2" PVC</td></tr> </table> <u>CASING PERFORATING</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Equipment used</td><td style="text-align: center;">NA</td></tr> <tr><td>Number of perforations/foot</td><td style="text-align: center;">NA</td></tr> <tr><td>Size of perforations</td><td style="text-align: center;">NA</td></tr> <tr><td>Interval perforated</td><td style="text-align: center;">NA</td></tr> </table> <u>GROUTING</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Interval grouted (FBLS)</td><td style="text-align: center;">0 - 20.83' bgs</td></tr> <tr><td># of batches prepared</td><td style="text-align: center;">1</td></tr> <tr><td colspan="2">For each batch record:</td></tr> <tr><td>Quantity of water used (gal.)</td><td style="text-align: center;">4 gal</td></tr> <tr><td>Quantity of cement used (lbs.)</td><td style="text-align: center;">25 lbs</td></tr> <tr><td>Cement type</td><td style="text-align: center;">Portland I/II</td></tr> <tr><td>Quantity of bentonite used (lbs.)</td><td style="text-align: center;">2 lbs</td></tr> <tr><td>Quantity of calcium chloride used (lbs.)</td><td style="text-align: center;">NA</td></tr> <tr><td>Volume of grout prepared (gal.)</td><td style="text-align: center;">5 gal</td></tr> <tr><td>Volume of grout used (gal.)</td><td style="text-align: center;">5 gal</td></tr> </table>	Interval Drilled	NA	Drilling Method(s)	NA	Borehole Dia. (in.)	NA	Temporary Casing Installed? (y/n)	NA	Depth temporary casing installed	NA	Casing type/dia. (in.)	NA	Method of installing	NA	Method employed	Manual	Casing retrieved (feet)	0-4' bgs	Casing type/dia. (in)	2" PVC	Equipment used	NA	Number of perforations/foot	NA	Size of perforations	NA	Interval perforated	NA	Interval grouted (FBLS)	0 - 20.83' bgs	# of batches prepared	1	For each batch record:		Quantity of water used (gal.)	4 gal	Quantity of cement used (lbs.)	25 lbs	Cement type	Portland I/II	Quantity of bentonite used (lbs.)	2 lbs	Quantity of calcium chloride used (lbs.)	NA	Volume of grout prepared (gal.)	5 gal	Volume of grout used (gal.)	5 gal	Depth (feet)
Interval Drilled	NA																																																
Drilling Method(s)	NA																																																
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Quantity of calcium chloride used (lbs.)	NA																																																
Volume of grout prepared (gal.)	5 gal																																																
Volume of grout used (gal.)	5 gal																																																
COMMENTS: Casing cut 4' bgs. Casing grouted in place from 4-20.83' bgs.	*Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.																																																

TREC Environmental, Inc.

Drilling Contractor

Department Representative

Appendix C

Laboratory Analytical Reports

All files are provided on disk.

Appendix D

Data Usability Summary Reports

3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compound (VOC) and Miscellaneous Analyses

SDG # 480-218101-1

Analyses Performed By:
Eurofins TestAmerica
Buffalo, New York

Report # 54621R
Review Level: Tier III
Project: 30169183.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-218101-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	TOC
AGM-1-OB-20240320	480-218101-1	Water	03/20/24		X	X
AGM-1-SB-20240321	480-218101-2	Water	03/21/24		X	X
AGM-3-OB-20240320	480-218101-3	Water	03/20/24		X	X
AGM-3-SB-20240321	480-218101-4	Water	03/21/24		X	
AGM-5-SB-20240320	480-218101-5	Water	03/20/24		X	
AGM-6-SB-20240320	480-218101-6	Water	03/20/24		X	
AGM-7-OB-20240321	480-218101-7	Water	03/21/24		X	X
AGM-7-SB-20240321	480-218101-8	Water	03/21/24		X	
AGM-8-OB-20240321	480-218101-9	Water	03/21/24		X	X
AGM-8-SB-20240321	480-218101-10	Water	03/21/24		X	
DUP-01-20240320	480-218101-11	Water	03/20/24	MW99-G(S)-20240320	X	
MW99-G(S)-20240320	480-218101-12	Water	03/20/24		X	
MW99-H(I)-20240320	480-218101-13	Water	03/20/24		X	
FB-01-20240320	480-218101-14	Water	03/20/24		X	
FB-02-20240321	480-218101-15	Water	03/21/24		X	
EB-01-20240320	480-218101-16	Water	03/20/24		X	
TB-01-20240321	480-218101-17	Water	03/21/24		X	

Notes:

VOC = volatile organic compounds

TOC = total organic carbon

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C. Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C* (SOP #HW-24, October 2006); and the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

DATA USABILITY SUMMARY REPORT

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits with the exceptions noted below.

Sample ID	Initial/Continuing	Compound	Criteria
FB-02-20240321 EB-01-20240320 TB-01-20240321	CCV%D	Bromoform	+21.5 %
AGM-1-SB-20240321 AGM-3-OB-20240320 AGM-6-SB-20240320 AGM-7-SB-20240321 DUP-01-20240320 MW99-G(S)-20240320 FB-01-20240320		Vinyl chloride	-20.5%
		Bromomethane	-21.6 %
		Chloroethane	-22.3 %

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase/decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

DATA USABILITY SUMMARY REPORT

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was performed on sample MW99-G(S)-20240320 exhibited recoveries and RPDs within the control limit with the exceptions noted below.

Sample ID	Compound	MS Recovery	MSD Recovery
MW99-G(S)-20240320	2-Chloroethyl vinyl ether	<10%	<10%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J

DATA USABILITY SUMMARY REPORT

Control Limit	Sample Result	Qualification
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample ID	Compound
MW99-G(S)-20240320	Chloromethane

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
MW99-G(S)-20240320 / DUP-01-20240320	1,1-Dichloroethane	1.9 J	4.0 U	AC

Notes:

AC = acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Tentatively identified compounds (TICs) were qualified as JN.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
D. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate (MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Inorganic Analysis Introduction

Analyses were performed according to method USEPA SM 5310C. Data were reviewed in accordance with the USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Organic Carbon by SM5310	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MSMSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MSMSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis was not performed on samples from this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

The laboratory duplicate analysis was not performed on samples from this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not requested for TOC analysis.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM 5310C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R = percent recovery

RPD = relative percent difference

SAMPLE COMPLIANCE REPORT

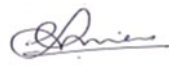
Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹		Noncompliance
					VOC	TOC	
ccv480-218101-1	03/20/24	SW846	AGM-1-OB-20240320	Water	No	Yes	VOC – preservative
	03/21/24	SW846	AGM-1-SB-20240321	Water	No	Yes	VOC – preservative, CCV %D
	03/20/24	SW846	AGM-3-OB-20240320	Water	No	Yes	VOC – preservative, CCV %D
	03/21/24	SW846	AGM-3-SB-20240321	Water	No	--	VOC – preservative
	03/20/24	SW846	AGM-5-SB-20240320	Water	No	--	VOC – preservative
	03/20/24	SW846	AGM-6-SB-20240320	Water	No	--	VOC – preservative, CCV %D
	03/21/24	SW846	AGM-7-OB-20240321	Water	No	Yes	VOC – preservative
	03/21/24	SW846	AGM-7-SB-20240321	Water	No	--	VOC – preservative, CCV %D
	03/21/24	SW846	AGM-8-OB-20240321	Water	No	Yes	VOC – preservative
	03/21/24	SW846	AGM-8-SB-20240321	Water	No	--	VOC – preservative
	03/20/24	SW846	DUP-01-20240320	Water	No	--	VOC – preservative, CCV %D
	03/20/24	SW846	MW99-G(S)-20240320	Water	No	--	VOC – preservative, CCV %D, MS/MSD, RPD
	03/20/24	SW846	MW99-H(I)-20240320	Water	No	--	VOC – preservative
	03/20/24	SW846	FB-01-20240320	Water	No	--	VOC – preservative, CCV %D
	03/21/24	SW846	FB-02-20240321	Water	No	--	VOC – preservative, CCV %D
	03/20/24	SW846	EB-01-20240320	Water	No	--	VOC – preservative, CCV %D
	03/21/24	SW846	TB-01-20240321	Water	No	--	VOC – preservative, CCV %D

Note:

1. Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Hima J D

SIGNATURE: 

DATE: June 24, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 25, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Client Information						Samplers: B. KudlaWilliams and K. Fleming								Lab PM: Mason, Becky C								Carrier Tracking No(s):								COC No:																																																					
Client Contact: Ryan Clare						Phone: Kaitlyn's cell: 619-727-1921								E-Mail: Becky.Mason@Eurofinset.com								State of Origin: New York								Page: 1 of 2																																																					
Company: Arcadis of New York, Inc.						PWSID:								Analysis Requested																Job #:																																																					
Address: 100 Chestnut Street Suite 1020						Due Date Requested:																								Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)																																																					
City: Rochester						TAT Requested (days): Standard (10)																																																																													
State, Zip: NY, 14604						Compliance Project: Δ Yes Δ No																																																																													
Phone: 1-585-662-4057						PO #:																																																																													
Email: Ryan.Clare@arcadis.com						WO #:																																																																													
Project Name: 3M-Brockport						Project #: 30208031																								Other:																																																					
Site: Brockport, NY						SSOW#:																																																																													
Sample Identification						Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air)		Field Filtered Sample (Yes or No)		Perform MSMSD (Yes or No)		SM5310D - TOC		8260C - 8260 (MOD) ASP00 with Tics		Total Number of containers		Special Instructions/Note:																																																											
AGM-1-OB- 20240320						3/20/24		1755		G		Water		N		N		X		X		6																																																													
AGM-1-SB- 20240321						3/21/24		1045		G		Water		N		N		X		X		6																																																													
AGM-3-OB- 20240320						3/20/24		1525		G		Water		N		N		X		X		6																																																													
AGM-3-SB- 20240321						3/21/24		1005		G		Water		N		N				X		3																																																													
AGM-5-SB- 20240320						3/20/24		1035		G		Water		N		N				X		3																																																													
AGM-6-SB- 20240320						3/20/24		1630		G		Water		N		N				X		3																																																													
AGM-7-OB- 20240321						3/21/24		1525		G		Water		N		N		X		X		3																																																													
AGM-7-SB- 20240321						3/21/24		1350		G		Water		N		N				X		3																																																													
AGM-8-OB- 20240321						3/21/24		1155		G		Water		N		N		X		X		3																																																													
AGM-8-SB- 20240321						3/21/24		1320		G		Water		N		N				X		3																																																													
DUP-01- 20240320						3/20/24		-		G		Water		N		N				X		3																																																													
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For _____ Months																																																																					
Deliverable Requested: I, II, III, IV, Other (specify)														Special Instructions/QC Requirements:																																																																					
Empty Kit Relinquished by:														Date:														Time:														Method of Shipment:																																									
Relinquished by: [Signature]														Date/Time: 3/21/2024 1700														Company: Arcadis														Received by: [Signature]														Date/Time: 3/22/24 0900														Company: EET													
Relinquished by: [Signature]														Date/Time: 3/22/24 0920														Company: EET														Received by: [Signature]														Date/Time: 3-25-24 900														Company: TIAR													
Relinquished by:														Date/Time:														Company:														Received by:														Date/Time:														Company:													
Custody Seals Intact: Δ Yes Δ No														Custody Seal No.:														Cooler Temperature(s) °C and Other Remarks: 3.0 TCF																																																							

Client Information						Samplers: B. KudlaWilliams and K. Fleming		Lab PM: Mason, Becky C		Carrier Tracking No(s):		COC No:							
Client Contact: Ryan Clare						Phone: Kaitlyn's cell: 619-727-1921		E-Mail: Becky.Mason@Eurofinset.com		State of Origin: New York		Page: 2 of 2							
Company: Arcadis of New York, Inc.						PWSID:		Analysis Requested					Job #:						
Address: 100 Chestnut Street Suite 1020						Due Date Requested:							Total Number of containers	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:					
City: Rochester						TAT Requested (days): Standard (10)													
State, Zip: NY, 14604						Compliance Project: Δ Yes Δ No													
Phone: 1-585-662-4057						PO #:													
Email: Ryan.Clare@arcadis.com						WO #:													
Project Name: 3M-Brockport						Project #: 30208031													
Site: Brockport, NY						SSOW#:													
Sample Identification						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5310D - TOC	8260C - 8260 (MOD) ASP00 with Tics						Special Instructions/Note:
								Preservation Code:	X	X	SA								
MW99-G(S)- 20240320						3/20/24	1305	G	Water	N	Y		X						9
MW99-H(I)- 20240320						3/20/24	1500	G	Water	N	N		X						3
									Water										1
FB-01- 20240320						3/20/24	1610	G	Water	N	N		X						3
FB-02- 20240321						3/21/24	1430	G	Water	N	N		X						3
									Water										
EB-01- 20240320						3/20/24	1700	G	Water	N	N		X						3
									Water										1
									Water										1
									Water										1
TB-01- 20240321								G	Water	N	N		X						4
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:									
Empty Kit Relinquished by:						Date:		Time:		Method of Shipment:									
Relinquished by: [Signature]						Date/Time: 3/21/2024 1700		Company: Arcadis		Received by: [Signature] Date/Time: 3/22/24 0900 Company: CEY									
Relinquished by: [Signature]						Date/Time: 3/22/24 0920		Company: CEY		Received by: [Signature] Date/Time: 3-25-24 900 Company: TAB									
Relinquished by:						Date/Time:		Company:		Received by:						Date/Time:	Company:		
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:															

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-1-OB-20240320

Lab Sample ID: 480-218101-1

Date Collected: 03/20/24 17:55

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			03/26/24 18:48	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			03/26/24 18:48	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			03/26/24 18:48	10
1,1-Dichloroethane	ND		10	3.8	ug/L			03/26/24 18:48	10
1,1-Dichloroethene	ND		10	2.9	ug/L			03/26/24 18:48	10
1,2-Dichloroethane	ND		10	2.1	ug/L			03/26/24 18:48	10
1,2-Dichloropropane	ND		10	7.2	ug/L			03/26/24 18:48	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			03/26/24 18:48	10
Acrolein	ND		200	9.1	ug/L			03/26/24 18:48	10
Acrylonitrile	ND		200	8.3	ug/L			03/26/24 18:48	10
Benzene	ND		10	4.1	ug/L			03/26/24 18:48	10
Bromodichloromethane	ND		10	3.9	ug/L			03/26/24 18:48	10
Bromoform	ND		10	2.6	ug/L			03/26/24 18:48	10
Bromomethane	ND		10	6.9	ug/L			03/26/24 18:48	10
Carbon tetrachloride	ND		10	2.7	ug/L			03/26/24 18:48	10
Chlorobenzene	ND		10	7.5	ug/L			03/26/24 18:48	10
Chloroethane	840		10	3.2	ug/L			03/26/24 18:48	10
Chloroform	ND		10	3.4	ug/L			03/26/24 18:48	10
Chloromethane	ND		10	3.5	ug/L			03/26/24 18:48	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			03/26/24 18:48	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			03/26/24 18:48	10
Dibromochloromethane	ND		10	3.2	ug/L			03/26/24 18:48	10
Ethylbenzene	ND		10	7.4	ug/L			03/26/24 18:48	10
Methylene Chloride	ND		20	4.4	ug/L			03/26/24 18:48	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			03/26/24 18:48	10
o-Xylene	ND		10	7.6	ug/L			03/26/24 18:48	10
Tetrachloroethene	ND		10	3.6	ug/L			03/26/24 18:48	10
Toluene	ND		10	5.1	ug/L			03/26/24 18:48	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			03/26/24 18:48	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			03/26/24 18:48	10
Trichloroethene	ND		10	4.6	ug/L			03/26/24 18:48	10
Vinyl chloride	ND		10	9.0	ug/L			03/26/24 18:48	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 18:48	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					03/26/24 18:48	10
4-Bromofluorobenzene (Surr)	106		73 - 120					03/26/24 18:48	10
Toluene-d8 (Surr)	102		80 - 120					03/26/24 18:48	10
Dibromofluoromethane (Surr)	100		75 - 123					03/26/24 18:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	80.9		1.0	0.43	mg/L			03/27/24 21:08	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-1-SB-20240321

Lab Sample ID: 480-218101-2

Date Collected: 03/21/24 10:45

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/25/24 17:42	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/25/24 17:42	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/25/24 17:42	5
1,1-Dichloroethane	150		5.0	1.9	ug/L			03/25/24 17:42	5
1,1-Dichloroethene	9.8		5.0	1.5	ug/L			03/25/24 17:42	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/25/24 17:42	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/25/24 17:42	5
2-Chloroethyl vinyl ether	R ND		25	4.8	ug/L			03/25/24 17:42	5
Acrolein	ND		100	4.6	ug/L			03/25/24 17:42	5
Acrylonitrile	ND		100	4.2	ug/L			03/25/24 17:42	5
Benzene	ND		5.0	2.1	ug/L			03/25/24 17:42	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/25/24 17:42	5
Bromoform	ND		5.0	1.3	ug/L			03/25/24 17:42	5
Bromomethane	ND UJ		5.0	3.5	ug/L			03/25/24 17:42	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/25/24 17:42	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/25/24 17:42	5
Chloroethane	37 J		5.0	1.6	ug/L			03/25/24 17:42	5
Chloroform	ND		5.0	1.7	ug/L			03/25/24 17:42	5
Chloromethane	ND		5.0	1.8	ug/L			03/25/24 17:42	5
cis-1,2-Dichloroethene	6.6		5.0	4.1	ug/L			03/25/24 17:42	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/25/24 17:42	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/25/24 17:42	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/25/24 17:42	5
Methylene Chloride	ND		10	2.2	ug/L			03/25/24 17:42	5
m-Xylene & p-Xylene	ND		10	3.3	ug/L			03/25/24 17:42	5
o-Xylene	ND		5.0	3.8	ug/L			03/25/24 17:42	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/25/24 17:42	5
Toluene	ND		5.0	2.6	ug/L			03/25/24 17:42	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/25/24 17:42	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/25/24 17:42	5
Trichloroethene	3.7 J		5.0	2.3	ug/L			03/25/24 17:42	5
Vinyl chloride	ND UJ		5.0	4.5	ug/L			03/25/24 17:42	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 17:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					03/25/24 17:42	5
4-Bromofluorobenzene (Surr)	90		73 - 120					03/25/24 17:42	5
Toluene-d8 (Surr)	93		80 - 120					03/25/24 17:42	5
Dibromofluoromethane (Surr)	94		75 - 123					03/25/24 17:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	13.1		1.0	0.43	mg/L			03/27/24 21:36	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-3-OB-20240320

Lab Sample ID: 480-218101-3

Date Collected: 03/20/24 15:25

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/25/24 18:05	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/25/24 18:05	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/25/24 18:05	2
1,1-Dichloroethane	0.84	J	2.0	0.76	ug/L			03/25/24 18:05	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/25/24 18:05	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/25/24 18:05	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/25/24 18:05	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			03/25/24 18:05	2
Acrolein	ND		40	1.8	ug/L			03/25/24 18:05	2
Acrylonitrile	ND		40	1.7	ug/L			03/25/24 18:05	2
Benzene	ND		2.0	0.82	ug/L			03/25/24 18:05	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/25/24 18:05	2
Bromoform	ND		2.0	0.52	ug/L			03/25/24 18:05	2
Bromomethane	ND UJ		2.0	1.4	ug/L			03/25/24 18:05	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/25/24 18:05	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/25/24 18:05	2
Chloroethane	ND UJ		2.0	0.64	ug/L			03/25/24 18:05	2
Chloroform	ND		2.0	0.68	ug/L			03/25/24 18:05	2
Chloromethane	ND		2.0	0.70	ug/L			03/25/24 18:05	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/25/24 18:05	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/25/24 18:05	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/25/24 18:05	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/25/24 18:05	2
Methylene Chloride	ND		4.0	0.88	ug/L			03/25/24 18:05	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			03/25/24 18:05	2
o-Xylene	ND		2.0	1.5	ug/L			03/25/24 18:05	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/25/24 18:05	2
Toluene	ND		2.0	1.0	ug/L			03/25/24 18:05	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/25/24 18:05	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/25/24 18:05	2
Trichloroethene	ND		2.0	0.92	ug/L			03/25/24 18:05	2
Vinyl chloride	ND UJ		2.0	1.8	ug/L			03/25/24 18:05	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 18:05	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					03/25/24 18:05	2
4-Bromofluorobenzene (Surr)	93		73 - 120					03/25/24 18:05	2
Toluene-d8 (Surr)	90		80 - 120					03/25/24 18:05	2
Dibromofluoromethane (Surr)	94		75 - 123					03/25/24 18:05	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	15.1		1.0	0.43	mg/L			03/27/24 22:04	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-3-SB-20240321

Lab Sample ID: 480-218101-4

Date Collected: 03/21/24 10:05

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			03/26/24 19:11	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			03/26/24 19:11	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			03/26/24 19:11	8
1,1-Dichloroethane	370		8.0	3.0	ug/L			03/26/24 19:11	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			03/26/24 19:11	8
1,2-Dichloroethane	2.1	J	8.0	1.7	ug/L			03/26/24 19:11	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			03/26/24 19:11	8
2-Chloroethyl vinyl ether	R ND		40	7.7	ug/L			03/26/24 19:11	8
Acrolein	ND		160	7.3	ug/L			03/26/24 19:11	8
Acrylonitrile	ND		160	6.6	ug/L			03/26/24 19:11	8
Benzene	ND		8.0	3.3	ug/L			03/26/24 19:11	8
Bromodichloromethane	ND		8.0	3.1	ug/L			03/26/24 19:11	8
Bromoform	ND		8.0	2.1	ug/L			03/26/24 19:11	8
Bromomethane	ND		8.0	5.5	ug/L			03/26/24 19:11	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			03/26/24 19:11	8
Chlorobenzene	ND		8.0	6.0	ug/L			03/26/24 19:11	8
Chloroethane	68		8.0	2.6	ug/L			03/26/24 19:11	8
Chloroform	ND		8.0	2.7	ug/L			03/26/24 19:11	8
Chloromethane	ND		8.0	2.8	ug/L			03/26/24 19:11	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			03/26/24 19:11	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			03/26/24 19:11	8
Dibromochloromethane	ND		8.0	2.6	ug/L			03/26/24 19:11	8
Ethylbenzene	ND		8.0	5.9	ug/L			03/26/24 19:11	8
Methylene Chloride	ND		16	3.5	ug/L			03/26/24 19:11	8
m-Xylene & p-Xylene	ND		16	5.3	ug/L			03/26/24 19:11	8
o-Xylene	ND		8.0	6.1	ug/L			03/26/24 19:11	8
Tetrachloroethene	ND		8.0	2.9	ug/L			03/26/24 19:11	8
Toluene	ND		8.0	4.1	ug/L			03/26/24 19:11	8
trans-1,2-Dichloroethene	7.3	J	8.0	7.2	ug/L			03/26/24 19:11	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			03/26/24 19:11	8
Trichloroethene	ND		8.0	3.7	ug/L			03/26/24 19:11	8
Vinyl chloride	ND		8.0	7.2	ug/L			03/26/24 19:11	8

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 19:11	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/26/24 19:11	8
4-Bromofluorobenzene (Surr)	102		73 - 120		03/26/24 19:11	8
Toluene-d8 (Surr)	103		80 - 120		03/26/24 19:11	8
Dibromofluoromethane (Surr)	104		75 - 123		03/26/24 19:11	8

Client Sample ID: AGM-5-SB-20240320

Lab Sample ID: 480-218101-5

Date Collected: 03/20/24 10:35

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/26/24 19:35	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/26/24 19:35	2

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-5-SB-20240320

Lab Sample ID: 480-218101-5

Date Collected: 03/20/24 10:35

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/26/24 19:35	2
1,1-Dichloroethane	10		2.0	0.76	ug/L			03/26/24 19:35	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/26/24 19:35	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/26/24 19:35	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/26/24 19:35	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			03/26/24 19:35	2
Acrolein	ND		40	1.8	ug/L			03/26/24 19:35	2
Acrylonitrile	ND		40	1.7	ug/L			03/26/24 19:35	2
Benzene	ND		2.0	0.82	ug/L			03/26/24 19:35	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/26/24 19:35	2
Bromoform	ND		2.0	0.52	ug/L			03/26/24 19:35	2
Bromomethane	ND		2.0	1.4	ug/L			03/26/24 19:35	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/26/24 19:35	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/26/24 19:35	2
Chloroethane	2.1		2.0	0.64	ug/L			03/26/24 19:35	2
Chloroform	ND		2.0	0.68	ug/L			03/26/24 19:35	2
Chloromethane	ND		2.0	0.70	ug/L			03/26/24 19:35	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/26/24 19:35	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/26/24 19:35	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/26/24 19:35	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/26/24 19:35	2
Methylene Chloride	ND		4.0	0.88	ug/L			03/26/24 19:35	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			03/26/24 19:35	2
o-Xylene	ND		2.0	1.5	ug/L			03/26/24 19:35	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/26/24 19:35	2
Toluene	ND		2.0	1.0	ug/L			03/26/24 19:35	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/26/24 19:35	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/26/24 19:35	2
Trichloroethene	ND		2.0	0.92	ug/L			03/26/24 19:35	2
Vinyl chloride	2.1		2.0	1.8	ug/L			03/26/24 19:35	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 19:35	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		03/26/24 19:35	2
4-Bromofluorobenzene (Surr)	106		73 - 120		03/26/24 19:35	2
Toluene-d8 (Surr)	103		80 - 120		03/26/24 19:35	2
Dibromofluoromethane (Surr)	105		75 - 123		03/26/24 19:35	2

Client Sample ID: AGM-6-SB-20240320

Lab Sample ID: 480-218101-6

Date Collected: 03/20/24 16:30

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/25/24 19:12	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/24 19:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/24 19:12	1
1,1-Dichloroethane	10		1.0	0.38	ug/L			03/25/24 19:12	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-6-SB-20240320

Lab Sample ID: 480-218101-6

Date Collected: 03/20/24 16:30

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.29	J	1.0	0.29	ug/L			03/25/24 19:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/24 19:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/24 19:12	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/25/24 19:12	1
Acrolein	ND		20	0.91	ug/L			03/25/24 19:12	1
Acrylonitrile	ND		20	0.83	ug/L			03/25/24 19:12	1
Benzene	ND		1.0	0.41	ug/L			03/25/24 19:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/24 19:12	1
Bromoform	ND		1.0	0.26	ug/L			03/25/24 19:12	1
Bromomethane	ND UJ		1.0	0.69	ug/L			03/25/24 19:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/24 19:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/24 19:12	1
Chloroethane	ND UJ		1.0	0.32	ug/L			03/25/24 19:12	1
Chloroform	ND		1.0	0.34	ug/L			03/25/24 19:12	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/24 19:12	1
cis-1,2-Dichloroethene	6.8		1.0	0.81	ug/L			03/25/24 19:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/24 19:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/24 19:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/24 19:12	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/25/24 19:12	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/25/24 19:12	1
o-Xylene	ND		1.0	0.76	ug/L			03/25/24 19:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/25/24 19:12	1
Toluene	ND		1.0	0.51	ug/L			03/25/24 19:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/24 19:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/24 19:12	1
Trichloroethene	ND		1.0	0.46	ug/L			03/25/24 19:12	1
Vinyl chloride	7.1	J	1.0	0.90	ug/L			03/25/24 19:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		03/25/24 19:12	1
4-Bromofluorobenzene (Surr)	92		73 - 120		03/25/24 19:12	1
Toluene-d8 (Surr)	93		80 - 120		03/25/24 19:12	1
Dibromofluoromethane (Surr)	93		75 - 123		03/25/24 19:12	1

Client Sample ID: AGM-7-OB-20240321

Lab Sample ID: 480-218101-7

Date Collected: 03/21/24 15:25

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/24 19:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/24 19:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/24 19:58	1
1,1-Dichloroethane	0.57	J	1.0	0.38	ug/L			03/26/24 19:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/24 19:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/24 19:58	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-7-OB-20240321

Lab Sample ID: 480-218101-7

Date Collected: 03/21/24 15:25

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/24 19:58	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/26/24 19:58	1
Acrolein	ND		20	0.91	ug/L			03/26/24 19:58	1
Acrylonitrile	ND		20	0.83	ug/L			03/26/24 19:58	1
Benzene	ND		1.0	0.41	ug/L			03/26/24 19:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/24 19:58	1
Bromoform	ND		1.0	0.26	ug/L			03/26/24 19:58	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/24 19:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/24 19:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/24 19:58	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/24 19:58	1
Chloroform	ND		1.0	0.34	ug/L			03/26/24 19:58	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/24 19:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/24 19:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/24 19:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/24 19:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/24 19:58	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/26/24 19:58	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/26/24 19:58	1
o-Xylene	ND		1.0	0.76	ug/L			03/26/24 19:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/24 19:58	1
Toluene	ND		1.0	0.51	ug/L			03/26/24 19:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/24 19:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/24 19:58	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/24 19:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/24 19:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		03/26/24 19:58	1
4-Bromofluorobenzene (Surr)	103		73 - 120		03/26/24 19:58	1
Toluene-d8 (Surr)	101		80 - 120		03/26/24 19:58	1
Dibromofluoromethane (Surr)	99		75 - 123		03/26/24 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	2.0		1.0	0.43	mg/L			03/27/24 22:33	1

Client Sample ID: AGM-7-SB-20240321

Lab Sample ID: 480-218101-8

Date Collected: 03/21/24 13:50

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/25/24 19:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/24 19:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/24 19:57	1
1,1-Dichloroethane	38		1.0	0.38	ug/L			03/25/24 19:57	1
1,1-Dichloroethene	0.36 J		1.0	0.29	ug/L			03/25/24 19:57	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-7-SB-20240321

Lab Sample ID: 480-218101-8

Date Collected: 03/21/24 13:50

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/24 19:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/24 19:57	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/25/24 19:57	1
Acrolein	ND		20	0.91	ug/L			03/25/24 19:57	1
Acrylonitrile	ND		20	0.83	ug/L			03/25/24 19:57	1
Benzene	ND		1.0	0.41	ug/L			03/25/24 19:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/24 19:57	1
Bromoform	ND		1.0	0.26	ug/L			03/25/24 19:57	1
Bromomethane	ND UJ		1.0	0.69	ug/L			03/25/24 19:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/24 19:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/24 19:57	1
Chloroethane	19 J		1.0	0.32	ug/L			03/25/24 19:57	1
Chloroform	ND		1.0	0.34	ug/L			03/25/24 19:57	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/24 19:57	1
cis-1,2-Dichloroethene	0.90 J		1.0	0.81	ug/L			03/25/24 19:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/24 19:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/24 19:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/24 19:57	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/25/24 19:57	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/25/24 19:57	1
o-Xylene	ND		1.0	0.76	ug/L			03/25/24 19:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/25/24 19:57	1
Toluene	ND		1.0	0.51	ug/L			03/25/24 19:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/24 19:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/24 19:57	1
Trichloroethene	ND		1.0	0.46	ug/L			03/25/24 19:57	1
Vinyl chloride	ND UJ		1.0	0.90	ug/L			03/25/24 19:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		03/25/24 19:57	1
4-Bromofluorobenzene (Surr)	86		73 - 120		03/25/24 19:57	1
Toluene-d8 (Surr)	90		80 - 120		03/25/24 19:57	1
Dibromofluoromethane (Surr)	94		75 - 123		03/25/24 19:57	1

Client Sample ID: AGM-8-OB-20240321

Lab Sample ID: 480-218101-9

Date Collected: 03/21/24 11:55

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/26/24 20:21	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/26/24 20:21	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/26/24 20:21	2
1,1-Dichloroethane	11		2.0	0.76	ug/L			03/26/24 20:21	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/26/24 20:21	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/26/24 20:21	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/26/24 20:21	2

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-8-OB-20240321

Lab Sample ID: 480-218101-9

Date Collected: 03/21/24 11:55

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	R	ND	10	1.9	ug/L			03/26/24 20:21	2
Acrolein	ND		40	1.8	ug/L			03/26/24 20:21	2
Acrylonitrile	ND		40	1.7	ug/L			03/26/24 20:21	2
Benzene	ND		2.0	0.82	ug/L			03/26/24 20:21	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/26/24 20:21	2
Bromoform	ND		2.0	0.52	ug/L			03/26/24 20:21	2
Bromomethane	ND		2.0	1.4	ug/L			03/26/24 20:21	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/26/24 20:21	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/26/24 20:21	2
Chloroethane	1.1	J	2.0	0.64	ug/L			03/26/24 20:21	2
Chloroform	ND		2.0	0.68	ug/L			03/26/24 20:21	2
Chloromethane	ND		2.0	0.70	ug/L			03/26/24 20:21	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/26/24 20:21	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/26/24 20:21	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/26/24 20:21	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/26/24 20:21	2
Methylene Chloride	ND		4.0	0.88	ug/L			03/26/24 20:21	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			03/26/24 20:21	2
o-Xylene	ND		2.0	1.5	ug/L			03/26/24 20:21	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/26/24 20:21	2
Toluene	ND		2.0	1.0	ug/L			03/26/24 20:21	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/26/24 20:21	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/26/24 20:21	2
Trichloroethene	ND		2.0	0.92	ug/L			03/26/24 20:21	2
Vinyl chloride	ND		2.0	1.8	ug/L			03/26/24 20:21	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 20:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/26/24 20:21	2
4-Bromofluorobenzene (Surr)	103		73 - 120		03/26/24 20:21	2
Toluene-d8 (Surr)	103		80 - 120		03/26/24 20:21	2
Dibromofluoromethane (Surr)	103		75 - 123		03/26/24 20:21	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	10.9		1.0	0.43	mg/L			03/27/24 23:01	1

Client Sample ID: AGM-8-SB-20240321

Lab Sample ID: 480-218101-10

Date Collected: 03/21/24 13:20

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/26/24 20:44	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/26/24 20:44	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/26/24 20:44	2
1,1-Dichloroethane	100		2.0	0.76	ug/L			03/26/24 20:44	2
1,1-Dichloroethene	4.2		2.0	0.58	ug/L			03/26/24 20:44	2
1,2-Dichloroethane	0.75	J	2.0	0.42	ug/L			03/26/24 20:44	2

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: AGM-8-SB-20240321

Lab Sample ID: 480-218101-10

Date Collected: 03/21/24 13:20

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/26/24 20:44	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			03/26/24 20:44	2
Acrolein	ND		40	1.8	ug/L			03/26/24 20:44	2
Acrylonitrile	ND		40	1.7	ug/L			03/26/24 20:44	2
Benzene	ND		2.0	0.82	ug/L			03/26/24 20:44	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/26/24 20:44	2
Bromoform	ND		2.0	0.52	ug/L			03/26/24 20:44	2
Bromomethane	ND		2.0	1.4	ug/L			03/26/24 20:44	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/26/24 20:44	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/26/24 20:44	2
Chloroethane	37		2.0	0.64	ug/L			03/26/24 20:44	2
Chloroform	ND		2.0	0.68	ug/L			03/26/24 20:44	2
Chloromethane	ND		2.0	0.70	ug/L			03/26/24 20:44	2
cis-1,2-Dichloroethene	21		2.0	1.6	ug/L			03/26/24 20:44	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/26/24 20:44	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/26/24 20:44	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/26/24 20:44	2
Methylene Chloride	ND		4.0	0.88	ug/L			03/26/24 20:44	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			03/26/24 20:44	2
o-Xylene	ND		2.0	1.5	ug/L			03/26/24 20:44	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/26/24 20:44	2
Toluene	ND		2.0	1.0	ug/L			03/26/24 20:44	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/26/24 20:44	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/26/24 20:44	2
Trichloroethene	ND		2.0	0.92	ug/L			03/26/24 20:44	2
Vinyl chloride	24		2.0	1.8	ug/L			03/26/24 20:44	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 20:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/26/24 20:44	2
4-Bromofluorobenzene (Surr)	101		73 - 120		03/26/24 20:44	2
Toluene-d8 (Surr)	101		80 - 120		03/26/24 20:44	2
Dibromofluoromethane (Surr)	102		75 - 123		03/26/24 20:44	2

Client Sample ID: DUP-01-20240320

Lab Sample ID: 480-218101-11

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/25/24 21:04	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/25/24 21:04	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/25/24 21:04	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			03/25/24 21:04	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/25/24 21:04	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/25/24 21:04	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/25/24 21:04	4
2-Chloroethyl vinyl ether	R ND		20	3.8	ug/L			03/25/24 21:04	4

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: DUP-01-20240320

Lab Sample ID: 480-218101-11

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		80	3.6	ug/L			03/25/24 21:04	4
Acrylonitrile	ND		80	3.3	ug/L			03/25/24 21:04	4
Benzene	ND		4.0	1.6	ug/L			03/25/24 21:04	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/25/24 21:04	4
Bromoform	ND		4.0	1.0	ug/L			03/25/24 21:04	4
Bromomethane	ND	UJ	4.0	2.8	ug/L			03/25/24 21:04	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/25/24 21:04	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/25/24 21:04	4
Chloroethane	ND	UJ	4.0	1.3	ug/L			03/25/24 21:04	4
Chloroform	ND		4.0	1.4	ug/L			03/25/24 21:04	4
Chloromethane	ND		4.0	1.4	ug/L			03/25/24 21:04	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/25/24 21:04	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/25/24 21:04	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/25/24 21:04	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/25/24 21:04	4
Methylene Chloride	ND		8.0	1.8	ug/L			03/25/24 21:04	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			03/25/24 21:04	4
o-Xylene	ND		4.0	3.0	ug/L			03/25/24 21:04	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/25/24 21:04	4
Toluene	ND		4.0	2.0	ug/L			03/25/24 21:04	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/25/24 21:04	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/25/24 21:04	4
Trichloroethene	ND		4.0	1.8	ug/L			03/25/24 21:04	4
Vinyl chloride	ND	UJ	4.0	3.6	ug/L			03/25/24 21:04	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 21:04	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/25/24 21:04	4
4-Bromofluorobenzene (Surr)	95		73 - 120		03/25/24 21:04	4
Toluene-d8 (Surr)	88		80 - 120		03/25/24 21:04	4
Dibromofluoromethane (Surr)	94		75 - 123		03/25/24 21:04	4

Client Sample ID: MW99-G(S)-20240320

Lab Sample ID: 480-218101-12

Date Collected: 03/20/24 13:05

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/25/24 21:26	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/25/24 21:26	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/25/24 21:26	4
1,1-Dichloroethane	1.9	J	4.0	1.5	ug/L			03/25/24 21:26	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/25/24 21:26	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/25/24 21:26	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/25/24 21:26	4
2-Chloroethyl vinyl ether	R ND	F1	20	3.8	ug/L			03/25/24 21:26	4
Acrolein	ND		80	3.6	ug/L			03/25/24 21:26	4
Acrylonitrile	ND		80	3.3	ug/L			03/25/24 21:26	4

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: MW99-G(S)-20240320

Lab Sample ID: 480-218101-12

Date Collected: 03/20/24 13:05

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			03/25/24 21:26	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/25/24 21:26	4
Bromoform	ND		4.0	1.0	ug/L			03/25/24 21:26	4
Bromomethane	ND	UJ	4.0	2.8	ug/L			03/25/24 21:26	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/25/24 21:26	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/25/24 21:26	4
Chloroethane	ND	UJ	4.0	1.3	ug/L			03/25/24 21:26	4
Chloroform	ND		4.0	1.4	ug/L			03/25/24 21:26	4
Chloromethane	ND	F2 UJ	4.0	1.4	ug/L			03/25/24 21:26	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/25/24 21:26	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/25/24 21:26	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/25/24 21:26	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/25/24 21:26	4
Methylene Chloride	ND		8.0	1.8	ug/L			03/25/24 21:26	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			03/25/24 21:26	4
o-Xylene	ND		4.0	3.0	ug/L			03/25/24 21:26	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/25/24 21:26	4
Toluene	ND		4.0	2.0	ug/L			03/25/24 21:26	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/25/24 21:26	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/25/24 21:26	4
Trichloroethene	ND		4.0	1.8	ug/L			03/25/24 21:26	4
Vinyl chloride	ND	UJ	4.0	3.6	ug/L			03/25/24 21:26	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 21:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/25/24 21:26	4
4-Bromofluorobenzene (Surr)	91		73 - 120		03/25/24 21:26	4
Toluene-d8 (Surr)	88		80 - 120		03/25/24 21:26	4
Dibromofluoromethane (Surr)	103		75 - 123		03/25/24 21:26	4

Client Sample ID: MW99-H(I)-20240320

Lab Sample ID: 480-218101-13

Date Collected: 03/20/24 15:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/26/24 21:07	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/26/24 21:07	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/26/24 21:07	2
1,1-Dichloroethane	2.3		2.0	0.76	ug/L			03/26/24 21:07	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/26/24 21:07	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/26/24 21:07	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/26/24 21:07	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			03/26/24 21:07	2
Acrolein	ND		40	1.8	ug/L			03/26/24 21:07	2
Acrylonitrile	ND		40	1.7	ug/L			03/26/24 21:07	2
Benzene	ND		2.0	0.82	ug/L			03/26/24 21:07	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/26/24 21:07	2

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: MW99-H(I)-20240320

Lab Sample ID: 480-218101-13

Date Collected: 03/20/24 15:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		2.0	0.52	ug/L			03/26/24 21:07	2
Bromomethane	ND		2.0	1.4	ug/L			03/26/24 21:07	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/26/24 21:07	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/26/24 21:07	2
Chloroethane	ND		2.0	0.64	ug/L			03/26/24 21:07	2
Chloroform	ND		2.0	0.68	ug/L			03/26/24 21:07	2
Chloromethane	ND		2.0	0.70	ug/L			03/26/24 21:07	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			03/26/24 21:07	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/26/24 21:07	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/26/24 21:07	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/26/24 21:07	2
Methylene Chloride	ND		4.0	0.88	ug/L			03/26/24 21:07	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			03/26/24 21:07	2
o-Xylene	ND		2.0	1.5	ug/L			03/26/24 21:07	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/26/24 21:07	2
Toluene	ND		2.0	1.0	ug/L			03/26/24 21:07	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/26/24 21:07	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/26/24 21:07	2
Trichloroethene	ND		2.0	0.92	ug/L			03/26/24 21:07	2
Vinyl chloride	ND		2.0	1.8	ug/L			03/26/24 21:07	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 21:07	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/26/24 21:07	2
4-Bromofluorobenzene (Surr)	103		73 - 120		03/26/24 21:07	2
Toluene-d8 (Surr)	100		80 - 120		03/26/24 21:07	2
Dibromofluoromethane (Surr)	102		75 - 123		03/26/24 21:07	2

Client Sample ID: FB-01-20240320

Lab Sample ID: 480-218101-14

Date Collected: 03/20/24 16:10

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/25/24 22:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/24 22:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/24 22:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/25/24 22:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/25/24 22:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/24 22:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/24 22:11	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/25/24 22:11	1
Acrolein	ND		20	0.91	ug/L			03/25/24 22:11	1
Acrylonitrile	ND		20	0.83	ug/L			03/25/24 22:11	1
Benzene	ND		1.0	0.41	ug/L			03/25/24 22:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/24 22:11	1
Bromoform	ND		1.0	0.26	ug/L			03/25/24 22:11	1
Bromomethane	ND UJ		1.0	0.69	ug/L			03/25/24 22:11	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: FB-01-20240320

Lab Sample ID: 480-218101-14

Date Collected: 03/20/24 16:10

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/24 22:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/24 22:11	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			03/25/24 22:11	1
Chloroform	ND		1.0	0.34	ug/L			03/25/24 22:11	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/24 22:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/25/24 22:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/24 22:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/24 22:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/24 22:11	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/25/24 22:11	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/25/24 22:11	1
o-Xylene	ND		1.0	0.76	ug/L			03/25/24 22:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/25/24 22:11	1
Toluene	ND		1.0	0.51	ug/L			03/25/24 22:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/24 22:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/24 22:11	1
Trichloroethene	ND		1.0	0.46	ug/L			03/25/24 22:11	1
Vinyl chloride	ND	UJ	1.0	0.90	ug/L			03/25/24 22:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/25/24 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/25/24 22:11	1
4-Bromofluorobenzene (Surr)	92		73 - 120		03/25/24 22:11	1
Toluene-d8 (Surr)	92		80 - 120		03/25/24 22:11	1
Dibromofluoromethane (Surr)	96		75 - 123		03/25/24 22:11	1

Client Sample ID: FB-02-20240321

Lab Sample ID: 480-218101-15

Date Collected: 03/21/24 14:30

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/24 15:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/24 15:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/24 15:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/24 15:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/24 15:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/24 15:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/24 15:12	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/26/24 15:12	1
Acrolein	ND		20	0.91	ug/L			03/26/24 15:12	1
Acrylonitrile	ND		20	0.83	ug/L			03/26/24 15:12	1
Benzene	ND		1.0	0.41	ug/L			03/26/24 15:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/24 15:12	1
Bromoform	ND	UJ	1.0	0.26	ug/L			03/26/24 15:12	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/24 15:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/24 15:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/24 15:12	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: FB-02-20240321

Lab Sample ID: 480-218101-15

Date Collected: 03/21/24 14:30

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			03/26/24 15:12	1
Chloroform	ND		1.0	0.34	ug/L			03/26/24 15:12	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/24 15:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/24 15:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/24 15:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/24 15:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/24 15:12	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/26/24 15:12	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/26/24 15:12	1
o-Xylene	ND		1.0	0.76	ug/L			03/26/24 15:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/24 15:12	1
Toluene	ND		1.0	0.51	ug/L			03/26/24 15:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/24 15:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/24 15:12	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/24 15:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/24 15:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/26/24 15:12	1
4-Bromofluorobenzene (Surr)	106		73 - 120		03/26/24 15:12	1
Toluene-d8 (Surr)	102		80 - 120		03/26/24 15:12	1
Dibromofluoromethane (Surr)	105		75 - 123		03/26/24 15:12	1

Client Sample ID: EB-01-20240320

Lab Sample ID: 480-218101-16

Date Collected: 03/20/24 17:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/24 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/24 15:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/24 15:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/24 15:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/24 15:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/24 15:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/24 15:34	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/26/24 15:34	1
Acrolein	ND		20	0.91	ug/L			03/26/24 15:34	1
Acrylonitrile	ND		20	0.83	ug/L			03/26/24 15:34	1
Benzene	ND		1.0	0.41	ug/L			03/26/24 15:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/24 15:34	1
Bromoform	ND	UJ	1.0	0.26	ug/L			03/26/24 15:34	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/24 15:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/24 15:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/24 15:34	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/24 15:34	1
Chloroform	ND		1.0	0.34	ug/L			03/26/24 15:34	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: EB-01-20240320

Lab Sample ID: 480-218101-16

Date Collected: 03/20/24 17:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			03/26/24 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/24 15:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/24 15:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/24 15:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/24 15:34	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/26/24 15:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/26/24 15:34	1
o-Xylene	ND		1.0	0.76	ug/L			03/26/24 15:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/24 15:34	1
Toluene	ND		1.0	0.51	ug/L			03/26/24 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/24 15:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/24 15:34	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/24 15:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/24 15:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/26/24 15:34	1
4-Bromofluorobenzene (Surr)	112		73 - 120		03/26/24 15:34	1
Toluene-d8 (Surr)	97		80 - 120		03/26/24 15:34	1
Dibromofluoromethane (Surr)	107		75 - 123		03/26/24 15:34	1

Client Sample ID: TB-01-20240321

Lab Sample ID: 480-218101-17

Date Collected: 03/21/24 00:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/24 15:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/24 15:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/24 15:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/24 15:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/24 15:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/24 15:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/24 15:57	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			03/26/24 15:57	1
Acrolein	ND		20	0.91	ug/L			03/26/24 15:57	1
Acrylonitrile	ND		20	0.83	ug/L			03/26/24 15:57	1
Benzene	ND		1.0	0.41	ug/L			03/26/24 15:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/24 15:57	1
Bromoform	ND UJ		1.0	0.26	ug/L			03/26/24 15:57	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/24 15:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/24 15:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/24 15:57	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/24 15:57	1
Chloroform	ND		1.0	0.34	ug/L			03/26/24 15:57	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/24 15:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/24 15:57	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: 3M-Brockport

Job ID: 480-218101-1

Client Sample ID: TB-01-20240321

Lab Sample ID: 480-218101-17

Date Collected: 03/21/24 00:00

Matrix: Water

Date Received: 03/25/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/24 15:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/24 15:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/24 15:57	1
Methylene Chloride	ND		2.0	0.44	ug/L			03/26/24 15:57	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			03/26/24 15:57	1
o-Xylene	ND		1.0	0.76	ug/L			03/26/24 15:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/24 15:57	1
Toluene	ND		1.0	0.51	ug/L			03/26/24 15:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/24 15:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/24 15:57	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/24 15:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/24 15:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		03/26/24 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		03/26/24 15:57	1
4-Bromofluorobenzene (Surr)	109		73 - 120		03/26/24 15:57	1
Toluene-d8 (Surr)	101		80 - 120		03/26/24 15:57	1
Dibromofluoromethane (Surr)	105		75 - 123		03/26/24 15:57	1

3M Company

Data Usability Summary Report

Brockport, New York

Per- and Poly-fluoroalkyl Substances (PFAS) Analysis

SDG # 410-165004-1

Analysis Performed By:
Eurofins Test America
Lancaster, Pennsylvania

Report # 57838R
Review Level: Tier II
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 410-165004-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data as reported by the laboratory were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					PFAS
BRNY-GW-AGM1OB-240320	410-165004-1	Water	03/20/2024		X
BRNY-GW-AGM1SB-240321	410-165004-2	Water	03/21/2024		X
BRNY-GW-AGM3OB-240320	410-165004-3	Water	03/20/2024		X
BRNY-GW-AGM5OB-240320	410-165004-4	Water	03/20/2024		X
BRNY-GW-DB-240321	410-165004-5	Water	03/21/2024	BRNY-GW-AGM1SB-240321	X
BRNY-GW-EB1-240320	410-165004-6	Water	03/20/2024		X
BRNY-GW-EB2-240321	410-165004-7	Water	03/21/2024		X
BRNY-GW-FB1-240320	410-165004-8	Water	03/20/2024		X
BRNY-GW-FB2-240321	410-165004-9	Water	03/21/2024		X
BRNY-GW-TB-240320	410-165004-10	Water	03/20/2024		X

Notes:

PFAS = per-polyfluoroalkyl substances

DATA USABILITY SUMMARY REPORT

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X	X		
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

10. Case narrative stated that Chain-of-Custody (COC) was incomplete as received. The COC is missing the sample state and does not meet regulatory requirements.

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) 4th Draft Method 1633. Data were reviewed in accordance with USEPA Method 1633, Department of Defense (DoD) Quality Systems Manual (QSM) 5.4, DoD General Data Validation Guidelines, November 2019, DoD Final Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24, November 2022, and in addition and in addition, USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified, and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Per DoD General Data Validation Guidelines November 2019 Revision 1 Section 4.8 states; "The following provides a brief explanation of the DoD data validation qualifiers assigned to results during the data review process by a data validator. The reviewer should use these qualifiers, as applicable, unless other data qualifiers are specified in a project related document, such as a QAPP. If other qualifiers are used, a complete explanation of those qualifiers should accompany the data validation report." Below are the qualifier codes that may be applied in this validation report:

- Concentration (C) Qualifiers
 - U The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - 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.
 - UJ The analyte was not detected and was reported as less than the LOD. However, the associated numerical value is approximate.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - X The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA USABILITY SUMMARY REPORT

A fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Per- and polyfluoroalkyl Substances (PFAS) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
USEPA method 1633/ DoD QSM 5.4	Water	28 days to extraction; 28 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, instrument, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Instrument blanks measure carryover in the instrument from one sample to another. Method blanks measure laboratory contamination. Equipment rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the RL, with the exception of the compound PFOS which was detected in a field blank sample BRNY-GW-FB2-240321. Sample result less than the BAL associated with the following sample ID was qualified as listed in the following table.

Sample ID	Compounds	Sample Result	Qualification
BRNY-GW-DB-240321	Perfluorooctanesulfonic acid (PFOS) [FB]	Detected sample results >RL and <BAL	J+ at detected sample concentration

Notes:

RL Reporting Limit

FB Field blank

3. Extracted Internal Standards (EIS)

Labeled standards must be added to all field samples and QC samples prior to extraction. EIS recoveries must be within limits specified in the QAPP or laboratory calculated limits, of the ICAL midpoint standard area or area measured in the initial CCV on days when ICAL not performed. If EIS percent recoveries are out of specification with no evidence of re-extraction (except for sample used for MS/MSD analysis) and reanalysis, justification should be noted in the laboratory case narrative.

Samples associated with EIS exhibiting recoveries outside of the control limits are presented in the following table.

Sample ID	EIS	Associated Compound	EIS %R	EIS %R RE
BRNY-GW-AGM1SB-240321 (DL)	D9-N-EtFOSE-M	N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	Diluted	NA

DATA USABILITY SUMMARY REPORT

Notes:

NA = Not Analyzed

Where a re-extracted analysis was performed, results are reported from the analysis in bold above.

The criteria used to evaluate the EIS recoveries are presented in the following table. In the case of an EIS deviation, the sample results associated with the EIS are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> 200%	Non-detect	No Action
	Detect	J-
< lower control limit (LL) % but > 10%	Non-detect	UJ
	Detect	J+
< 10%	Non-detect	R
	Detect	J

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the within the 4th draft method EPA 1633 acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be $\leq 30\%$.

Note: Recovery criteria for MS/MSD are applicable where the spike concentration is at least 4 times greater than the native analyte concentration. If this is not the case, the MS and MSD percent recovery criteria do not apply.

MS/MSD analysis was performed on sample BRNY-GW-AGM1SB-240321. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted below.

Sample ID	Compound	MS Recovery	MSD Recovery
BRNY-GW-AGM1SB-240321	Perfluorododecanesulfonic acid (PFDOS)	<LL but >10%	<10%
	Perfluorotridecanoic acid (PFTTrDA)	AC	<LL but >10%

Note:

AC Acceptable

LL Lower control limit

UL Upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J+
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J-
< 10%	Non-detect	R
	Detect	J-
MS TV < 4X SR: Matrix spike true value is less than 4 times sample result.	Detect	No Action
	Non-detect	

DATA USABILITY SUMMARY REPORT

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample ID	Compound
BRNY-GW-AGM1SB-240321	Perfluorododecanesulfonic acid (PFDOS)
	Perfluorotridecanoic acid (PFTrDA)
	N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> 30%	Non-detect	UJ
	Detect	J

5. Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) and Low-Level (LLCS/LLCSD) Analysis

The LCS/LCSD and LLC/LLCSD analyses are used to assess the accuracy of the analytical method independent of matrix interferences. The LLC is spiked at two times the LOQ to verify the LOQ, and the LCS is spiked at the midpoint of the calibration range. The compounds associated with the LCS/LCSD and LLC/LLCSD analyses for aqueous matrix must exhibit a percent recovery within the 4th draft method EPA 1633 Table 5 and 5a acceptance limits. Limits that are not specified in these tables will be laboratory calculated limits.

NOTE: LCS and LLC are OPR and LLOPR, respectively, method EPA 1633.

Samples associated with the LCS exhibiting recoveries outside of the control limits are presented in the following table

Sample ID	Analysis Batch	Compound	LCS %R
BRNY-GW-TB-240320	490849	Perfluorobutanoic acid (PFBA)	<LL
		Perfluorooctanoic acid (PFOA)	>UL
		Perfluorodecanoic acid (PFDA)	<LL but >10%
		Perfluorohexanesulfonic acid (PFHxS)	>UL
		Perfluorodecanesulfonic acid (PFDS)	>UL
		Perfluorododecanesulfonic acid (PFDoS)	>UL
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<LL but >10%

Note:

UL = Upper control limit

LL = Lower control limit

The criteria used to evaluate the LCS/LCSD or LLC/LLCSD recoveries are presented in the following table. In the case of a deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action

DATA USABILITY SUMMARY REPORT

Control Limit	Sample Result	Qualification
	Detect	J+
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J-
< 10%	Non-detect	R
	Detect	J-

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soils is applied to the RPD between the parent sample and the field duplicate when both results are greater than 5 times the LOQ. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the LOQ, a control limit of absolute difference less than or equal to two times the LOQ is applied for water matrices and three times the LOQ for soil matrices.

Results for field duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (ng/L)	Duplicate Result (ng/L)	RPD
BRNY-GW-AGM1SB-240321/ BRNY-GW-DB-240321	Perfluorobutanoic acid (PFBA)	6.6 J	5.9 J	AC
	Perfluoropentanoic acid (PFPeA)	1.5 J	8.0 U	AC
	Perfluorohexanoic acid (PFHxA)	0.99 J	1.4 J	AC
	Perfluoroheptanoic acid (PFHpA)	4.7	3.9 J	AC
	Perfluorooctanoic acid (PFOA)	2.0	2.4 J	AC
	Perfluorononanoic acid (PFNA)	0.60 J	4.0 U	AC
	Perfluorobutanesulfonic acid (PFBS)	0.93 J	4.0 U	AC
	Perfluoropentanesulfonic acid (PFPeS)	0.77 J	4.0 U	AC
	Perfluorohexanesulfonic acid (PFHxS)	0.55 J	4.0 U	AC
	Perfluorooctanesulfonic acid (PFOS)	3.6	2.1 J	AC

Notes:

AC = Acceptable

The calculated RPDs and results between the parent sample and field duplicate were acceptable.

7. Compound Identification

PFC analytes are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times. For analytes that are reported at concentrations at or greater than the LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the mid-point initial calibration standard. For analytes that are reported at a concentration between the method detection limit (MDL) and LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the initial daily continuing calibration verification standard.

DATA USABILITY SUMMARY REPORT

Compounds that were flagged by the laboratory with the “I” qualifier (Value is EMPC (estimated maximum possible concentration) were due to the ion ratio exceeding the control limits. Sample locations associated with ion ratios outside of the control limits of 50% to 150% recovery (%R) were qualified as estimate (J).

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for PFAS

PFAS: EPA 1633/DoD QSM 5.4	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Field blanks		X	X		
Laboratory Control Sample (LCS) %R		X	X		
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X	X		
Field Duplicate (RPD)		X		X	
Extracted Internal Standard %R		X	X		
Dilution Factor		X		X	
Ion Ratio %R		X	X		
Moisture Content	X				X

Notes:

%R Percent recovery
 RPD Relative percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹	Noncompliance
					PFAS	
410-165004-1	03/20/2024	USEPA method 1633	BRNY-GW-AGM1OB-240320	Water	No	Ion ratio exceedance.
	03/21/2024	USEPA method 1633	BRNY-GW-AGM1SB-240321	Water	No	Ion ratio exceedance, EIS % recovery exceedance, MS/MSD recovery and RPD exceedance.
	03/20/2024	USEPA method 1633	BRNY-GW-AGM3OB-240320	Water	No	Ion ratio exceedance.
	03/20/2024	USEPA method 1633	BRNY-GW-AGM5OB-240320	Water	No	Ion ratio exceedance.
	03/21/2024	USEPA method 1633	BRNY-GW-DB-240321	Water	No	Ion ratio exceedance and EIS % recovery exceedance.
	03/20/2024	USEPA method 1633	BRNY-GW-EB1-240320	Water	Yes	--
	03/21/2024	USEPA method 1633	BRNY-GW-EB2-240321	Water	Yes	--
	03/20/2024	USEPA method 1633	BRNY-GW-FB1-240320	Water	Yes	--
	03/21/2024	USEPA method 1633	BRNY-GW-FB2-240321	Water	Yes	--
	03/20/2024	USEPA method 1633	BRNY-GW-TB-240320	Water	No	LCS % recovery exceedance.

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 21, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 11, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Project: E24-0174

Definitions/Glossary

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM1OB-240320

Lab Sample ID: 410-165004-1

Date Collected: 03/20/24 17:55

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18		16	4.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoropentanoic acid (PFPeA)	2.3	J	8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorohexanoic acid (PFHxA)	3.0	J	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoroheptanoic acid (PFHpA)	2.2	J	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorooctanoic acid (PFOA)	4.0		4.0	1.3	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorononanoic acid (PFNA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorodecanoic acid (PFDA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoroundecanoic acid (PFUnA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorododecanoic acid (PFDoA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorotridecanoic acid (PFTrDA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorotetradecanoic acid (PFTeDA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorobutanesulfonic acid (PFBS)	0.89	J	4.0	0.60	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoropentanesulfonic acid (PFPeS)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorohexanesulfonic acid (PFHxS)	ND		4.0	1.1	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		4.0	0.80	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorooctanesulfonic acid (PFOS)	2.7	J	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorononanesulfonic acid (PFNS)	ND		4.0	0.80	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		4.0	1.8	ng/L		04/09/24 06:43	04/11/24 12:37	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		16	3.4	ng/L		04/09/24 06:43	04/11/24 12:37	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		16	5.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		16	5.2	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluorooctanesulfonamide (PFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.0	2.4	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.0	1.4	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		40	10	ng/L		04/09/24 06:43	04/11/24 12:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		40	10	ng/L		04/09/24 06:43	04/11/24 12:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		16	4.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		16	3.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		8.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		20	3.0	ng/L		04/09/24 06:43	04/11/24 12:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		100	20	ng/L		04/09/24 06:43	04/11/24 12:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM1OB-240320

Lab Sample ID: 410-165004-1

Date Collected: 03/20/24 17:55

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		100	20	ng/L		04/09/24 06:43	04/11/24 12:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	73.7		5 - 130				04/09/24 06:43	04/11/24 12:37	1
13C5 PFPeA	92.0		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C5 PFHxA	94.2		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C4 PFHpA	92.1		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C8 PFOA	83.8		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C9 PFNA	99.4		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C6 PFDA	97.6		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C7 PFUnA	87.0		30 - 130				04/09/24 06:43	04/11/24 12:37	1
13C2-PFDoDA	82.1		10 - 130				04/09/24 06:43	04/11/24 12:37	1
13C2 PFTeDA	84.7		10 - 130				04/09/24 06:43	04/11/24 12:37	1
13C3 PFBS	94.0		40 - 135				04/09/24 06:43	04/11/24 12:37	1
13C3 PFHxS	103		40 - 130				04/09/24 06:43	04/11/24 12:37	1
13C8 PFOS	105		40 - 130				04/09/24 06:43	04/11/24 12:37	1
M2-4:2 FTS	142		40 - 200				04/09/24 06:43	04/11/24 12:37	1
M2-6:2 FTS	128		40 - 200				04/09/24 06:43	04/11/24 12:37	1
M2-8:2 FTS	129		40 - 300				04/09/24 06:43	04/11/24 12:37	1
13C8 FOSA	98.7		40 - 130				04/09/24 06:43	04/11/24 12:37	1
d3-NMePFOSA	78.1		10 - 130				04/09/24 06:43	04/11/24 12:37	1
d5-NEtPFOSA	62.9		10 - 130				04/09/24 06:43	04/11/24 12:37	1
d3-NMeFOSAA	107		40 - 170				04/09/24 06:43	04/11/24 12:37	1
d5-NEtFOSAA	113		25 - 135				04/09/24 06:43	04/11/24 12:37	1
d7-N-MeFOSE-M	68.2		10 - 130				04/09/24 06:43	04/11/24 12:37	1
d9-N-EtFOSE-M	65.0		10 - 130				04/09/24 06:43	04/11/24 12:37	1
13C3 HFPO-DA	84.0		40 - 130				04/09/24 06:43	04/11/24 12:37	1

Client Sample ID: BRNY-GW-AGM1SB-240321

Lab Sample ID: 410-165004-2

Date Collected: 03/21/24 10:45

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.6	J	7.7	1.9	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoropentanoic acid (PFPeA)	1.5	J	3.9	0.97	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorohexanoic acid (PFHxA)	0.99	J	1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoroheptanoic acid (PFHpA)	4.7		1.9	0.50	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorooctanoic acid (PFOA)	2.0		1.9	0.62	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorononanoic acid (PFNA)	0.60	J	1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorotridecanoic acid (PFTTrDA)	ND	~~E2~~ UJ	1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorobutanesulfonic acid (PFBS)	0.93	J J	1.9	0.29	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoropentanesulfonic acid (PFPeS)	0.77	J J	1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM1SB-240321

Lab Sample ID: 410-165004-2

Date Collected: 03/21/24 10:45

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.55	J	1.9	0.55	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.39	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorooctanesulfonic acid (PFOS)	3.6		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.39	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorododecanesulfonic acid (PFDoS)	R ND	F1 F2	1.9	0.87	ng/L		03/29/24 07:11	04/03/24 05:28	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.7	1.6	ng/L		03/29/24 07:11	04/03/24 05:28	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.7	2.4	ng/L		03/29/24 07:11	04/03/24 05:28	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.7	2.5	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.9	1.2	ng/L		03/29/24 07:11	04/03/24 05:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.68	ng/L		03/29/24 07:11	04/03/24 05:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.7	1.9	ng/L		03/29/24 07:11	04/03/24 05:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.7	1.4	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.9	0.48	ng/L		03/29/24 07:11	04/03/24 05:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.9	0.97	ng/L		03/29/24 07:11	04/03/24 05:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.9	0.97	ng/L		03/29/24 07:11	04/03/24 05:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.7	1.4	ng/L		03/29/24 07:11	04/03/24 05:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		48	9.7	ng/L		03/29/24 07:11	04/03/24 05:28	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		48	9.7	ng/L		03/29/24 07:11	04/03/24 05:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66.9		5 - 130	03/29/24 07:11	04/03/24 05:28	1
13C5 PFPeA	85.8		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C5 PFHxA	76.6		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C4 PFHpA	72.1		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C8 PFOA	77.6		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C9 PFNA	87.2		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C6 PFDA	85.0		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C7 PFUnA	69.7		30 - 130	03/29/24 07:11	04/03/24 05:28	1
13C2-PFDoDA	65.4		10 - 130	03/29/24 07:11	04/03/24 05:28	1
13C2 PFTeDA	50.1		10 - 130	03/29/24 07:11	04/03/24 05:28	1
13C3 PFBS	105		40 - 135	03/29/24 07:11	04/03/24 05:28	1
13C3 PFHxS	89.5		40 - 130	03/29/24 07:11	04/03/24 05:28	1
13C8 PFOS	127		40 - 130	03/29/24 07:11	04/03/24 05:28	1
M2-4:2 FTS	123		40 - 200	03/29/24 07:11	04/03/24 05:28	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM1SB-240321

Lab Sample ID: 410-165004-2

Date Collected: 03/21/24 10:45

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	107		40 - 200	03/29/24 07:11	04/03/24 05:28	1
M2-8:2 FTS	95.5		40 - 300	03/29/24 07:11	04/03/24 05:28	1
13C8 FOSA	121		40 - 130	03/29/24 07:11	04/03/24 05:28	1
d3-NMePFOSA	89.9		10 - 130	03/29/24 07:11	04/03/24 05:28	1
d5-NEtPFOSA	80.2		10 - 130	03/29/24 07:11	04/03/24 05:28	1
d3-NMeFOSAA	116		40 - 170	03/29/24 07:11	04/03/24 05:28	1
d5-NEtFOSAA	118		25 - 135	03/29/24 07:11	04/03/24 05:28	1
13C3 HFPO-DA	52.9		40 - 130	03/29/24 07:11	04/03/24 05:28	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane	ND	UJ	190	48	ng/L		03/29/24 07:11	04/04/24 12:42	10
sulfonamidoethanol (NMeFOSE)									
N-ethylperfluorooctane	ND	UJ	190	48	ng/L		03/29/24 07:11	04/04/24 12:42	10
sulfonamidoethanol (NEtFOSE)									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d7-N-MeFOSE-M	11.2		10 - 130				03/29/24 07:11	04/04/24 12:42	10
d9-N-EtFOSE-M	5.13	*B-	10 - 130				03/29/24 07:11	04/04/24 12:42	10

Client Sample ID: BRNY-GW-AGM3OB-240320

Lab Sample ID: 410-165004-3

Date Collected: 03/20/24 15:25

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.8		6.9	1.7	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoropentanoic acid (PFPeA)	2.6	J	3.5	0.86	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorohexanoic acid (PFHxA)	2.6		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.7	0.45	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorooctanoic acid (PFOA)	2.4		1.7	0.55	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorobutanesulfonic acid (PFBS)	1.9	J	1.7	0.26	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoropentanesulfonic acid (PFPeS)	0.87	J	1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.49	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.35	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.35	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.78	ng/L		03/29/24 07:11	04/03/24 06:07	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		6.9	1.5	ng/L		03/29/24 07:11	04/03/24 06:07	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		6.9	2.2	ng/L		03/29/24 07:11	04/03/24 06:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM3OB-240320

Lab Sample ID: 410-165004-3

Date Collected: 03/20/24 15:25

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		6.9	2.2	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluorooctanesulfonamide (PFOSA)	0.45	J	1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.5	1.0	ng/L		03/29/24 07:11	04/03/24 06:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.60	ng/L		03/29/24 07:11	04/03/24 06:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.3	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.43	ng/L		03/29/24 07:11	04/03/24 06:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.86	ng/L		03/29/24 07:11	04/03/24 06:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	0.86	ng/L		03/29/24 07:11	04/03/24 06:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.6	1.3	ng/L		03/29/24 07:11	04/03/24 06:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		43	8.6	ng/L		03/29/24 07:11	04/03/24 06:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		43	8.6	ng/L		03/29/24 07:11	04/03/24 06:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	44.9		5 - 130	03/29/24 07:11	04/03/24 06:07	1
13C5 PFPeA	75.6		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C5 PFHxA	65.4		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C4 PFHpA	61.1		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C8 PFOA	68.3		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C9 PFNA	82.6		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C6 PFDA	74.6		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C7 PFUnA	70.3		30 - 130	03/29/24 07:11	04/03/24 06:07	1
13C2-PFDoDA	71.2		10 - 130	03/29/24 07:11	04/03/24 06:07	1
13C2 PFTeDA	61.4		10 - 130	03/29/24 07:11	04/03/24 06:07	1
13C3 PFBS	101		40 - 135	03/29/24 07:11	04/03/24 06:07	1
13C3 PFHxS	79.5		40 - 130	03/29/24 07:11	04/03/24 06:07	1
13C8 PFOS	118		40 - 130	03/29/24 07:11	04/03/24 06:07	1
M2-4:2 FTS	115		40 - 200	03/29/24 07:11	04/03/24 06:07	1
M2-6:2 FTS	141		40 - 200	03/29/24 07:11	04/03/24 06:07	1
M2-8:2 FTS	107		40 - 300	03/29/24 07:11	04/03/24 06:07	1
13C8 FOSA	124		40 - 130	03/29/24 07:11	04/03/24 06:07	1
d3-NMePFOSA	106		10 - 130	03/29/24 07:11	04/03/24 06:07	1
d5-NEtPFOSA	99.2		10 - 130	03/29/24 07:11	04/03/24 06:07	1
d3-NMeFOSAA	114		40 - 170	03/29/24 07:11	04/03/24 06:07	1
d5-NEtFOSAA	120		25 - 135	03/29/24 07:11	04/03/24 06:07	1
d7-N-MeFOSE-M	24.4		10 - 130	03/29/24 07:11	04/03/24 06:07	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		170	43	ng/L		03/29/24 07:11	04/04/24 12:55	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM3OB-240320

Lab Sample ID: 410-165004-3

Date Collected: 03/20/24 15:25

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		69	17	ng/L		03/29/24 07:11	04/04/24 12:55	10
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		69	13	ng/L		03/29/24 07:11	04/04/24 12:55	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	12.9		10 - 130				03/29/24 07:11	04/04/24 12:55	10
13C3 HFPO-DA	76.2		40 - 130				03/29/24 07:11	04/04/24 12:55	10

Client Sample ID: BRNY-GW-AGM5OB-240320

Lab Sample ID: 410-165004-4

Date Collected: 03/20/24 12:50

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	10		7.5	1.9	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoropentanoic acid (PFPeA)	1.8	J	3.8	0.94	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.9	0.49	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorooctanoic acid (PFOA)	5.0		1.9	0.60	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorononanoic acid (PFNA)	0.58	J	1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorobutanesulfonic acid (PFBS)	0.38	J	1.9	0.28	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoropentanesulfonic acid (PFPeS)	0.64	J	1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.54	ng/L		03/29/24 07:11	04/03/24 06:20	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.5	1.6	ng/L		03/29/24 07:11	04/03/24 06:20	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.5	2.3	ng/L		03/29/24 07:11	04/03/24 06:20	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.5	2.4	ng/L		03/29/24 07:11	04/03/24 06:20	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.8	1.1	ng/L		03/29/24 07:11	04/03/24 06:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.5	1.9	ng/L		03/29/24 07:11	04/03/24 06:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.5	1.4	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.8	0.47	ng/L		03/29/24 07:11	04/03/24 06:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.8	0.94	ng/L		03/29/24 07:11	04/03/24 06:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.8	0.94	ng/L		03/29/24 07:11	04/03/24 06:20	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.4	1.4	ng/L		03/29/24 07:11	04/03/24 06:20	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		47	9.4	ng/L		03/29/24 07:11	04/03/24 06:20	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-AGM5OB-240320

Lab Sample ID: 410-165004-4

Date Collected: 03/20/24 12:50

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		47	9.4	ng/L		03/29/24 07:11	04/03/24 06:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	60.4		5 - 130				03/29/24 07:11	04/03/24 06:20	1
13C5 PFPeA	92.8		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C5 PFHxA	71.9		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C4 PFHpA	71.3		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C8 PFOA	78.6		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C9 PFNA	93.4		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C6 PFDA	75.4		40 - 130				03/29/24 07:11	04/03/24 06:20	1
13C7 PFUnA	79.6		30 - 130				03/29/24 07:11	04/03/24 06:20	1
13C2-PFDoDA	71.8		10 - 130				03/29/24 07:11	04/03/24 06:20	1
13C2 PFTeDA	12.0		10 - 130				03/29/24 07:11	04/03/24 06:20	1
13C3 PFBS	115		40 - 135				03/29/24 07:11	04/03/24 06:20	1
13C3 PFHxS	92.8		40 - 130				03/29/24 07:11	04/03/24 06:20	1
M2-4:2 FTS	130		40 - 200				03/29/24 07:11	04/03/24 06:20	1
M2-6:2 FTS	143		40 - 200				03/29/24 07:11	04/03/24 06:20	1
M2-8:2 FTS	113		40 - 300				03/29/24 07:11	04/03/24 06:20	1
d3-NMePFOSA	124		10 - 130				03/29/24 07:11	04/03/24 06:20	1
d5-NEtPFOSA	116		10 - 130				03/29/24 07:11	04/03/24 06:20	1
d3-NMeFOSAA	130		40 - 170				03/29/24 07:11	04/03/24 06:20	1
13C3 HFPO-DA	47.8		40 - 130				03/29/24 07:11	04/03/24 06:20	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	ND		4.0	0.80	ng/L		04/11/24 07:26	04/12/24 11:21	1
Perfluorooctanesulfonic acid (PFOS)	4.7		4.0	1.0	ng/L		04/11/24 07:26	04/12/24 11:21	1
Perfluorononanesulfonic acid (PFNS)	ND		4.0	0.80	ng/L		04/11/24 07:26	04/12/24 11:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.0	1.0	ng/L		04/11/24 07:26	04/12/24 11:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		4.0	1.8	ng/L		04/11/24 07:26	04/12/24 11:21	1
Perfluorooctanesulfonamide (PFOSA)	ND		4.0	1.0	ng/L		04/11/24 07:26	04/12/24 11:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.0	1.4	ng/L		04/11/24 07:26	04/12/24 11:21	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		40	10	ng/L		04/11/24 07:26	04/12/24 11:21	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		40	10	ng/L		04/11/24 07:26	04/12/24 11:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOS	100		40 - 130				04/11/24 07:26	04/12/24 11:21	1
13C8 FOSA	89.4		40 - 130				04/11/24 07:26	04/12/24 11:21	1
d5-NEtFOSAA	99.5		25 - 135				04/11/24 07:26	04/12/24 11:21	1
d7-N-MeFOSE-M	69.5		10 - 130				04/11/24 07:26	04/12/24 11:21	1
d9-N-EtFOSE-M	69.3		10 - 130				04/11/24 07:26	04/12/24 11:21	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-DB-240321

Lab Sample ID: 410-165004-5

Date Collected: 03/21/24 00:00

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9	J	16	4.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoropentanoic acid (PFPeA)	ND		8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorohexanoic acid (PFHxA)	1.4	J	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoroheptanoic acid (PFHpA)	3.9	J	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorooctanoic acid (PFOA)	2.4	J	4.0	1.3	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorononanoic acid (PFNA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorodecanoic acid (PFDA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoroundecanoic acid (PFUnA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		4.0	0.60	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		4.0	1.1	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		4.0	0.80	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorooctanesulfonic acid (PFOS)	2.1	JJ+	4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorononanesulfonic acid (PFNS)	ND		4.0	0.80	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		4.0	1.8	ng/L		04/09/24 06:43	04/11/24 12:50	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		16	3.4	ng/L		04/09/24 06:43	04/11/24 12:50	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		16	5.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		16	5.2	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluorooctanesulfonamide (PFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		4.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.0	2.4	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.0	1.4	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		40	10	ng/L		04/09/24 06:43	04/11/24 12:50	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		40	10	ng/L		04/09/24 06:43	04/11/24 12:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		16	4.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		16	3.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		8.0	1.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		8.0	2.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		20	3.0	ng/L		04/09/24 06:43	04/11/24 12:50	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		100	20	ng/L		04/09/24 06:43	04/11/24 12:50	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		100	20	ng/L		04/09/24 06:43	04/11/24 12:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	38.6		5 - 130				04/09/24 06:43	04/11/24 12:50	1
13C5 PFPeA	97.6		40 - 130				04/09/24 06:43	04/11/24 12:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-DB-240321

Lab Sample ID: 410-165004-5

Date Collected: 03/21/24 00:00

Matrix: Groundwater

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	97.2		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C4 PFHpA	102		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C8 PFOA	95.0		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C9 PFNA	98.0		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C6 PFDA	105		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C7 PFUnA	96.2		30 - 130	04/09/24 06:43	04/11/24 12:50	1
13C2-PFDoDA	134	*54	10 - 130	04/09/24 06:43	04/11/24 12:50	1
13C2 PFTeDA	160	*54	10 - 130	04/09/24 06:43	04/11/24 12:50	1
13C3 PFBS	104		40 - 135	04/09/24 06:43	04/11/24 12:50	1
13C3 PFHxS	108		40 - 130	04/09/24 06:43	04/11/24 12:50	1
13C8 PFOS	106		40 - 130	04/09/24 06:43	04/11/24 12:50	1
M2-4:2 FTS	100		40 - 200	04/09/24 06:43	04/11/24 12:50	1
M2-6:2 FTS	112		40 - 200	04/09/24 06:43	04/11/24 12:50	1
M2-8:2 FTS	128		40 - 300	04/09/24 06:43	04/11/24 12:50	1
13C8 FOSA	102		40 - 130	04/09/24 06:43	04/11/24 12:50	1
d3-NMePFOSA	82.1		10 - 130	04/09/24 06:43	04/11/24 12:50	1
d5-NEtPFOSA	77.1		10 - 130	04/09/24 06:43	04/11/24 12:50	1
d3-NMeFOSAA	115		40 - 170	04/09/24 06:43	04/11/24 12:50	1
d5-NEtFOSAA	111		25 - 135	04/09/24 06:43	04/11/24 12:50	1
d7-N-MeFOSE-M	75.8		10 - 130	04/09/24 06:43	04/11/24 12:50	1
d9-N-EtFOSE-M	74.6		10 - 130	04/09/24 06:43	04/11/24 12:50	1
13C3 HFPO-DA	94.4		40 - 130	04/09/24 06:43	04/11/24 12:50	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - REDL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		40	10	ng/L		04/09/24 06:43	04/12/24 15:46	10
Perfluorotridecanoic acid (PFTTrDA)	ND		40	10	ng/L		04/09/24 06:43	04/12/24 15:46	10
Perfluorotetradecanoic acid (PFTeDA)	ND		40	10	ng/L		04/09/24 06:43	04/12/24 15:46	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2-PFDoDA	93.4		10 - 130				04/09/24 06:43	04/12/24 15:46	10
13C2 PFTeDA	107		10 - 130				04/09/24 06:43	04/12/24 15:46	10

Client Sample ID: BRNY-GW-EB1-240320

Lab Sample ID: 410-165004-6

Date Collected: 03/20/24 17:30

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.4	1.9	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoropentanoic acid (PFPeA)	ND		3.7	0.93	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.48	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.59	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-EB1-240320

Lab Sample ID: 410-165004-6

Date Collected: 03/20/24 17:30

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.28	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.37	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.37	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.84	ng/L		03/29/24 07:11	04/03/24 06:45	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.4	1.6	ng/L		03/29/24 07:11	04/03/24 06:45	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.4	2.3	ng/L		03/29/24 07:11	04/03/24 06:45	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.4	2.4	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.7	1.1	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.65	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		19	4.6	ng/L		03/29/24 07:11	04/03/24 06:45	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		19	4.6	ng/L		03/29/24 07:11	04/03/24 06:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.4	1.9	ng/L		03/29/24 07:11	04/03/24 06:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.4	1.4	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.7	0.46	ng/L		03/29/24 07:11	04/03/24 06:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.93	ng/L		03/29/24 07:11	04/03/24 06:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	0.93	ng/L		03/29/24 07:11	04/03/24 06:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.3	1.4	ng/L		03/29/24 07:11	04/03/24 06:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46	9.3	ng/L		03/29/24 07:11	04/03/24 06:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46	9.3	ng/L		03/29/24 07:11	04/03/24 06:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	81.6		5 - 130				03/29/24 07:11	04/03/24 06:45	1
13C5 PFPeA	78.0		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C5 PFHxA	101		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C4 PFHpA	99.3		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C8 PFOA	82.6		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C9 PFNA	86.3		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C6 PFDA	88.7		40 - 130				03/29/24 07:11	04/03/24 06:45	1
13C7 PFUnA	82.9		30 - 130				03/29/24 07:11	04/03/24 06:45	1
13C2-PFDoDA	84.3		10 - 130				03/29/24 07:11	04/03/24 06:45	1
13C2 PFTeDA	82.3		10 - 130				03/29/24 07:11	04/03/24 06:45	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-EB1-240320

Lab Sample ID: 410-165004-6

Date Collected: 03/20/24 17:30

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	98.0		40 - 135	03/29/24 07:11	04/03/24 06:45	1
13C3 PFHxS	89.9		40 - 130	03/29/24 07:11	04/03/24 06:45	1
13C8 PFOS	101		40 - 130	03/29/24 07:11	04/03/24 06:45	1
M2-4:2 FTS	86.6		40 - 200	03/29/24 07:11	04/03/24 06:45	1
M2-6:2 FTS	88.5		40 - 200	03/29/24 07:11	04/03/24 06:45	1
M2-8:2 FTS	84.7		40 - 300	03/29/24 07:11	04/03/24 06:45	1
13C8 FOSA	93.8		40 - 130	03/29/24 07:11	04/03/24 06:45	1
d3-NMePFOSA	75.0		10 - 130	03/29/24 07:11	04/03/24 06:45	1
d5-NEtPFOSA	78.1		10 - 130	03/29/24 07:11	04/03/24 06:45	1
d3-NMeFOSAA	95.6		40 - 170	03/29/24 07:11	04/03/24 06:45	1
d5-NEtFOSAA	99.3		25 - 135	03/29/24 07:11	04/03/24 06:45	1
d7-N-MeFOSE-M	91.3		10 - 130	03/29/24 07:11	04/03/24 06:45	1
d9-N-EtFOSE-M	92.0		10 - 130	03/29/24 07:11	04/03/24 06:45	1
13C3 HFPO-DA	76.0		40 - 130	03/29/24 07:11	04/03/24 06:45	1

Client Sample ID: BRNY-GW-EB2-240321

Lab Sample ID: 410-165004-7

Date Collected: 03/21/24 11:50

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.2	1.8	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoropentanoic acid (PFPeA)	ND		3.6	0.91	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.47	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.58	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.27	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.36	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.36	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.81	ng/L		03/29/24 07:11	04/03/24 06:58	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.2	1.5	ng/L		03/29/24 07:11	04/03/24 06:58	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.2	2.3	ng/L		03/29/24 07:11	04/03/24 06:58	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.2	2.4	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-EB2-240321

Lab Sample ID: 410-165004-7

Date Collected: 03/21/24 11:50

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.6	1.1	ng/L		03/29/24 07:11	04/03/24 06:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.63	ng/L		03/29/24 07:11	04/03/24 06:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5	ng/L		03/29/24 07:11	04/03/24 06:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5	ng/L		03/29/24 07:11	04/03/24 06:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8	ng/L		03/29/24 07:11	04/03/24 06:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.4	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.45	ng/L		03/29/24 07:11	04/03/24 06:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.91	ng/L		03/29/24 07:11	04/03/24 06:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	0.91	ng/L		03/29/24 07:11	04/03/24 06:58	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.1	1.4	ng/L		03/29/24 07:11	04/03/24 06:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	9.1	ng/L		03/29/24 07:11	04/03/24 06:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	9.1	ng/L		03/29/24 07:11	04/03/24 06:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81.1		5 - 130	03/29/24 07:11	04/03/24 06:58	1
13C5 PFPeA	76.9		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C5 PFHxA	92.4		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C4 PFHpA	85.2		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C8 PFOA	79.6		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C9 PFNA	84.7		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C6 PFDA	89.1		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C7 PFUnA	77.7		30 - 130	03/29/24 07:11	04/03/24 06:58	1
13C2-PFDoDA	72.4		10 - 130	03/29/24 07:11	04/03/24 06:58	1
13C2 PFTeDA	74.3		10 - 130	03/29/24 07:11	04/03/24 06:58	1
13C3 PFBS	107		40 - 135	03/29/24 07:11	04/03/24 06:58	1
13C3 PFHxS	87.4		40 - 130	03/29/24 07:11	04/03/24 06:58	1
13C8 PFOS	96.6		40 - 130	03/29/24 07:11	04/03/24 06:58	1
M2-4:2 FTS	87.3		40 - 200	03/29/24 07:11	04/03/24 06:58	1
M2-6:2 FTS	94.9		40 - 200	03/29/24 07:11	04/03/24 06:58	1
M2-8:2 FTS	86.6		40 - 300	03/29/24 07:11	04/03/24 06:58	1
13C8 FOSA	88.8		40 - 130	03/29/24 07:11	04/03/24 06:58	1
d3-NMePFOSA	71.3		10 - 130	03/29/24 07:11	04/03/24 06:58	1
d5-NEtPFOSA	74.2		10 - 130	03/29/24 07:11	04/03/24 06:58	1
d3-NMeFOSAA	95.0		40 - 170	03/29/24 07:11	04/03/24 06:58	1
d5-NEtFOSAA	96.0		25 - 135	03/29/24 07:11	04/03/24 06:58	1
d7-N-MeFOSE-M	88.1		10 - 130	03/29/24 07:11	04/03/24 06:58	1
d9-N-EtFOSE-M	86.5		10 - 130	03/29/24 07:11	04/03/24 06:58	1
13C3 HFPO-DA	67.4		40 - 130	03/29/24 07:11	04/03/24 06:58	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-FB1-240320

Lab Sample ID: 410-165004-8

Date Collected: 03/20/24 17:45

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		7.3	1.8	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoropentanoic acid (PFPeA)	ND		3.7	0.91	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.48	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.59	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.27	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.52	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.37	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.37	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.82	ng/L		03/29/24 07:11	04/03/24 07:11	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.3	1.6	ng/L		03/29/24 07:11	04/03/24 07:11	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.3	2.3	ng/L		03/29/24 07:11	04/03/24 07:11	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.3	2.4	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.7	1.1	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.64	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.6	ng/L		03/29/24 07:11	04/03/24 07:11	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.6	ng/L		03/29/24 07:11	04/03/24 07:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.3	1.8	ng/L		03/29/24 07:11	04/03/24 07:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.7	0.46	ng/L		03/29/24 07:11	04/03/24 07:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.91	ng/L		03/29/24 07:11	04/03/24 07:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	0.91	ng/L		03/29/24 07:11	04/03/24 07:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.1	1.4	ng/L		03/29/24 07:11	04/03/24 07:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46	9.1	ng/L		03/29/24 07:11	04/03/24 07:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46	9.1	ng/L		03/29/24 07:11	04/03/24 07:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-FB1-240320

Lab Sample ID: 410-165004-8

Date Collected: 03/20/24 17:45

Matrix: Water

Date Received: 03/22/24 09:30

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79.9		5 - 130	03/29/24 07:11	04/03/24 07:11	1
13C5 PFPeA	86.7		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C5 PFHxA	102		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C4 PFHpA	104		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C8 PFOA	84.5		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C9 PFNA	87.9		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C6 PFDA	103		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C7 PFUnA	97.9		30 - 130	03/29/24 07:11	04/03/24 07:11	1
13C2-PFDoDA	91.1		10 - 130	03/29/24 07:11	04/03/24 07:11	1
13C2 PFTeDA	91.3		10 - 130	03/29/24 07:11	04/03/24 07:11	1
13C3 PFBS	107		40 - 135	03/29/24 07:11	04/03/24 07:11	1
13C3 PFHxS	92.1		40 - 130	03/29/24 07:11	04/03/24 07:11	1
13C8 PFOS	103		40 - 130	03/29/24 07:11	04/03/24 07:11	1
M2-4:2 FTS	99.3		40 - 200	03/29/24 07:11	04/03/24 07:11	1
M2-6:2 FTS	102		40 - 200	03/29/24 07:11	04/03/24 07:11	1
M2-8:2 FTS	92.6		40 - 300	03/29/24 07:11	04/03/24 07:11	1
13C8 FOSA	96.1		40 - 130	03/29/24 07:11	04/03/24 07:11	1
d3-NMePFOSA	73.4		10 - 130	03/29/24 07:11	04/03/24 07:11	1
d5-NEtPFOSA	74.2		10 - 130	03/29/24 07:11	04/03/24 07:11	1
d3-NMeFOSAA	101		40 - 170	03/29/24 07:11	04/03/24 07:11	1
d5-NEtFOSAA	102		25 - 135	03/29/24 07:11	04/03/24 07:11	1
d7-N-MeFOSE-M	93.5		10 - 130	03/29/24 07:11	04/03/24 07:11	1
d9-N-EtFOSE-M	94.4		10 - 130	03/29/24 07:11	04/03/24 07:11	1
13C3 HFPO-DA	81.1		40 - 130	03/29/24 07:11	04/03/24 07:11	1

Client Sample ID: BRNY-GW-FB2-240321

Lab Sample ID: 410-165004-9

Date Collected: 03/21/24 12:00

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		8.0	2.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoropentanoic acid (PFPeA)	ND		4.0	1.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.52	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.64	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.30	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.40	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorooctanesulfonic acid (PFOS)	0.51	J	2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.40	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-FB2-240321

Lab Sample ID: 410-165004-9

Date Collected: 03/21/24 12:00

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.90	ng/L		03/29/24 07:11	04/03/24 07:24	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		8.0	1.7	ng/L		03/29/24 07:11	04/03/24 07:24	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		8.0	2.5	ng/L		03/29/24 07:11	04/03/24 07:24	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		8.0	2.6	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.0	1.2	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.70	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		20	5.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		20	5.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		8.0	2.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		8.0	1.5	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		4.0	0.50	ng/L		03/29/24 07:11	04/03/24 07:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		4.0	1.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		4.0	1.0	ng/L		03/29/24 07:11	04/03/24 07:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		10	1.5	ng/L		03/29/24 07:11	04/03/24 07:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		50	10	ng/L		03/29/24 07:11	04/03/24 07:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		50	10	ng/L		03/29/24 07:11	04/03/24 07:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	80.8		5 - 130				03/29/24 07:11	04/03/24 07:24	1
13C5 PFPeA	84.0		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C5 PFHxA	101		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C4 PFHpA	107		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C8 PFOA	82.6		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C9 PFNA	87.6		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C6 PFDA	90.6		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C7 PFUnA	86.4		30 - 130				03/29/24 07:11	04/03/24 07:24	1
13C2-PFDoDA	83.7		10 - 130				03/29/24 07:11	04/03/24 07:24	1
13C2 PFTeDA	82.8		10 - 130				03/29/24 07:11	04/03/24 07:24	1
13C3 PFBS	94.6		40 - 135				03/29/24 07:11	04/03/24 07:24	1
13C3 PFHxS	90.4		40 - 130				03/29/24 07:11	04/03/24 07:24	1
13C8 PFOS	102		40 - 130				03/29/24 07:11	04/03/24 07:24	1
M2-4:2 FTS	86.8		40 - 200				03/29/24 07:11	04/03/24 07:24	1
M2-6:2 FTS	88.3		40 - 200				03/29/24 07:11	04/03/24 07:24	1
M2-8:2 FTS	86.7		40 - 300				03/29/24 07:11	04/03/24 07:24	1
13C8 FOSA	91.1		40 - 130				03/29/24 07:11	04/03/24 07:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-FB2-240321

Lab Sample ID: 410-165004-9

Date Collected: 03/21/24 12:00

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	80.7		10 - 130	03/29/24 07:11	04/03/24 07:24	1
d5-NEtPFOSA	82.6		10 - 130	03/29/24 07:11	04/03/24 07:24	1
d3-NMeFOSAA	91.4		40 - 170	03/29/24 07:11	04/03/24 07:24	1
d5-NEtFOSAA	92.4		25 - 135	03/29/24 07:11	04/03/24 07:24	1
d7-N-MeFOSE-M	88.8		10 - 130	03/29/24 07:11	04/03/24 07:24	1
d9-N-EtFOSE-M	88.6		10 - 130	03/29/24 07:11	04/03/24 07:24	1
13C3 HFPO-DA	78.5		40 - 130	03/29/24 07:11	04/03/24 07:24	1

Client Sample ID: BRNY-GW-TB-240320

Lab Sample ID: 410-165004-10

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND	UJ	7.3	1.8	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoropentanoic acid (PFPeA)	ND		3.6	0.91	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.47	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorodecanoic acid (PFDA)	ND	UJ	1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.27	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND	+	1.8	0.52	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.36	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.36	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorodecanesulfonic acid (PFDS)	ND	+	1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND	+	1.8	0.82	ng/L		03/28/24 07:22	04/05/24 11:12	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		7.3	1.5	ng/L		03/28/24 07:22	04/05/24 11:12	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		7.3	2.3	ng/L		03/28/24 07:22	04/05/24 11:12	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		7.3	2.4	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.6	1.1	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	UJ	1.8	0.63	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5	ng/L		03/28/24 07:22	04/05/24 11:12	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5	ng/L		03/28/24 07:22	04/05/24 11:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0174 Former 3M/Dynacolor Site PFAS
Sampling

Job ID: 410-165004-1

Client Sample ID: BRNY-GW-TB-240320

Lab Sample ID: 410-165004-10

Date Collected: 03/20/24 00:00

Matrix: Water

Date Received: 03/22/24 09:30

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.3	1.8	ng/L		03/28/24 07:22	04/05/24 11:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.4	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.45	ng/L		03/28/24 07:22	04/05/24 11:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.91	ng/L		03/28/24 07:22	04/05/24 11:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	0.91	ng/L		03/28/24 07:22	04/05/24 11:12	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.1	1.4	ng/L		03/28/24 07:22	04/05/24 11:12	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	9.1	ng/L		03/28/24 07:22	04/05/24 11:12	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	9.1	ng/L		03/28/24 07:22	04/05/24 11:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	108		5 - 130	03/28/24 07:22	04/05/24 11:12	1
13C5 PFPeA	116		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C5 PFHxA	119		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C4 PFHpA	120		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C9 PFNA	105		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C6 PFDA	112		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C7 PFUnA	119		30 - 130	03/28/24 07:22	04/05/24 11:12	1
13C2-PFDoDA	110		10 - 130	03/28/24 07:22	04/05/24 11:12	1
13C2 PFTeDA	105		10 - 130	03/28/24 07:22	04/05/24 11:12	1
13C3 PFBS	112		40 - 135	03/28/24 07:22	04/05/24 11:12	1
13C3 PFHxS	110		40 - 130	03/28/24 07:22	04/05/24 11:12	1
13C8 PFOS	112		40 - 130	03/28/24 07:22	04/05/24 11:12	1
M2-4:2 FTS	99.5		40 - 200	03/28/24 07:22	04/05/24 11:12	1
M2-6:2 FTS	110		40 - 200	03/28/24 07:22	04/05/24 11:12	1
M2-8:2 FTS	103		40 - 300	03/28/24 07:22	04/05/24 11:12	1
13C8 FOSA	99.7		40 - 130	03/28/24 07:22	04/05/24 11:12	1
d3-NMePFOSA	94.8		10 - 130	03/28/24 07:22	04/05/24 11:12	1
d5-NEtPFOSA	92.4		10 - 130	03/28/24 07:22	04/05/24 11:12	1
d3-NMeFOSAA	128		40 - 170	03/28/24 07:22	04/05/24 11:12	1
d5-NEtFOSAA	121		25 - 135	03/28/24 07:22	04/05/24 11:12	1
d7-N-MeFOSE-M	101		10 - 130	03/28/24 07:22	04/05/24 11:12	1
d9-N-EtFOSE-M	111		10 - 130	03/28/24 07:22	04/05/24 11:12	1
13C3 HFPO-DA	118		40 - 130	03/28/24 07:22	04/05/24 11:12	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND	*F	18	5.8	ng/L		03/28/24 07:22	04/05/24 13:36	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	93.0		40 - 130				03/28/24 07:22	04/05/24 13:36	10

3M Company

Data Usability Summary Report

Brockport, New York

Dissolved Gases Analyses

SDG # 70291577

Analyses Performed By:

Pace analytical

Melville, New York

Report # 54622R

Review Level: Tier III

Project: 30169183.00001

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 70291577 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					Dissolved Gases
AGM-1-OB-20240320	70291577001	Water	03/20/24		X
FB-02-20240320	70291577002	Water	03/20/24		X

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to method RSK 175. Data were reviewed in accordance with the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Dissolved Gases Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
RSK-175	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (30%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All initial calibration criteria were within the control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (30%) and RRF value greater than control limit (0.05).

All continuing calibration criteria were within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD analysis was not performed on samples from this SDG.

5. Laboratory Duplicate Sample Analysis

The laboratory duplicate sample relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

A laboratory duplicate analysis was performed on sample FB-02-20240320 exhibited RPDs within the control limit.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for sample from this SDG.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Dissolved Gases

SVOCs: EPA RSK-175	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries	X				X	
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
Initial calibration %RSD or correlation coefficient		X		X		
Continuing calibration %R		X		X		
Raw Data		X		X		
Quantitation transcriptions/calculations		X		X		
Reporting limits adjusted for sample dilutions		X		X		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SAMPLE COMPLIANCE REPORT

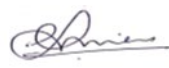
Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹	Noncompliance
					Diss. Gases	
70291577	03/20/24	EPA RSK 175	AGM-1-OB-20240320	Water	Yes	--
	03/20/24	EPA RSK 175	FB-02-20240320	Water	Yes	--

Note:

1. Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Hima J D

SIGNATURE: 

DATE: June 24, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 25, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Pace® Location Requested (City/State):
Pace Analytical Long Island NY
575 Broad Hollow Rd, Melville, NY 11747

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 70291577



70291577

Company Name:	Arcadis	Contact/Report To:	Liao, Kaiti
Street Address:	10 Friends Lane, Newtown, PA 18940	Phone #:	(267)685-1822
		E-Mail:	kaiti.liao@arcadis.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	3M/Dynacolor	Invoice To:	
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: ☐ AK ☐ PT ☐ MT ☐ CT ☒ ET			County / State origin of sample(s): New York		
Data Deliverables:			Regulatory Program (DW, RCRA, etc.) as applicable: Reportable ☐ Yes ☐ No		
☐ Level II ☐ Level III ☒ Level IV ☒ EQUIS			Rush (Pre-approval required): ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ Other _____		
☐ Other _____			DW PWSID # or WW Permit # as applicable: Date Results Requested: _____		
			Field Filtered (if applicable): ☐ Yes ☐ No Analysis: _____		

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

[illegible]

Specify Container Size **										**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL Vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
6										
Identify Container Preservative Type***										*** Preservative Types: (1) None, (2) HNO ₃ , (3) H ₂ SO ₄ , (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaOH ₂ , (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other
4										
Analysis Requested										

[illegible]

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
3M/Dynacolor site in Brockport, NY.
Dissolved Gasses (methane, ethane, ethene) by method RSK-175
PN: 30208031

Task: 000001

Collected By:
(Printed Name) Bailey Kudla-Williams

Signature: 

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	4211			3.5	✓

Relinquished by/Company: (Signature) <i>[Signature]</i> / ANA	Date/Time: 3/21/24 1730	Received by/Company: (Signature) <i>[Signature]</i> / Rec LG	Date/Time: 3/22/24 9:40	Tracking Number: 7057 1746 458
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: ☐ In-Person ☐ Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	☐ FedEx ☐ UPS ☐ Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©



ANALYTICAL RESULTS

Project: 3M/DYNACOLOR 3/20

Pace Project No.: 70291577

Sample: AGM-1-OB-20240320		Lab ID: 70291577001		Collected: 03/20/24 17:55		Received: 03/22/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) RSK175									
Analytical Method: RSK-175 Preparation Method: RSK175									
Pace National - Mt. Juliet									
Methane	4330	ug/L	10.0	2.91	1	04/01/24 14:25	04/01/24 14:25	74-82-8	
Ethane	<13.0	ug/L	13.0	4.07	1	04/01/24 14:25	04/01/24 14:25	74-84-0	
Ethene	<13.0	ug/L	13.0	4.26	1	04/01/24 14:25	04/01/24 14:25	74-85-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M/DYNACOLOR 3/20
Pace Project No.: 70291577

Sample: FB-02-20240320		Lab ID: 70291577002		Collected: 03/20/24 17:55		Received: 03/22/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) RSK175		Analytical Method: RSK-175 Preparation Method: RSK175 Pace National - Mt. Juliet							
Methane	<10.0	ug/L	10.0	2.91	1	04/01/24 14:31	04/01/24 14:31	74-82-8	
Ethane	<13.0	ug/L	13.0	4.07	1	04/01/24 14:31	04/01/24 14:31	74-84-0	
Ethene	<13.0	ug/L	13.0	4.26	1	04/01/24 14:31	04/01/24 14:31	74-85-1	

REPORT OF LABORATORY ANALYSIS

3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compounds (VOCs), Semi Volatile Organic compounds (SVOCs) and Miscellaneous Analyses

SDG # 480-223723-1

Analyses Performed By:
Eurofins Test America
Buffalo, New York

Report # 57841R
Review Level: Tier III
Project: 30208031.00001

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-223723-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	Misc.
BRNY-GW-AGM1OB-0-240924	480-223723-1	Water	09/24/2024		X	X	X
BRNY-GW-AGM3OB-0-240924	480-223723-2	Water	09/24/2024		X	X	X
BRNY-GW-AGM1SB-0-240924	480-223723-3	Water	09/24/2024		X	X	X
BRNY-GW-AGM5OB-0-240924	480-223723-4	Water	09/24/2024		X	X	
BRNY-GW-AGM5SB-0-240924	480-223723-5	Water	09/24/2024		X	X	X
BRNY-GW-FB1-240924	480-223723-6	Water	09/24/2024		X	X	X
BRNY-GW-AGM1IB-0-240925	480-223723-7	Water	09/25/2024			X	
BRNY-GW-MW99J(I)-0-240925	480-223723-8	Water	09/25/2024		X	X	X
BRNY-GW-DB1-240925	480-223723-9	Water	09/25/2024	BRNY-GW-MW99J(I)-0-240925	X	X	X
BRNY-GW-AGM8OB-0-240925	480-223723-10	Water	09/25/2024		X		X
BRNY-GW-AGM8SB-0-240925	480-223723-11	Water	09/25/2024		X		
BRNY-GW-MW99J(S)-0-240925	480-223723-12	Water	09/25/2024		X	X	
BRNY-GW-MW99J(D)-0-240925	480-223723-13	Water	09/25/2024			X	
BRNY-GW-AGM2IB-0-240925	480-223723-14	Water	09/25/2024			X	
BRNY-GW-FB2-240925	480-223723-15	Water	09/25/2024		X	X	X
BRNY-GW-EB2-240925	480-223723-16	Water	09/25/2024		X	X	X
BRNY-GW-TB1-240925	480-223723-17	Water	09/25/2024		X		

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi Volatile Organic Compounds

Misc. = Miscellaneous analysis including Total Organic Carbon and Total Cyanide

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D SIM. Data were reviewed in accordance with the USEPA Region II validation guidelines Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C (SOP #HW-24, October 2006) and SW-846 Method 8070D (SOP #HW-35, October 2006); and the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	7 days from collection to analysis (un-preserved) 14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was performed on sample BRNY-GW-MW99J(I)-0-240925 exhibited recoveries and RPDs within the control limit with the exceptions noted below.

Sample ID	Compound	MS Recovery	MSD Recovery
BRNY-GW-MW99J(I)-0-240925	2-Chloroethyl vinyl ether	<10%	<10%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample ID	Compound
BRNY-GW-MW99J(I)-0-240925	Benzene Ethylbenzene m-Xylene & p-Xylene Toluene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit percent recoveries and RPDs within the laboratory-established acceptance limits.

The LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. Tentatively Identified Compounds (TICs)

TICs were reported if detected in the samples. TICs were evaluated for possible lab contaminants as described in USEPA validation guidelines. TICs identified as possible lab contaminants in the guidelines were qualified as rejected (R). TICs reported in the method blanks, or the field QC blanks were qualified as rejected (R) and removed from the final data set. All accepted TIC results were flagged as JN to indicate that the identification is uncertain, and the concentrations are considered estimated.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
BRNY-GW-AGM1OB-0-240924	Chloroethane	1900 E	2400	2400 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Trip blanks		X		X		
D. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate (MSD)		X	X			
MS/MSD Precision (RPD)		X	X			
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		

Data Usability Summary Report

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	
Tentatively identified compounds		X		X	

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock. System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was performed on sample BRNY-GW-MW99J(I)-0-240925 exhibited recoveries and RPDs within the control limit.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
BRNY-GW-MW99J(I)-0-240925/ BRNY-GW-DB1-240925	1,4-Dioxane	0.34	0.35	AC

Notes:

AC = acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate (MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
D. Reconstructed ion chromatograms		X		X		
E. Quantitation Reports		X		X		
F. RT of sample compounds within the established RT windows		X		X		
G. Transcription/calculation errors present		X		X		
H. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Inorganic Analysis Introduction

Analyses were performed according to method USEPA SM 5310C and 9012B. Data were reviewed in accordance with the USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Organic Carbon by SW-846 5310C	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2.
Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) from the data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Analytes	Sample Result	Qualification
BRNY-GW-MW99J(I)-0-240925 BRNY-GW-DB1-240925	Cyanide total (MB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

RL = reporting limit

MB = method blank

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS analysis performed on sample BRNY-GW-FB1-240924 for the cyanide analysis. The MS analysis exhibited recoveries within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

The laboratory duplicate analysis was performed on sample BRNY-GW-FB1-240924 for the cyanide analysis. The laboratory duplicate analysis exhibited an acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
BRNY-GW-MW99J(I)-0-240925/ BRNY-GW-DB1-240925	Cyanide	0.0053 J	0.0049 J	AC

Notes:

AC = acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 9012B and SM 5310C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R = percent recovery

RPD = relative percent difference

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOC	SVOC	TOC	Cyanide	
480-223723-1	09/24/2024	SW846	BRNY-GW-AGM1OB-0-240924	Water	No	Yes	Yes	Yes	2-chloroethyl vinyl ether result rejection
	09/24/2024	SW846	BRNY-GW-AGM3OB-0-240924	Water	No	Yes	Yes	--	2-chloroethyl vinyl ether result rejection
	09/24/2024	SW846	BRNY-GW-AGM1SB-0-240924	Water	No	Yes	Yes	--	2-chloroethyl vinyl ether result rejection
	09/24/2024	SW846	BRNY-GW-AGM5OB-0-240924	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/24/2024	SW846	BRNY-GW-AGM5SB-0-240924	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/24/2024	SW846	BRNY-GW-FB1-240924	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-AGM1IB-0-240925	Water	--	Yes	--	--	
	09/25/2024	SW846	BRNY-GW-MW99J(I)-0-240925	Water	No	Yes	--	Yes	MS/MSD recoveries and RPD outside control limits. 2-chloroethyl vinyl ether result rejection Cyanide detected in MB.
	09/25/2024	SW846	BRNY-GW-DB1-240925	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection. Cyanide detected in MB.
	09/25/2024	SW846	BRNY-GW-AGM8OB-0-240925	Water	No	--	Yes	--	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-AGM8SB-0-240925	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-MW99J(S)-0-240925	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-MW99J(D)-0-240925	Water	--	Yes	--	--	
	09/25/2024	SW846	BRNY-GW-AGM2IB-0-240925	Water	--	Yes	--	--	
	09/25/2024	SW846	BRNY-GW-FB2-240925	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-EB2-240925	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/25/2024	SW846	BRNY-GW-TB1-240925	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection

Note:

DATA USABILITY SUMMARY REPORT

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 10, 2025

PEER REVIEW: Rachelle Borne

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Environment Testing
America

Client Information		Samplers Kaitlyn Fleming, Robbie Sullivan		Lab PM: John Beninati		Carrier Tracking No(s):		COC No.															
Client Contact Ryan Clare		Phone Kaitlyn's cell - 619.727.1921		E-Mail john.beninati@et.eurofinsus.com		State of Origin New York		Page 1 of 2															
Company Arcadis of New York, Inc.		PWSID:		Analysis Requested						Job #													
Address 100 Chestnut Street Suite 1020		Due Date Requested:		Analysis Requested						Preservation Codes:													
City: Rochester		TAT Requested (days): Standard (10)																					
State, Zip NY, 14604		Compliance Project: ☐ Yes ☐ No																					
Phone: 1-585-662-4057		PO #: 30208031.00001																					
Email: Ryan.Clare@arcadis.com		WO #:																					
Project Name 3M-Brockport		Project #: 30208031.00001		if containers						Other:													
Site: Brockport, NY		SSOW#:																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform Micro (Yes or No)		8260C - 8260 (MOD) ASP00 with Tics		9012B - Total Cyanide		SM5310D - TOC		8270D_SIM - 1,4 Dioxane			
BRNY-GW- AGM10B-Ø-24Ø924		9/24/24		11ØØ		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM30B-Ø-24Ø924		9/24/24		1Ø5Ø		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM15B-Ø-24Ø924		9/24/24		1425		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM50B-Ø-24Ø924		9/24/24		1415		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM55B-Ø-24Ø924		9/24/24		164Ø		G		Water		N		N		X		X		X		X			
BRNY-GW- FB1-24Ø924		9/24/24		1615		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM11B-Ø-24Ø925		9/25/24		Ø91Ø		G		Water		N		N		X		X		X		X			
BRNY-GW- MWØ9J(I)-Ø-24Ø925		9/25/24		1ØØ5		G		Water		N		N		X		X		X		X			
BRNY-GW- DB1-24Ø925		9/25/24		—		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM80B-Ø-24Ø925		9/25/24		1115		G		Water		N		N		X		X		X		X			
BRNY-GW- AGM85B-Ø-24Ø925		9/25/24		1315		G		Water		N		N		X		X		X		X			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐										Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months													
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:													
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact:				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:															
☐ Yes ☐ No																							

Ver: 01/16/2019

3:54:14 PM

**Environment Testing
America**

Ver: 01/16/2019

11/22/2024
3:54:14 PM

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM1OB-0-240924

Lab Sample ID: 480-223723-1

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			09/27/24 03:50	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			09/27/24 03:50	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			09/27/24 03:50	10
1,1-Dichloroethane	ND		10	3.8	ug/L			09/27/24 03:50	10
1,1-Dichloroethene	ND		10	2.9	ug/L			09/27/24 03:50	10
1,2-Dichloroethane	ND		10	2.1	ug/L			09/27/24 03:50	10
1,2-Dichloropropane	ND		10	7.2	ug/L			09/27/24 03:50	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			09/27/24 03:50	10
Acrolein	ND		200	9.1	ug/L			09/27/24 03:50	10
Acrylonitrile	ND		200	8.3	ug/L			09/27/24 03:50	10
Benzene	ND		10	4.1	ug/L			09/27/24 03:50	10
Bromodichloromethane	ND		10	3.9	ug/L			09/27/24 03:50	10
Bromoform	ND		10	2.6	ug/L			09/27/24 03:50	10
Bromomethane	ND		10	6.9	ug/L			09/27/24 03:50	10
Carbon tetrachloride	ND		10	2.7	ug/L			09/27/24 03:50	10
Chlorobenzene	ND		10	7.5	ug/L			09/27/24 03:50	10
Chloroethane	1900 E		10	3.2	ug/L			09/27/24 03:50	10
Chloroform	ND		10	3.4	ug/L			09/27/24 03:50	10
Chloromethane	ND		10	3.5	ug/L			09/27/24 03:50	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			09/27/24 03:50	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			09/27/24 03:50	10
Dibromochloromethane	ND		10	3.2	ug/L			09/27/24 03:50	10
Ethylbenzene	ND		10	7.4	ug/L			09/27/24 03:50	10
Methylene Chloride	ND		20	4.4	ug/L			09/27/24 03:50	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			09/27/24 03:50	10
o-Xylene	ND		10	7.6	ug/L			09/27/24 03:50	10
Tetrachloroethene	ND		10	3.6	ug/L			09/27/24 03:50	10
Toluene	ND		10	5.1	ug/L			09/27/24 03:50	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			09/27/24 03:50	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			09/27/24 03:50	10
Trichloroethene	ND		10	4.6	ug/L			09/27/24 03:50	10
Vinyl chloride	ND		10	9.0	ug/L			09/27/24 03:50	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 03:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					09/27/24 03:50	10
4-Bromofluorobenzene (Surr)	95		73 - 120					09/27/24 03:50	10
Toluene-d8 (Surr)	102		80 - 120					09/27/24 03:50	10
Dibromofluoromethane (Surr)	97		75 - 123					09/27/24 03:50	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			09/27/24 20:57	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			09/27/24 20:57	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			09/27/24 20:57	40
1,1-Dichloroethane	ND		40	15	ug/L			09/27/24 20:57	40
1,1-Dichloroethene	ND		40	12	ug/L			09/27/24 20:57	40
1,2-Dichloroethane	ND		40	8.4	ug/L			09/27/24 20:57	40

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM10B-0-240924

Lab Sample ID: 480-223723-1

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
~~1,2-Dichloropropane~~	~~ND~~		~~40~~	~~29~~	~~ug/L~~			~~09/27/24 20:57~~	~~40~~
2-Chloroethyl Vinyl Ether	ND		200	38	ug/L			09/27/24 20:57	40
Acrolein	ND		800	36	ug/L			09/27/24 20:57	40
Acrylonitrile	ND		800	33	ug/L			09/27/24 20:57	40
Benzene	ND		40	16	ug/L			09/27/24 20:57	40
Bromodichloromethane	ND		40	16	ug/L			09/27/24 20:57	40
Bromoform	ND		40	10	ug/L			09/27/24 20:57	40
Bromomethane	ND		40	28	ug/L			09/27/24 20:57	40
Carbon tetrachloride	ND		40	11	ug/L			09/27/24 20:57	40
Chlorobenzene	37	J	40	30	ug/L			09/27/24 20:57	40
Chloroethane	2400	D	40	13	ug/L			09/27/24 20:57	40
~~Chloroform~~	~~ND~~		~~40~~	~~14~~	~~ug/L~~			~~09/27/24 20:57~~	~~40~~
Chloromethane	ND		40	14	ug/L			09/27/24 20:57	40
cis-1,2-Dichloroethane	ND		40	32	ug/L			09/27/24 20:57	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			09/27/24 20:57	40
Dibromochloromethane	ND		40	13	ug/L			09/27/24 20:57	40
Ethylbenzene	ND		40	30	ug/L			09/27/24 20:57	40
Methylene Chloride	ND		80	18	ug/L			09/27/24 20:57	40
m-Xylene & p-Xylene	ND		80	26	ug/L			09/27/24 20:57	40
o-Xylene	ND		40	30	ug/L			09/27/24 20:57	40
Tetrachloroethene	ND		40	14	ug/L			09/27/24 20:57	40
Toluene	ND		40	20	ug/L			09/27/24 20:57	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			09/27/24 20:57	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			09/27/24 20:57	40
Trichloroethene	ND		40	18	ug/L			09/27/24 20:57	40
Vinyl chloride	ND		40	36	ug/L			09/27/24 20:57	40

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
~~Tentatively Identified Compound~~	~~None~~		~~ug/L~~			~~N/A~~		~~09/27/24 20:57~~	~~40~~

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/27/24 20:57	40
4-Bromofluorobenzene (Surr)	96		73 - 120		09/27/24 20:57	40
Toluene-d8 (Surr)	95		80 - 120		09/27/24 20:57	40
Dibromofluoromethane (Surr)	101		75 - 123		09/27/24 20:57	40

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	34		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 14:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				09/26/24 17:25	09/27/24 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.059	N	0.010	0.0041	mg/L			10/02/24 12:35	1
Total Organic Carbon (SM 5310C)	34.1		1.0	0.43	mg/L			09/27/24 11:06	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM3OB-0-240924

Lab Sample ID: 480-223723-2

Date Collected: 09/24/24 10:50

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/27/24 04:14	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/27/24 04:14	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/27/24 04:14	2
1,1-Dichloroethane	2.7		2.0	0.76	ug/L			09/27/24 04:14	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/27/24 04:14	2
1,2-Dichloroethane	0.55	J	2.0	0.42	ug/L			09/27/24 04:14	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/27/24 04:14	2
2-Chloroethyl vinyl ether	R ND		10	1.0	ug/L			09/27/24 04:14	2
Acrolein	ND		40	1.8	ug/L			09/27/24 04:14	2
Acrylonitrile	ND		40	1.7	ug/L			09/27/24 04:14	2
Benzene	ND		2.0	0.82	ug/L			09/27/24 04:14	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/27/24 04:14	2
Bromoform	ND		2.0	0.52	ug/L			09/27/24 04:14	2
Bromomethane	ND		2.0	1.4	ug/L			09/27/24 04:14	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/27/24 04:14	2
Chlorobenzene	3.9		2.0	1.5	ug/L			09/27/24 04:14	2
Chloroethane	ND		2.0	0.64	ug/L			09/27/24 04:14	2
Chloroform	ND		2.0	0.68	ug/L			09/27/24 04:14	2
Chloromethane	ND		2.0	0.70	ug/L			09/27/24 04:14	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/27/24 04:14	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/27/24 04:14	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/27/24 04:14	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/27/24 04:14	2
Methylene Chloride	ND		4.0	0.88	ug/L			09/27/24 04:14	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			09/27/24 04:14	2
o-Xylene	ND		2.0	1.5	ug/L			09/27/24 04:14	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/27/24 04:14	2
Toluene	ND		2.0	1.0	ug/L			09/27/24 04:14	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/27/24 04:14	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/27/24 04:14	2
Trichloroethene	ND		2.0	0.92	ug/L			09/27/24 04:14	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/27/24 04:14	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 04:14	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/27/24 04:14	2
4-Bromofluorobenzene (Surr)	99		73 - 120		09/27/24 04:14	2
Toluene-d8 (Surr)	104		80 - 120		09/27/24 04:14	2
Dibromofluoromethane (Surr)	95		75 - 123		09/27/24 04:14	2

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	84		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 14:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		15 - 110				09/26/24 17:25	09/27/24 14:54	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM3OB-0-240924

Lab Sample ID: 480-223723-2

Date Collected: 09/24/24 10:50

Matrix: Water

Date Received: 09/26/24 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	22.7		1.0	0.43	mg/L			09/27/24 11:33	1

Client Sample ID: BRNY-GW-AGM1SB-0-240924

Lab Sample ID: 480-223723-3

Date Collected: 09/24/24 14:25

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			09/27/24 04:37	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			09/27/24 04:37	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			09/27/24 04:37	4
1,1-Dichloroethane	240		4.0	1.5	ug/L			09/27/24 04:37	4
1,1-Dichloroethene	13		4.0	1.2	ug/L			09/27/24 04:37	4
1,2-Dichloroethane	1.2	J	4.0	0.84	ug/L			09/27/24 04:37	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			09/27/24 04:37	4
2-Chloroethyl vinyl ether	R ND		20	3.8	ug/L			09/27/24 04:37	4
Acrolein	ND		80	3.6	ug/L			09/27/24 04:37	4
Acrylonitrile	ND		80	3.3	ug/L			09/27/24 04:37	4
Benzene	ND		4.0	1.6	ug/L			09/27/24 04:37	4
Bromodichloromethane	ND		4.0	1.6	ug/L			09/27/24 04:37	4
Bromoform	ND		4.0	1.0	ug/L			09/27/24 04:37	4
Bromomethane	ND		4.0	2.8	ug/L			09/27/24 04:37	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			09/27/24 04:37	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/27/24 04:37	4
Chloroethane	81		4.0	1.3	ug/L			09/27/24 04:37	4
Chloroform	ND		4.0	1.4	ug/L			09/27/24 04:37	4
Chloromethane	ND		4.0	1.4	ug/L			09/27/24 04:37	4
cis-1,2-Dichloroethene	9.1		4.0	3.2	ug/L			09/27/24 04:37	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			09/27/24 04:37	4
Dibromochloromethane	ND		4.0	1.3	ug/L			09/27/24 04:37	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/27/24 04:37	4
Methylene Chloride	ND		8.0	1.8	ug/L			09/27/24 04:37	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			09/27/24 04:37	4
o-Xylene	ND		4.0	3.0	ug/L			09/27/24 04:37	4
Tetrachloroethene	ND		4.0	1.4	ug/L			09/27/24 04:37	4
Toluene	ND		4.0	2.0	ug/L			09/27/24 04:37	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			09/27/24 04:37	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			09/27/24 04:37	4
Trichloroethene	6.1		4.0	1.8	ug/L			09/27/24 04:37	4
Vinyl chloride	8.8		4.0	3.6	ug/L			09/27/24 04:37	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 04:37	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/27/24 04:37	4
4-Bromofluorobenzene (Surr)	101		73 - 120		09/27/24 04:37	4
Toluene-d8 (Surr)	108		80 - 120		09/27/24 04:37	4
Dibromofluoromethane (Surr)	97		75 - 123		09/27/24 04:37	4

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM1SB-0-240924

Lab Sample ID: 480-223723-3

Date Collected: 09/24/24 14:25

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220		1.0	0.50	ug/L		09/26/24 17:25	09/30/24 17:47	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				09/26/24 17:25	09/30/24 17:47	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	18.9		1.0	0.43	mg/L			09/27/24 12:01	1

Client Sample ID: BRNY-GW-AGM5OB-0-240924

Lab Sample ID: 480-223723-4

Date Collected: 09/24/24 14:15

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			09/27/24 05:01	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			09/27/24 05:01	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			09/27/24 05:01	4
1,1-Dichloroethane	3.0	J	4.0	1.5	ug/L			09/27/24 05:01	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			09/27/24 05:01	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			09/27/24 05:01	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			09/27/24 05:01	4
2-Chloroethyl vinyl ether	R ND		20	3.8	ug/L			09/27/24 05:01	4
Acrolein	ND		80	3.6	ug/L			09/27/24 05:01	4
Acrylonitrile	ND		80	3.3	ug/L			09/27/24 05:01	4
Benzene	ND		4.0	1.6	ug/L			09/27/24 05:01	4
Bromodichloromethane	ND		4.0	1.6	ug/L			09/27/24 05:01	4
Bromoform	ND		4.0	1.0	ug/L			09/27/24 05:01	4
Bromomethane	ND		4.0	2.8	ug/L			09/27/24 05:01	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			09/27/24 05:01	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/27/24 05:01	4
Chloroethane	ND		4.0	1.3	ug/L			09/27/24 05:01	4
Chloroform	ND		4.0	1.4	ug/L			09/27/24 05:01	4
Chloromethane	ND		4.0	1.4	ug/L			09/27/24 05:01	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			09/27/24 05:01	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			09/27/24 05:01	4
Dibromochloromethane	ND		4.0	1.3	ug/L			09/27/24 05:01	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/27/24 05:01	4
Methylene Chloride	ND		8.0	1.8	ug/L			09/27/24 05:01	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			09/27/24 05:01	4
o-Xylene	ND		4.0	3.0	ug/L			09/27/24 05:01	4
Tetrachloroethene	ND		4.0	1.4	ug/L			09/27/24 05:01	4
Toluene	ND		4.0	2.0	ug/L			09/27/24 05:01	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			09/27/24 05:01	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			09/27/24 05:01	4
Trichloroethene	ND		4.0	1.8	ug/L			09/27/24 05:01	4
Vinyl chloride	ND		4.0	3.6	ug/L			09/27/24 05:01	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 05:01	4

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM5OB-0-240924

Lab Sample ID: 480-223723-4

Date Collected: 09/24/24 14:15

Matrix: Water

Date Received: 09/26/24 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/27/24 05:01	4
4-Bromofluorobenzene (Surr)	99		73 - 120		09/27/24 05:01	4
Toluene-d8 (Surr)	108		80 - 120		09/27/24 05:01	4
Dibromofluoromethane (Surr)	99		75 - 123		09/27/24 05:01	4

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 17:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110				09/26/24 17:25	09/27/24 17:24	1

Client Sample ID: BRNY-GW-AGM5SB-0-240924

Lab Sample ID: 480-223723-5

Date Collected: 09/24/24 16:40

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/27/24 05:26	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/27/24 05:26	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/27/24 05:26	2
1,1-Dichloroethane	13		2.0	0.76	ug/L			09/27/24 05:26	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/27/24 05:26	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/27/24 05:26	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/27/24 05:26	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			09/27/24 05:26	2
Acrolein	ND		40	1.8	ug/L			09/27/24 05:26	2
Acrylonitrile	ND		40	1.7	ug/L			09/27/24 05:26	2
Benzene	ND		2.0	0.82	ug/L			09/27/24 05:26	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/27/24 05:26	2
Bromoform	ND		2.0	0.52	ug/L			09/27/24 05:26	2
Bromomethane	ND		2.0	1.4	ug/L			09/27/24 05:26	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/27/24 05:26	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/27/24 05:26	2
Chloroethane	11		2.0	0.64	ug/L			09/27/24 05:26	2
Chloroform	ND		2.0	0.68	ug/L			09/27/24 05:26	2
Chloromethane	ND		2.0	0.70	ug/L			09/27/24 05:26	2
cis-1,2-Dichloroethene	2.1		2.0	1.6	ug/L			09/27/24 05:26	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/27/24 05:26	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/27/24 05:26	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/27/24 05:26	2
Methylene Chloride	ND		4.0	0.88	ug/L			09/27/24 05:26	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			09/27/24 05:26	2
o-Xylene	ND		2.0	1.5	ug/L			09/27/24 05:26	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/27/24 05:26	2
Toluene	ND		2.0	1.0	ug/L			09/27/24 05:26	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/27/24 05:26	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/27/24 05:26	2
Trichloroethene	ND		2.0	0.92	ug/L			09/27/24 05:26	2
Vinyl chloride	6.9		2.0	1.8	ug/L			09/27/24 05:26	2

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM5SB-0-240924

Lab Sample ID: 480-223723-5

Date Collected: 09/24/24 16:40

Matrix: Water

Date Received: 09/26/24 09:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 05:26	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		09/27/24 05:26	2
4-Bromofluorobenzene (Surr)	93		73 - 120		09/27/24 05:26	2
Toluene-d8 (Surr)	101		80 - 120		09/27/24 05:26	2
Dibromofluoromethane (Surr)	95		75 - 123		09/27/24 05:26	2

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	73		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 15:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				09/26/24 17:25	09/27/24 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	N	0.010	0.0041	mg/L			10/02/24 13:04	1

Client Sample ID: BRNY-GW-FB1-240924

Lab Sample ID: 480-223723-6

Date Collected: 09/24/24 15:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 05:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 05:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 05:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 05:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 05:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 05:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 05:51	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 05:51	1
Acrolein	ND		20	0.91	ug/L			09/27/24 05:51	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 05:51	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 05:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 05:51	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 05:51	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 05:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 05:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 05:51	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 05:51	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 05:51	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 05:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 05:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 05:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 05:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 05:51	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 05:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 05:51	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 05:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 05:51	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-FB1-240924

Lab Sample ID: 480-223723-6

Date Collected: 09/24/24 15:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.51	ug/L			09/27/24 05:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 05:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 05:51	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 05:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 05:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/27/24 05:51	1
4-Bromofluorobenzene (Surr)	96		73 - 120		09/27/24 05:51	1
Toluene-d8 (Surr)	103		80 - 120		09/27/24 05:51	1
Dibromofluoromethane (Surr)	95		75 - 123		09/27/24 05:51	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 15:58	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane-d8	28		15 - 110				09/26/24 17:25	09/27/24 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/02/24 12:55	1

Client Sample ID: BRNY-GW-AGM1IB-0-240925

Lab Sample ID: 480-223723-7

Date Collected: 09/25/24 09:10

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 16:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				09/26/24 17:25	09/27/24 16:19	1

Client Sample ID: BRNY-GW-MW99J(I)-0-240925

Lab Sample ID: 480-223723-8

Date Collected: 09/25/24 10:05

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 06:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 06:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 06:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 06:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 06:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 06:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 06:15	1
2-Chloroethyl vinyl ether	R ND	F1	5.0	0.96	ug/L			09/27/24 06:15	1
Acrolein	ND		20	0.91	ug/L			09/27/24 06:15	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 06:15	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-MW99J(I)-0-240925

Lab Sample ID: 480-223723-8

Date Collected: 09/25/24 10:05

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	~~F2~~ UJ	1.0	0.41	ug/L			09/27/24 06:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 06:15	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 06:15	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 06:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 06:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 06:15	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 06:15	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 06:15	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 06:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 06:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 06:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 06:15	1
Ethylbenzene	ND	~~F2~~ UJ	1.0	0.74	ug/L			09/27/24 06:15	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 06:15	1
m-Xylene & p-Xylene	ND	~~F2~~ UJ	2.0	0.66	ug/L			09/27/24 06:15	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 06:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 06:15	1
Toluene	ND	~~F2~~ UJ	1.0	0.51	ug/L			09/27/24 06:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 06:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 06:15	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 06:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 06:15	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Hexanol, 2-ethyl-	2.8	~~TJN~~ JN	ug/L		11.12	104-76-7		09/27/24 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/27/24 06:15	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/27/24 06:15	1
Toluene-d8 (Surr)	107		80 - 120		09/27/24 06:15	1
Dibromofluoromethane (Surr)	96		75 - 123		09/27/24 06:15	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.34		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 14:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	37		15 - 110				09/26/24 17:25	09/27/24 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	~~0.0053~~ J-B	0.010 UB	0.010	0.0041	mg/L			10/02/24 13:07	1

Client Sample ID: BRNY-GW-DB1-240925

Lab Sample ID: 480-223723-9

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 06:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 06:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 06:39	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-DB1-240925

Lab Sample ID: 480-223723-9

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 06:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 06:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 06:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 06:39	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 06:39	1
Acrolein	ND		20	0.91	ug/L			09/27/24 06:39	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 06:39	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 06:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 06:39	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 06:39	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 06:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 06:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 06:39	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 06:39	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 06:39	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 06:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 06:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 06:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 06:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 06:39	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 06:39	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 06:39	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 06:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 06:39	1
Toluene	ND		1.0	0.51	ug/L			09/27/24 06:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 06:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 06:39	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 06:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 06:39	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/27/24 06:39	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/27/24 06:39	1
Toluene-d8 (Surr)	106		80 - 120		09/27/24 06:39	1
Dibromofluoromethane (Surr)	97		75 - 123		09/27/24 06:39	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.35		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 16:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				09/26/24 17:25	09/27/24 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	~~0.0049~~ 0.010	~~J B~~ UB	0.010	0.0041	mg/L			10/02/24 13:10	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM8OB-0-240925

Lab Sample ID: 480-223723-10

Date Collected: 09/25/24 11:15

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/27/24 07:04	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/27/24 07:04	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/27/24 07:04	2
1,1-Dichloroethane	18		2.0	0.76	ug/L			09/27/24 07:04	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/27/24 07:04	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/27/24 07:04	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/27/24 07:04	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			09/27/24 07:04	2
Acrolein	ND		40	1.8	ug/L			09/27/24 07:04	2
Acrylonitrile	ND		40	1.7	ug/L			09/27/24 07:04	2
Benzene	ND		2.0	0.82	ug/L			09/27/24 07:04	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/27/24 07:04	2
Bromoform	ND		2.0	0.52	ug/L			09/27/24 07:04	2
Bromomethane	ND		2.0	1.4	ug/L			09/27/24 07:04	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/27/24 07:04	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/27/24 07:04	2
Chloroethane	ND		2.0	0.64	ug/L			09/27/24 07:04	2
Chloroform	ND		2.0	0.68	ug/L			09/27/24 07:04	2
Chloromethane	ND		2.0	0.70	ug/L			09/27/24 07:04	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/27/24 07:04	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/27/24 07:04	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/27/24 07:04	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/27/24 07:04	2
Methylene Chloride	ND		4.0	0.88	ug/L			09/27/24 07:04	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			09/27/24 07:04	2
o-Xylene	ND		2.0	1.5	ug/L			09/27/24 07:04	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/27/24 07:04	2
Toluene	ND		2.0	1.0	ug/L			09/27/24 07:04	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/27/24 07:04	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/27/24 07:04	2
Trichloroethene	ND		2.0	0.92	ug/L			09/27/24 07:04	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/27/24 07:04	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 07:04	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/27/24 07:04	2
4-Bromofluorobenzene (Surr)	93		73 - 120		09/27/24 07:04	2
Toluene-d8 (Surr)	102		80 - 120		09/27/24 07:04	2
Dibromofluoromethane (Surr)	96		75 - 123		09/27/24 07:04	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310C)	12.9		1.0	0.43	mg/L			09/27/24 12:29	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-AGM8SB-0-240925

Lab Sample ID: 480-223723-11

Date Collected: 09/25/24 13:15

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/27/24 07:28	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/27/24 07:28	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/27/24 07:28	2
1,1-Dichloroethane	92		2.0	0.76	ug/L			09/27/24 07:28	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/27/24 07:28	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/27/24 07:28	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/27/24 07:28	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			09/27/24 07:28	2
Acrolein	ND		40	1.8	ug/L			09/27/24 07:28	2
Acrylonitrile	ND		40	1.7	ug/L			09/27/24 07:28	2
Benzene	ND		2.0	0.82	ug/L			09/27/24 07:28	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/27/24 07:28	2
Bromoform	ND		2.0	0.52	ug/L			09/27/24 07:28	2
Bromomethane	ND		2.0	1.4	ug/L			09/27/24 07:28	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/27/24 07:28	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/27/24 07:28	2
Chloroethane	13		2.0	0.64	ug/L			09/27/24 07:28	2
Chloroform	ND		2.0	0.68	ug/L			09/27/24 07:28	2
Chloromethane	ND		2.0	0.70	ug/L			09/27/24 07:28	2
cis-1,2-Dichloroethene	9.3		2.0	1.6	ug/L			09/27/24 07:28	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/27/24 07:28	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/27/24 07:28	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/27/24 07:28	2
Methylene Chloride	ND		4.0	0.88	ug/L			09/27/24 07:28	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			09/27/24 07:28	2
o-Xylene	ND		2.0	1.5	ug/L			09/27/24 07:28	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/27/24 07:28	2
Toluene	ND		2.0	1.0	ug/L			09/27/24 07:28	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/27/24 07:28	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/27/24 07:28	2
Trichloroethene	ND		2.0	0.92	ug/L			09/27/24 07:28	2
Vinyl chloride	17		2.0	1.8	ug/L			09/27/24 07:28	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 07:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/27/24 07:28	2
4-Bromofluorobenzene (Surr)	97		73 - 120		09/27/24 07:28	2
Toluene-d8 (Surr)	103		80 - 120		09/27/24 07:28	2
Dibromofluoromethane (Surr)	96		75 - 123		09/27/24 07:28	2

Client Sample ID: BRNY-GW-MW99J(S)-0-240925

Lab Sample ID: 480-223723-12

Date Collected: 09/25/24 13:30

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 07:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 07:53	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-MW99J(S)-0-240925

Lab Sample ID: 480-223723-12

Date Collected: 09/25/24 13:30

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 07:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 07:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 07:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 07:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 07:53	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 07:53	1
Acrolein	ND		20	0.91	ug/L			09/27/24 07:53	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 07:53	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 07:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 07:53	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 07:53	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 07:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 07:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 07:53	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 07:53	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 07:53	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 07:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 07:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 07:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 07:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 07:53	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 07:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 07:53	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 07:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 07:53	1
Toluene	ND		1.0	0.51	ug/L			09/27/24 07:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 07:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 07:53	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 07:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 07:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Hexanol, 2-ethyl-	3.4	~~TJN~~ JN	ug/L		11.12	104-76-7		09/27/24 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/27/24 07:53	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/27/24 07:53	1
Toluene-d8 (Surr)	104		80 - 120		09/27/24 07:53	1
Dibromofluoromethane (Surr)	98		75 - 123		09/27/24 07:53	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.23		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 17:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				09/26/24 17:25	09/27/24 17:02	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-MW99J(D)-0-240925

Lab Sample ID: 480-223723-13

Date Collected: 09/25/24 16:10

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.63		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 17:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				09/26/24 17:25	09/27/24 17:45	1

Client Sample ID: BRNY-GW-AGM2IB-0-240925

Lab Sample ID: 480-223723-14

Date Collected: 09/25/24 14:35

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.23		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 18:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				09/26/24 17:25	09/27/24 18:06	1

Client Sample ID: BRNY-GW-FB2-240925

Lab Sample ID: 480-223723-15

Date Collected: 09/25/24 15:10

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 08:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 08:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 08:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 08:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 08:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 08:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 08:17	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 08:17	1
Acrolein	ND		20	0.91	ug/L			09/27/24 08:17	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 08:17	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 08:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 08:17	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 08:17	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 08:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 08:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 08:17	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 08:17	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 08:17	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 08:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 08:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 08:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 08:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 08:17	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 08:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 08:17	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 08:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 08:17	1
Toluene	ND		1.0	0.51	ug/L			09/27/24 08:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 08:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 08:17	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-FB2-240925

Lab Sample ID: 480-223723-15

Date Collected: 09/25/24 15:10

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 08:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 08:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.1	~~TJ~~ JN	ug/L		11.12	N/A		09/27/24 08:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/27/24 08:17	1
4-Bromofluorobenzene (Surr)	103		73 - 120		09/27/24 08:17	1
Toluene-d8 (Surr)	107		80 - 120		09/27/24 08:17	1
Dibromofluoromethane (Surr)	98		75 - 123		09/27/24 08:17	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 18:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	09/26/24 17:25	09/27/24 18:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/02/24 13:14	1

Client Sample ID: BRNY-GW-EB2-240925

Lab Sample ID: 480-223723-16

Date Collected: 09/25/24 15:20

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 08:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 08:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 08:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 08:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 08:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 08:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 08:42	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 08:42	1
Acrolein	ND		20	0.91	ug/L			09/27/24 08:42	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 08:42	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 08:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 08:42	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 08:42	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 08:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 08:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 08:42	1
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 08:42	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 08:42	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 08:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 08:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 08:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 08:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 08:42	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-EB2-240925

Lab Sample ID: 480-223723-16

Date Collected: 09/25/24 15:20

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 08:42	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 08:42	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 08:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 08:42	1
Toluene	ND		1.0	0.51	ug/L			09/27/24 08:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 08:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 08:42	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 08:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 08:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 08:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/27/24 08:42	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/27/24 08:42	1
Toluene-d8 (Surr)	104		80 - 120		09/27/24 08:42	1
Dibromofluoromethane (Surr)	96		75 - 123		09/27/24 08:42	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/26/24 17:25	09/27/24 18:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				09/26/24 17:25	09/27/24 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/02/24 13:17	1

Client Sample ID: BRNY-GW-TB1-240925

Lab Sample ID: 480-223723-17

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/27/24 09:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/27/24 09:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/27/24 09:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/27/24 09:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/27/24 09:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/27/24 09:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/27/24 09:07	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			09/27/24 09:07	1
Acrolein	ND		20	0.91	ug/L			09/27/24 09:07	1
Acrylonitrile	ND		20	0.83	ug/L			09/27/24 09:07	1
Benzene	ND		1.0	0.41	ug/L			09/27/24 09:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/27/24 09:07	1
Bromoform	ND		1.0	0.26	ug/L			09/27/24 09:07	1
Bromomethane	ND		1.0	0.69	ug/L			09/27/24 09:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/27/24 09:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/27/24 09:07	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223723-1

Client Sample ID: BRNY-GW-TB1-240925

Lab Sample ID: 480-223723-17

Date Collected: 09/25/24 00:00

Matrix: Water

Date Received: 09/26/24 09:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			09/27/24 09:07	1
Chloroform	ND		1.0	0.34	ug/L			09/27/24 09:07	1
Chloromethane	ND		1.0	0.35	ug/L			09/27/24 09:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/24 09:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/27/24 09:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/27/24 09:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/27/24 09:07	1
Methylene Chloride	ND		2.0	0.44	ug/L			09/27/24 09:07	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			09/27/24 09:07	1
o-Xylene	ND		1.0	0.76	ug/L			09/27/24 09:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/24 09:07	1
Toluene	ND		1.0	0.51	ug/L			09/27/24 09:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/24 09:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/27/24 09:07	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/24 09:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/24 09:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		09/27/24 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		09/27/24 09:07	1
4-Bromofluorobenzene (Surr)	95		73 - 120		09/27/24 09:07	1
Toluene-d8 (Surr)	102		80 - 120		09/27/24 09:07	1
Dibromofluoromethane (Surr)	95		75 - 123		09/27/24 09:07	1

3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compounds (VOCs), Semi Volatile Organic compounds (SVOCs) and Miscellaneous Analyses

SDG # 480-223811-1

Analyses Performed By:
Eurofins Test America
Buffalo, New York

Report # 57842R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-223811-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	Misc.
BRNY-GW-AGM2SB-0-240926	480-223811-1	Water	09/26/2024		X	X	
BRNY-GW-AGM2OB-0-240926	480-223811-2	Water	09/26/2024		X	X	
BRNY-GW-MW99G(S)-0-240926	480-223811-3	Water	09/26/2024		X		
BRNY-GW-MW99G(I)-0-240926	480-223811-4	Water	09/26/2024		X		
BRNY-GW-MW99G(D)-0-240926	480-223811-5	Water	09/26/2024		X		
BRNY-GW-AGM7OB-0-240926	480-223811-6	Water	09/26/2024		X		X
BRNY-GW-AGM7SB-0-240926	480-223811-7	Water	09/26/2024		X		X
BRNY-GW-AGM6SB-0-240926	480-223811-8	Water	09/26/2024		X		X
BRNY-GW-FB3-240926	480-223811-9	Water	09/26/2024		X	X	X
BRNY-GW-MW99C(S)-0-240926	480-223811-10	Water	09/26/2024		X	X	
BRNY-GW-AGM3IB-0-240927	480-223811-11	Water	09/27/2024		X	X	
BRNY-GW-MW99C(I)-0-240927	480-223811-12	Water	09/27/2024		X	X	
BRNY-GW-MW99D(I)-0-240927	480-223811-13	Water	09/27/2024		X		X
BRNY-GW-AGM3SB-0-240927	480-223811-14	Water	09/27/2024		X	X	X
BRNY-GW-AGM4SB-0-240927	480-223811-15	Water	09/27/2024		X		X
BRNY-GW-GEB28BS-0-240927	480-223811-16	Water	09/27/2024			X	
BRNY-GW-FB4-240927	480-223811-17	Water	09/27/2024		X	X	X
BRNY-GW-EB3-240927	480-223811-18	Water	09/27/2024		X	X	X
BRNY-GW-TB2-240927	480-223811-19	Water	09/27/2024		X		

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi Volatile Organic Compounds

Misc. = Miscellaneous analysis including Total Organic Carbon and Total Cyanide

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D SIM. Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C* (SOP #HW-24, October 2006) and *SW-846 Method 8070D* (SOP #HW-35, October 2006); and the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

DATA USABILITY SUMMARY REPORT

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	7 days from collection to analysis (un-preserved) 14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

DATA USABILITY SUMMARY REPORT

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit percent recoveries and RPDs within the laboratory-established acceptance limits.

The LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. Tentatively Identified Compounds (TICs)

TICs were reported if detected in the samples. TICs were evaluated for possible lab contaminants as described in USEPA validation guidelines. TICs identified as possible lab contaminants in the guidelines were qualified as rejected (R). TICs reported in the method blanks, or the field QC blanks were qualified as rejected (R) and removed from the final data set. All accepted TIC results were flagged as JN to indicate that the identification is uncertain, and the concentrations are considered estimated.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Trip blanks		X		X		
D. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		

Data Usability Summary Report

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	
Tentatively identified compounds		X		X	

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock. System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
D. Reconstructed ion chromatograms		X		X		
E. Quantitation Reports		X		X		
F. RT of sample compounds within the established RT windows		X		X		
G. Transcription/calculation errors present		X		X		
H. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Inorganic Analysis Introduction

Analyses were performed according to method USEPA SM 5310C and 9012B. Data were reviewed in accordance with the USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Organic Carbon by SW-846 5310C	Water	28 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2.
Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

The analyte cyanide was detected in the associated QA blanks; however, the associated sample results were greater than BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (B). No other qualification of the sample results was required.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits, and the laboratory flag will be removed.

The MS analysis performed on sample BRNY-GW-FB3-240926 exhibited acceptable recoveries with the exceptions noted below,

Sample ID	Compounds	MS Recovery
BRNY-GW-FB3-240926	Cyanide	<LL but >10%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

The laboratory duplicate analysis was performed on sample BRNY-GW-FB3-240926 for the cyanide analysis. The laboratory duplicate analysis exhibited an acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for the samples from this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 9012B and SM 5310C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R = percent recovery

RPD = relative percent difference

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOC	SVOC	TOC	Cyanide	
480-223811-1	09/26/2024	SW846	BRNY-GW-AGM2SB-0-240926	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-AGM2OB-0-240926	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-MW99G(S)-0-240926	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-MW99G(I)-0-240926	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-MW99G(D)-0-240926	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-AGM7OB-0-240926	Water	No	--	Yes	Yes	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-AGM7SB-0-240926	Water	No	--	--	Yes	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-AGM6SB-0-240926	Water	No	--	--	Yes	2-chloroethyl vinyl ether result rejection
	09/26/2024	SW846	BRNY-GW-FB3-240926	Water	No	Yes	--	No	2-chloroethyl vinyl ether result rejection MS recovery outside control limits
	09/26/2024	SW846	BRNY-GW-MW99C(S)-0-240926	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-AGM3IB-0-240927	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-MW99C(I)-0-240927	Water	No	Yes	--	--	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-MW99D(I)-0-240927	Water	No	--	--	Yes	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-AGM3SB-0-240927	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-AGM4SB-0-240927	Water	No	--	--	Yes	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-GEB28BS-0-240927	Water	--	Yes	--	--	--
	09/27/2024	SW846	BRNY-GW-FB4-240927	Water	No	Yes	--	Yes	2-chloroethyl vinyl ether result rejection
	09/27/2024	SW846	BRNY-GW-EB3-240927	Water	No	No	--	Yes	2-chloroethyl vinyl ether result rejection

DATA USABILITY SUMMARY REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOC	SVOC	TOC	Cyanide	
	09/27/2024	SW846	BRNY-GW-TB2-240927	Water	No	--	--	--	2-chloroethyl vinyl ether result rejection

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 13, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

Client Information		Samplers: Kaitlyn Fleming, Robbie Sullivan		Lab PM: John Beninati		Carrier Tracking No(s):		COC No.								
Client Contact: Ryan Clare		Phone: Kaitlyn's cell - 619.727.1921		E-Mail: john.beninati@et.eurofinsus.com		State of Origin: New York		Page: 1 of 2								
Company: Arcadis of New York, Inc.		PWSID:		Analysis Requested												
Address: 100 Chestnut Street Suite 1020		Due Date Requested:		Field Filtered Sample (Yes or No) 8260C - 8260 (MOD) ASP00 with Tics 9012B - Total Cyanide SM5310D - TOC 8270D_SIM - 1,4 Dioxane Total Number of containers												
City: Rochester		TAT Requested (days): Standard (10)														
State, Zip: NY, 14604		Compliance Project: ☐ Yes ☐ No														
Phone: 1-585-662-4057		PO #: 30208031.00001														
Email: Ryan.Clare@arcadis.com		WO #:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:												
Project Name: 3M-Brockport		Project #: 30208031.00001														
Site: Brockport, NY		SSOW#:														
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)				Total Number of containers				Special Instructions/Note:		
				Preservation Code:												
BRNY-GW- AGM25B - 0 - 240926		9/26/24	0850	G	Water	N	N	X								
BRNY-GW- AGM20B - 0 - 240926		9/26/24	1015	G	Water	N	N	X								
BRNY-GW- MW99G(S) - 0 - 240926		9/26/24	1140	G	Water	N	N	X								
BRNY-GW- MW99G(I) - 0 - 240926		9/26/24	1305	G	Water	N	N	X								
BRNY-GW- MW99G(D) - 0 - 240926		9/26/24	0855	G	Water	N	N	X								
BRNY-GW- AGM70B - 0 - 240926		9/26/24	1150	G	Water	N	N	X	X	X						
BRNY-GW- AGM75B - 0 - 240926		9/26/24	1330	G	Water	N	N	X	X							
BRNY-GW- AGM65B - 0 - 240926		9/26/24	1510	G	Water	N	N	X	X							
BRNY-GW- FB3 - 240926		9/26/24	1430	G	Water	N	N	X	X							
BRNY-GW- MW99C(S) - 0 - 240926		9/26/24	1610	G	Water	N	N	X								
BRNY-GW- AGM31B - 0 - 240927		9/27/24	1100	G	Water	N	N	X								
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological						Return To Client Disposal By Lab Archive For Months										
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:										
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:								
Relinquished by: Kaitlyn Fleming		Date/Time: 9/27/2024 1600		Company: Arcadis		Received by: [Signature]		Date/Time: 9/27/24 1600		Company: EGG						
Relinquished by: [Signature]		Date/Time: 9/27/24 1640		Company: [Signature]		Received by: [Signature]		Date/Time: 9/28/24 0930		Company: TAB						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 29.3.4 IR SC												



480-223811 Chain of Custody

Environment Testing
America

Ver: 01/16/2019

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
^	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM2SB-0-240926

Lab Sample ID: 480-223811-1

Date Collected: 09/26/24 08:50

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/02/24 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/02/24 14:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/02/24 14:43	1
1,1-Dichloroethane	2.5		1.0	0.38	ug/L			10/02/24 14:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/02/24 14:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/02/24 14:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/02/24 14:43	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/02/24 14:43	1
Acrolein	ND		20	0.91	ug/L			10/02/24 14:43	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/02/24 14:43	1
Benzene	ND		1.0	0.41	ug/L			10/02/24 14:43	1
Bromoform	ND		1.0	0.26	ug/L			10/02/24 14:43	1
Bromomethane	ND		1.0	0.69	ug/L			10/02/24 14:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/02/24 14:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/02/24 14:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/02/24 14:43	1
Chloroethane	3.4		1.0	0.32	ug/L			10/02/24 14:43	1
Chloroform	ND		1.0	0.34	ug/L			10/02/24 14:43	1
Chloromethane	ND		1.0	0.35	ug/L			10/02/24 14:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/02/24 14:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/02/24 14:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/02/24 14:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/02/24 14:43	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/02/24 14:43	1
o-Xylene	ND		1.0	0.76	ug/L			10/02/24 14:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/02/24 14:43	1
Toluene	ND		1.0	0.51	ug/L			10/02/24 14:43	1
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L			10/02/24 14:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/02/24 14:43	1
Trichloroethene	ND		1.0	0.46	ug/L			10/02/24 14:43	1
Vinyl chloride	1.4		1.0	0.90	ug/L			10/02/24 14:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/02/24 14:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/02/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					10/02/24 14:43	1
4-Bromofluorobenzene (Surr)	95		73 - 120					10/02/24 14:43	1
Toluene-d8 (Surr)	98		80 - 120					10/02/24 14:43	1
Dibromofluoromethane (Surr)	98		75 - 123					10/02/24 14:43	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	17		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 14:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				09/30/24 17:18	10/01/24 14:54	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM2OB-0-240926

Lab Sample ID: 480-223811-2

Date Collected: 09/26/24 10:15

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.1	J	10	8.2	ug/L			10/01/24 15:49	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 15:49	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 15:49	10
1,1-Dichloroethane	39		10	3.8	ug/L			10/01/24 15:49	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 15:49	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 15:49	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 15:49	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 15:49	10
Acrolein	ND		200	9.1	ug/L			10/01/24 15:49	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 15:49	10
Benzene	ND		10	4.1	ug/L			10/01/24 15:49	10
Bromoform	ND		10	2.6	ug/L			10/01/24 15:49	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 15:49	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 15:49	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 15:49	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 15:49	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 15:49	10
Chloroform	ND		10	3.4	ug/L			10/01/24 15:49	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 15:49	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 15:49	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 15:49	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 15:49	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 15:49	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 15:49	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 15:49	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 15:49	10
Toluene	ND		10	5.1	ug/L			10/01/24 15:49	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 15:49	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 15:49	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 15:49	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 15:49	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 15:49	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 15:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					10/01/24 15:49	10
4-Bromofluorobenzene (Surr)	97		73 - 120					10/01/24 15:49	10
Toluene-d8 (Surr)	99		80 - 120					10/01/24 15:49	10
Dibromofluoromethane (Surr)	99		75 - 123					10/01/24 15:49	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.1		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 15:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				09/30/24 17:18	10/01/24 15:16	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99G(S)-0-240926

Lab Sample ID: 480-223811-3

Date Collected: 09/26/24 11:40

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 16:11	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 16:11	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 16:11	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 16:11	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 16:11	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 16:11	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 16:11	10
2-Chloroethyl vinyl ether	R	ND	50	9.0	ug/L			10/01/24 16:11	10
Acrolein	ND		200	9.1	ug/L			10/01/24 16:11	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 16:11	10
Benzene	ND		10	4.1	ug/L			10/01/24 16:11	10
Bromoform	ND		10	2.6	ug/L			10/01/24 16:11	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 16:11	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 16:11	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 16:11	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 16:11	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 16:11	10
Chloroform	ND		10	3.4	ug/L			10/01/24 16:11	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 16:11	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 16:11	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 16:11	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 16:11	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 16:11	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 16:11	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 16:11	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 16:11	10
Toluene	ND		10	5.1	ug/L			10/01/24 16:11	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 16:11	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 16:11	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 16:11	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 16:11	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 16:11	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 16:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/01/24 16:11	10
4-Bromofluorobenzene (Surr)	95		73 - 120		10/01/24 16:11	10
Toluene-d8 (Surr)	98		80 - 120		10/01/24 16:11	10
Dibromofluoromethane (Surr)	101		75 - 123		10/01/24 16:11	10

Client Sample ID: BRNY-GW-MW99G(I)-0-240926

Lab Sample ID: 480-223811-4

Date Collected: 09/26/24 13:05

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 16:34	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 16:34	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99G(I)-0-240926

Lab Sample ID: 480-223811-4

Date Collected: 09/26/24 13:05

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 16:34	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 16:34	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 16:34	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 16:34	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 16:34	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 16:34	10
Acrolein	ND		200	9.1	ug/L			10/01/24 16:34	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 16:34	10
Benzene	ND		10	4.1	ug/L			10/01/24 16:34	10
Bromoform	ND		10	2.6	ug/L			10/01/24 16:34	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 16:34	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 16:34	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 16:34	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 16:34	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 16:34	10
Chloroform	ND		10	3.4	ug/L			10/01/24 16:34	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 16:34	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 16:34	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 16:34	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 16:34	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 16:34	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 16:34	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 16:34	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 16:34	10
Toluene	ND		10	5.1	ug/L			10/01/24 16:34	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 16:34	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 16:34	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 16:34	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 16:34	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 16:34	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 16:34	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/01/24 16:34	10
4-Bromofluorobenzene (Surr)	101		73 - 120		10/01/24 16:34	10
Toluene-d8 (Surr)	98		80 - 120		10/01/24 16:34	10
Dibromofluoromethane (Surr)	99		75 - 123		10/01/24 16:34	10

Client Sample ID: BRNY-GW-MW99G(D)-0-240926

Lab Sample ID: 480-223811-5

Date Collected: 09/26/24 08:55

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 16:56	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 16:56	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 16:56	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 16:56	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99G(D)-0-240926

Lab Sample ID: 480-223811-5

Date Collected: 09/26/24 08:55

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 16:56	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 16:56	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 16:56	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 16:56	10
Acrolein	ND		200	9.1	ug/L			10/01/24 16:56	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 16:56	10
Benzene	5.0	J	10	4.1	ug/L			10/01/24 16:56	10
Bromoform	ND		10	2.6	ug/L			10/01/24 16:56	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 16:56	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 16:56	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 16:56	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 16:56	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 16:56	10
Chloroform	ND		10	3.4	ug/L			10/01/24 16:56	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 16:56	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 16:56	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 16:56	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 16:56	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 16:56	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 16:56	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 16:56	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 16:56	10
Toluene	ND		10	5.1	ug/L			10/01/24 16:56	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 16:56	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 16:56	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 16:56	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 16:56	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 16:56	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 16:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/01/24 16:56	10
4-Bromofluorobenzene (Surr)	97		73 - 120		10/01/24 16:56	10
Toluene-d8 (Surr)	99		80 - 120		10/01/24 16:56	10
Dibromofluoromethane (Surr)	100		75 - 123		10/01/24 16:56	10

Client Sample ID: BRNY-GW-AGM7OB-0-240926

Lab Sample ID: 480-223811-6

Date Collected: 09/26/24 11:50

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 17:18	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 17:18	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 17:18	10
1,1-Dichloroethane	6.3	J	10	3.8	ug/L			10/01/24 17:18	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 17:18	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 17:18	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM7OB-0-240926

Lab Sample ID: 480-223811-6

Date Collected: 09/26/24 11:50

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 17:18	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 17:18	10
Acrolein	ND		200	9.1	ug/L			10/01/24 17:18	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 17:18	10
Benzene	ND		10	4.1	ug/L			10/01/24 17:18	10
Bromoform	ND		10	2.6	ug/L			10/01/24 17:18	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 17:18	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 17:18	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 17:18	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 17:18	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 17:18	10
Chloroform	ND		10	3.4	ug/L			10/01/24 17:18	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 17:18	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 17:18	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 17:18	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 17:18	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 17:18	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 17:18	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 17:18	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 17:18	10
Toluene	ND		10	5.1	ug/L			10/01/24 17:18	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 17:18	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 17:18	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 17:18	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 17:18	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 17:18	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 17:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		10/01/24 17:18	10
4-Bromofluorobenzene (Surr)	98		73 - 120		10/01/24 17:18	10
Toluene-d8 (Surr)	99		80 - 120		10/01/24 17:18	10
Dibromofluoromethane (Surr)	101		75 - 123		10/01/24 17:18	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11		0.010	0.0041	mg/L			10/01/24 18:51	1
Total Organic Carbon (SM 5310C)	16.2		1.0	0.43	mg/L			10/01/24 14:53	1

Client Sample ID: BRNY-GW-AGM7SB-0-240926

Lab Sample ID: 480-223811-7

Date Collected: 09/26/24 13:30

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 17:40	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 17:40	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 17:40	10
1,1-Dichloroethane	35		10	3.8	ug/L			10/01/24 17:40	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM7SB-0-240926

Lab Sample ID: 480-223811-7

Date Collected: 09/26/24 13:30

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 17:40	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 17:40	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 17:40	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 17:40	10
Acrolein	ND		200	9.1	ug/L			10/01/24 17:40	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 17:40	10
Benzene	ND		10	4.1	ug/L			10/01/24 17:40	10
Bromoform	ND		10	2.6	ug/L			10/01/24 17:40	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 17:40	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 17:40	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 17:40	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 17:40	10
Chloroethane	31		10	3.2	ug/L			10/01/24 17:40	10
Chloroform	ND		10	3.4	ug/L			10/01/24 17:40	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 17:40	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 17:40	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 17:40	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 17:40	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 17:40	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 17:40	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 17:40	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 17:40	10
Toluene	ND		10	5.1	ug/L			10/01/24 17:40	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 17:40	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 17:40	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 17:40	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 17:40	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 17:40	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 17:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/01/24 17:40	10
4-Bromofluorobenzene (Surr)	97		73 - 120		10/01/24 17:40	10
Toluene-d8 (Surr)	96		80 - 120		10/01/24 17:40	10
Dibromofluoromethane (Surr)	99		75 - 123		10/01/24 17:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	3.7		0.10	0.041	mg/L			10/03/24 10:26	10

Client Sample ID: BRNY-GW-AGM6SB-0-240926

Lab Sample ID: 480-223811-8

Date Collected: 09/26/24 15:10

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 18:02	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 18:02	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 18:02	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM6SB-0-240926

Lab Sample ID: 480-223811-8

Date Collected: 09/26/24 15:10

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	6.7	J	10	3.8	ug/L			10/01/24 18:02	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 18:02	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 18:02	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 18:02	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 18:02	10
Acrolein	ND		200	9.1	ug/L			10/01/24 18:02	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 18:02	10
Benzene	ND		10	4.1	ug/L			10/01/24 18:02	10
Bromoform	ND		10	2.6	ug/L			10/01/24 18:02	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 18:02	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 18:02	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 18:02	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 18:02	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 18:02	10
Chloroform	ND		10	3.4	ug/L			10/01/24 18:02	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 18:02	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 18:02	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 18:02	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 18:02	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 18:02	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 18:02	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 18:02	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 18:02	10
Toluene	ND		10	5.1	ug/L			10/01/24 18:02	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 18:02	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 18:02	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 18:02	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 18:02	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 18:02	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 18:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/01/24 18:02	10
4-Bromofluorobenzene (Surr)	96		73 - 120		10/01/24 18:02	10
Toluene-d8 (Surr)	99		80 - 120		10/01/24 18:02	10
Dibromofluoromethane (Surr)	99		75 - 123		10/01/24 18:02	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.38		0.010	0.0041	mg/L			10/01/24 18:58	1

Client Sample ID: BRNY-GW-FB3-240926

Lab Sample ID: 480-223811-9

Date Collected: 09/26/24 14:30

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/01/24 18:24	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/01/24 18:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-FB3-240926

Lab Sample ID: 480-223811-9

Date Collected: 09/26/24 14:30

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/01/24 18:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/01/24 18:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/01/24 18:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/01/24 18:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/01/24 18:24	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/01/24 18:24	1
Acrolein	ND		20	0.91	ug/L			10/01/24 18:24	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/01/24 18:24	1
Benzene	ND		1.0	0.41	ug/L			10/01/24 18:24	1
Bromoform	ND		1.0	0.26	ug/L			10/01/24 18:24	1
Bromomethane	ND		1.0	0.69	ug/L			10/01/24 18:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/01/24 18:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/01/24 18:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/01/24 18:24	1
Chloroethane	ND		1.0	0.32	ug/L			10/01/24 18:24	1
Chloroform	ND		1.0	0.34	ug/L			10/01/24 18:24	1
Chloromethane	ND		1.0	0.35	ug/L			10/01/24 18:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/01/24 18:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/01/24 18:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/01/24 18:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/01/24 18:24	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/01/24 18:24	1
o-Xylene	ND		1.0	0.76	ug/L			10/01/24 18:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/01/24 18:24	1
Toluene	ND		1.0	0.51	ug/L			10/01/24 18:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/01/24 18:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/01/24 18:24	1
Trichloroethene	ND		1.0	0.46	ug/L			10/01/24 18:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/01/24 18:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/01/24 18:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/01/24 18:24	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/01/24 18:24	1
Toluene-d8 (Surr)	97		80 - 120		10/01/24 18:24	1
Dibromofluoromethane (Surr)	102		75 - 123		10/01/24 18:24	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 15:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				09/30/24 17:18	10/01/24 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			10/01/24 19:21	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99C(S)-0-240926

Lab Sample ID: 480-223811-10

Date Collected: 09/26/24 16:10

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 18:46	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 18:46	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 18:46	10
1,1-Dichloroethane	15		10	3.8	ug/L			10/01/24 18:46	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 18:46	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 18:46	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 18:46	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 18:46	10
Acrolein	ND		200	9.1	ug/L			10/01/24 18:46	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 18:46	10
Benzene	ND		10	4.1	ug/L			10/01/24 18:46	10
Bromoform	ND		10	2.6	ug/L			10/01/24 18:46	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 18:46	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 18:46	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 18:46	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 18:46	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 18:46	10
Chloroform	ND		10	3.4	ug/L			10/01/24 18:46	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 18:46	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 18:46	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 18:46	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 18:46	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 18:46	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 18:46	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 18:46	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 18:46	10
Toluene	ND		10	5.1	ug/L			10/01/24 18:46	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 18:46	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 18:46	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 18:46	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 18:46	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 18:46	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 18:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/01/24 18:46	10
4-Bromofluorobenzene (Surr)	95		73 - 120		10/01/24 18:46	10
Toluene-d8 (Surr)	97		80 - 120		10/01/24 18:46	10
Dibromofluoromethane (Surr)	99		75 - 123		10/01/24 18:46	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	22		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 16:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		15 - 110				09/30/24 17:18	10/01/24 16:00	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM3IB-0-240927

Lab Sample ID: 480-223811-11

Date Collected: 09/27/24 11:00

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 19:08	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 19:08	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 19:08	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 19:08	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 19:08	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 19:08	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 19:08	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 19:08	10
Acrolein	ND		200	9.1	ug/L			10/01/24 19:08	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 19:08	10
Benzene	ND		10	4.1	ug/L			10/01/24 19:08	10
Bromoform	ND		10	2.6	ug/L			10/01/24 19:08	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 19:08	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 19:08	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 19:08	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 19:08	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 19:08	10
Chloroform	ND		10	3.4	ug/L			10/01/24 19:08	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 19:08	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 19:08	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 19:08	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 19:08	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 19:08	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 19:08	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 19:08	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 19:08	10
Toluene	ND		10	5.1	ug/L			10/01/24 19:08	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 19:08	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 19:08	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 19:08	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 19:08	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 19:08	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 19:08	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/01/24 19:08	10
4-Bromofluorobenzene (Surr)	97		73 - 120					10/01/24 19:08	10
Toluene-d8 (Surr)	99		80 - 120					10/01/24 19:08	10
Dibromofluoromethane (Surr)	100		75 - 123					10/01/24 19:08	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	150		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 16:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				09/30/24 17:18	10/01/24 16:21	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99C(I)-0-240927

Lab Sample ID: 480-223811-12

Date Collected: 09/27/24 09:55

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 19:30	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 19:30	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 19:30	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 19:30	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 19:30	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 19:30	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 19:30	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 19:30	10
Acrolein	ND		200	9.1	ug/L			10/01/24 19:30	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 19:30	10
Benzene	ND		10	4.1	ug/L			10/01/24 19:30	10
Bromoform	ND		10	2.6	ug/L			10/01/24 19:30	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 19:30	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 19:30	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 19:30	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 19:30	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 19:30	10
Chloroform	ND		10	3.4	ug/L			10/01/24 19:30	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 19:30	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 19:30	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 19:30	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 19:30	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 19:30	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 19:30	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 19:30	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 19:30	10
Toluene	ND		10	5.1	ug/L			10/01/24 19:30	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 19:30	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 19:30	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 19:30	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 19:30	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 19:30	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 19:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/01/24 19:30	10
4-Bromofluorobenzene (Surr)	98		73 - 120		10/01/24 19:30	10
Toluene-d8 (Surr)	99		80 - 120		10/01/24 19:30	10
Dibromofluoromethane (Surr)	101		75 - 123		10/01/24 19:30	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	540		10	5.0	ug/L		09/30/24 17:18	10/02/24 12:57	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		15 - 110				09/30/24 17:18	10/02/24 12:57	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-MW99D(I)-0-240927

Lab Sample ID: 480-223811-13

Date Collected: 09/27/24 11:45

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 19:53	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 19:53	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 19:53	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/01/24 19:53	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 19:53	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 19:53	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 19:53	10
2-Chloroethyl vinyl ether	R	ND	50	9.6	ug/L			10/01/24 19:53	10
Acrolein	ND		200	9.1	ug/L			10/01/24 19:53	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 19:53	10
Benzene	ND		10	4.1	ug/L			10/01/24 19:53	10
Bromoform	ND		10	2.6	ug/L			10/01/24 19:53	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 19:53	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 19:53	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 19:53	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 19:53	10
Chloroethane	ND		10	3.2	ug/L			10/01/24 19:53	10
Chloroform	ND		10	3.4	ug/L			10/01/24 19:53	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 19:53	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 19:53	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 19:53	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 19:53	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 19:53	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 19:53	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 19:53	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 19:53	10
Toluene	ND		10	5.1	ug/L			10/01/24 19:53	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 19:53	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 19:53	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 19:53	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 19:53	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 19:53	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 19:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/01/24 19:53	10
4-Bromofluorobenzene (Surr)	96		73 - 120		10/01/24 19:53	10
Toluene-d8 (Surr)	96		80 - 120		10/01/24 19:53	10
Dibromofluoromethane (Surr)	102		75 - 123		10/01/24 19:53	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.36		0.010	0.0041	mg/L			10/01/24 19:31	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM3SB-0-240927

Lab Sample ID: 480-223811-14

Date Collected: 09/27/24 12:20

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/01/24 20:15	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/01/24 20:15	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/01/24 20:15	10
1,1-Dichloroethane	520		10	3.8	ug/L			10/01/24 20:15	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/01/24 20:15	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/01/24 20:15	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/01/24 20:15	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/01/24 20:15	10
Acrolein	ND		200	9.1	ug/L			10/01/24 20:15	10
Acrylonitrile	ND		50	8.3	ug/L			10/01/24 20:15	10
Benzene	ND		10	4.1	ug/L			10/01/24 20:15	10
Bromoform	ND		10	2.6	ug/L			10/01/24 20:15	10
Bromomethane	ND		10	6.9	ug/L			10/01/24 20:15	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/01/24 20:15	10
Chlorobenzene	ND		10	7.5	ug/L			10/01/24 20:15	10
Dibromochloromethane	ND		10	3.2	ug/L			10/01/24 20:15	10
Chloroethane	140		10	3.2	ug/L			10/01/24 20:15	10
Chloroform	ND		10	3.4	ug/L			10/01/24 20:15	10
Chloromethane	ND		10	3.5	ug/L			10/01/24 20:15	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/01/24 20:15	10
Bromodichloromethane	ND		10	3.9	ug/L			10/01/24 20:15	10
Ethylbenzene	ND		10	7.4	ug/L			10/01/24 20:15	10
Methylene Chloride	ND		10	4.4	ug/L			10/01/24 20:15	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/01/24 20:15	10
o-Xylene	ND		10	7.6	ug/L			10/01/24 20:15	10
Tetrachloroethene	ND		10	3.6	ug/L			10/01/24 20:15	10
Toluene	ND		10	5.1	ug/L			10/01/24 20:15	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/01/24 20:15	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/01/24 20:15	10
Trichloroethene	ND		10	4.6	ug/L			10/01/24 20:15	10
Vinyl chloride	ND		10	9.0	ug/L			10/01/24 20:15	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/01/24 20:15	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 20:15	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					10/01/24 20:15	10
4-Bromofluorobenzene (Surr)	97		73 - 120					10/01/24 20:15	10
Toluene-d8 (Surr)	97		80 - 120					10/01/24 20:15	10
Dibromofluoromethane (Surr)	101		75 - 123					10/01/24 20:15	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	590		10	5.0	ug/L		09/30/24 17:18	10/02/24 13:19	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				09/30/24 17:18	10/02/24 13:19	50

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM3SB-0-240927

Lab Sample ID: 480-223811-14

Date Collected: 09/27/24 12:20

Matrix: Water

Date Received: 09/28/24 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.54	R	0.020	0.0082	mg/L			10/02/24 13:57	2

Client Sample ID: BRNY-GW-AGM4SB-0-240927

Lab Sample ID: 480-223811-15

Date Collected: 09/27/24 14:15

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/01/24 20:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/01/24 20:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/01/24 20:37	1
1,1-Dichloroethane	20		1.0	0.38	ug/L			10/01/24 20:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/01/24 20:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/01/24 20:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/01/24 20:37	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/01/24 20:37	1
Acrolein	ND		20	0.91	ug/L			10/01/24 20:37	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/01/24 20:37	1
Benzene	ND		1.0	0.41	ug/L			10/01/24 20:37	1
Bromoform	ND		1.0	0.26	ug/L			10/01/24 20:37	1
Bromomethane	ND		1.0	0.69	ug/L			10/01/24 20:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/01/24 20:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/01/24 20:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/01/24 20:37	1
Chloroethane	ND		1.0	0.32	ug/L			10/01/24 20:37	1
Chloroform	ND		1.0	0.34	ug/L			10/01/24 20:37	1
Chloromethane	ND		1.0	0.35	ug/L			10/01/24 20:37	1
cis-1,2-Dichloroethene	0.83	J	1.0	0.81	ug/L			10/01/24 20:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/01/24 20:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/01/24 20:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/01/24 20:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/01/24 20:37	1
o-Xylene	ND		1.0	0.76	ug/L			10/01/24 20:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/01/24 20:37	1
Toluene	ND		1.0	0.51	ug/L			10/01/24 20:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/01/24 20:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/01/24 20:37	1
Trichloroethene	ND		1.0	0.46	ug/L			10/01/24 20:37	1
Vinyl chloride	2.7		1.0	0.90	ug/L			10/01/24 20:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/01/24 20:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/01/24 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/01/24 20:37	1
4-Bromofluorobenzene (Surr)	95		73 - 120		10/01/24 20:37	1
Toluene-d8 (Surr)	97		80 - 120		10/01/24 20:37	1
Dibromofluoromethane (Surr)	103		75 - 123		10/01/24 20:37	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-AGM4SB-0-240927

Lab Sample ID: 480-223811-15

Date Collected: 09/27/24 14:15

Matrix: Water

Date Received: 09/28/24 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.90	B	0.020	0.0082	mg/L			10/02/24 14:00	2

Client Sample ID: BRNY-GW-GEB28BS-0-240927

Lab Sample ID: 480-223811-16

Date Collected: 09/27/24 14:30

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.39		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 17:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110				09/30/24 17:18	10/01/24 17:24	1

Client Sample ID: BRNY-GW-FB4-240927

Lab Sample ID: 480-223811-17

Date Collected: 09/27/24 15:00

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/01/24 20:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/01/24 20:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/01/24 20:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/01/24 20:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/01/24 20:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/01/24 20:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/01/24 20:59	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/01/24 20:59	1
Acrolein	ND		20	0.91	ug/L			10/01/24 20:59	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/01/24 20:59	1
Benzene	ND		1.0	0.41	ug/L			10/01/24 20:59	1
Bromoform	ND		1.0	0.26	ug/L			10/01/24 20:59	1
Bromomethane	ND		1.0	0.69	ug/L			10/01/24 20:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/01/24 20:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/01/24 20:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/01/24 20:59	1
Chloroethane	ND		1.0	0.32	ug/L			10/01/24 20:59	1
Chloroform	ND		1.0	0.34	ug/L			10/01/24 20:59	1
Chloromethane	ND		1.0	0.35	ug/L			10/01/24 20:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/01/24 20:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/01/24 20:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/01/24 20:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/01/24 20:59	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/01/24 20:59	1
o-Xylene	ND		1.0	0.76	ug/L			10/01/24 20:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/01/24 20:59	1
Toluene	ND		1.0	0.51	ug/L			10/01/24 20:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/01/24 20:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/01/24 20:59	1
Trichloroethene	ND		1.0	0.46	ug/L			10/01/24 20:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/01/24 20:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/01/24 20:59	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-FB4-240927

Lab Sample ID: 480-223811-17

Date Collected: 09/27/24 15:00

Matrix: Water

Date Received: 09/28/24 09:30

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>		<i>10/01/24 20:59</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>101</i>		<i>77 - 120</i>			<i>10/01/24 20:59</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>93</i>		<i>73 - 120</i>			<i>10/01/24 20:59</i>	<i>1</i>
<i>Toluene-d8 (Surr)</i>	<i>97</i>		<i>80 - 120</i>			<i>10/01/24 20:59</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>101</i>		<i>75 - 123</i>			<i>10/01/24 20:59</i>	<i>1</i>

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 17:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				09/30/24 17:18	10/01/24 17:46	1

General Chemistry

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Cyanide, Total (SW846 9012B)</i>	<i>0.052</i>		<i>0.010</i>	<i>0.0041</i>	<i>mg/L</i>			<i>10/01/24 19:41</i>	<i>1</i>

Client Sample ID: BRNY-GW-EB3-240927

Lab Sample ID: 480-223811-18

Date Collected: 09/27/24 15:20

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,1,1-Trichloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.82</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,1,2,2-Tetrachloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.21</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,1,2-Trichloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.23</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,1-Dichloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.38</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,1-Dichloroethene</i>	<i>ND</i>		<i>1.0</i>	<i>0.29</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,2-Dichloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.21</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>1,2-Dichloropropane</i>	<i>ND</i>		<i>1.0</i>	<i>0.72</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>2-Chloroethyl vinyl ether</i>	<i>R ND</i>		<i>5.0</i>	<i>0.96</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Acrolein</i>	<i>ND</i>		<i>20</i>	<i>0.91</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Acrylonitrile</i>	<i>ND</i>		<i>5.0</i>	<i>0.83</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Benzene</i>	<i>ND</i>		<i>1.0</i>	<i>0.41</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Bromoform</i>	<i>ND</i>		<i>1.0</i>	<i>0.26</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Bromomethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.69</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Carbon tetrachloride</i>	<i>ND</i>		<i>1.0</i>	<i>0.27</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Chlorobenzene</i>	<i>ND</i>		<i>1.0</i>	<i>0.75</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Dibromochloromethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.32</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Chloroethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.32</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Chloroform</i>	<i>ND</i>		<i>1.0</i>	<i>0.34</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Chloromethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.35</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>cis-1,2-Dichloroethene</i>	<i>ND</i>		<i>1.0</i>	<i>0.81</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Bromodichloromethane</i>	<i>ND</i>		<i>1.0</i>	<i>0.39</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Ethylbenzene</i>	<i>ND</i>		<i>1.0</i>	<i>0.74</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Methylene Chloride</i>	<i>ND</i>		<i>1.0</i>	<i>0.44</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>m-Xylene & p-Xylene</i>	<i>ND</i>		<i>2.0</i>	<i>0.66</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>o-Xylene</i>	<i>ND</i>		<i>1.0</i>	<i>0.76</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Tetrachloroethene</i>	<i>ND</i>		<i>1.0</i>	<i>0.36</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>
<i>Toluene</i>	<i>ND</i>		<i>1.0</i>	<i>0.51</i>	<i>ug/L</i>			<i>10/01/24 17:47</i>	<i>1</i>

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-EB3-240927

Lab Sample ID: 480-223811-18

Date Collected: 09/27/24 15:20

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/01/24 17:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/01/24 17:47	1
Trichloroethene	ND		1.0	0.46	ug/L			10/01/24 17:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/01/24 17:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/01/24 17:47	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	5.6	~~LN~~ JN	ug/L		1.54	N/A		10/01/24 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/01/24 17:47	1
4-Bromofluorobenzene (Surr)	111		73 - 120		10/01/24 17:47	1
Toluene-d8 (Surr)	107		80 - 120		10/01/24 17:47	1
Dibromofluoromethane (Surr)	104		75 - 123		10/01/24 17:47	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/30/24 17:18	10/01/24 18:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	09/30/24 17:18	10/01/24 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/10/24 18:11	1

Client Sample ID: BRNY-GW-TB2-240927

Lab Sample ID: 480-223811-19

Date Collected: 09/27/24 00:00

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/01/24 18:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/01/24 18:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/01/24 18:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/01/24 18:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/01/24 18:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/01/24 18:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/01/24 18:11	1
2-Chloroethyl vinyl ether	~~R ND~~		~~5.0~~	~~0.96~~	~~ug/L~~			~~10/01/24 18:11~~	~~1~~
Acrolein	ND		20	0.91	ug/L			10/01/24 18:11	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/01/24 18:11	1
Benzene	ND		1.0	0.41	ug/L			10/01/24 18:11	1
Bromoform	ND		1.0	0.26	ug/L			10/01/24 18:11	1
Bromomethane	ND		1.0	0.69	ug/L			10/01/24 18:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/01/24 18:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/01/24 18:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/01/24 18:11	1
Chloroethane	ND		1.0	0.32	ug/L			10/01/24 18:11	1
Chloroform	ND		1.0	0.34	ug/L			10/01/24 18:11	1
Chloromethane	ND		1.0	0.35	ug/L			10/01/24 18:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/01/24 18:11	1

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223811-1

Client Sample ID: BRNY-GW-TB2-240927

Lab Sample ID: 480-223811-19

Date Collected: 09/27/24 00:00

Matrix: Water

Date Received: 09/28/24 09:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			10/01/24 18:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/01/24 18:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/01/24 18:11	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/01/24 18:11	1
o-Xylene	ND		1.0	0.76	ug/L			10/01/24 18:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/01/24 18:11	1
Toluene	ND		1.0	0.51	ug/L			10/01/24 18:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/01/24 18:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/01/24 18:11	1
Trichloroethene	ND		1.0	0.46	ug/L			10/01/24 18:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/01/24 18:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/01/24 18:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	18	~~1~~ JN	ug/L		1.55	N/A		10/01/24 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/01/24 18:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/01/24 18:11	1
Toluene-d8 (Surr)	103		80 - 120		10/01/24 18:11	1
Dibromofluoromethane (Surr)	103		75 - 123		10/01/24 18:11	1

3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compounds (VOCs) and Semi Volatile Organic compounds (SVOCs) Analyses

SDG # 480-223871-1

Analyses Performed By:
Eurofins Test America
Buffalo, New York

Report # 57843R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-223871-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	SVOC
BRNY-GW-AGM4OB-0-240930	480-223871-1	Water	09/30/2024		X	X
BRNY-GW-AGM4IB-0-240930	480-223871-2	Water	09/30/2024			X
BRNY-GW-MW99I(S)-0-240930	480-223871-3	Water	09/30/2024		X	X
BRNY-GW-MW99I(I)-0-240930	480-223871-4	Water	09/30/2024		X	X
BRNY-GW-MW99I(D)-0-240930	480-223871-5	Water	09/30/2024			X
BRNY-GW-GEB30BI-0-240930	480-223871-6	Water	09/30/2024			X
BRNY-GW-GEB30BS-0-240930	480-223871-7	Water	09/30/2024			X
BRNY-GW-MW99H(I)-0-240930	480-223871-8	Water	09/30/2024		X	X
BRNY-GW-FB5-240930	480-223871-9	Water	09/30/2024		X	X
BRNY-GW-MW99H(D)-0-241001	480-223871-10	Water	10/01/2024		X	X
BRNY-GW-DB2-240930	480-223871-11	Water	09/30/2024	BRNY-GW-MW99H(I)-0-240930	X	X
BRNY-GW-MW99F(S)-0-241001	480-223871-12	Water	10/01/2024			X
BRNY-GW-MW99F(I)-0-241001	480-223871-13	Water	10/01/2024		X	X
BRNY-GW-MW99F(D)-0-241001	480-223871-14	Water	10/01/2024		X	X
BRNY-GW-GEB28BI-0-241001	480-223871-15	Water	10/01/2024			X
BRNY-GW-GEB28BD-0-241001	480-223871-16	Water	10/01/2024			X
BRNY-GW-FB6-241001	480-223871-17	Water	10/01/2024		X	X
BRNY-GW-TB3-241001	480-223871-18	Water	10/01/2024		X	

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi Volatile Organic Compounds

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D SIM. Data were reviewed in accordance with the USEPA Region II validation guidelines Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C (SOP #HW-24, October 2006) and SW-846 Method 8070D (SOP #HW-35, October 2006); and the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	7 days from collection to analysis (un-preserved) 14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

DATA USABILITY SUMMARY REPORT

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the ICV and CCV standards were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample BRNY-GW-MW99H(I)-0-240930 exhibited recoveries and RPDs within the control limit with the exceptions noted below.

Sample ID	Compound	MS Recovery	MSD Recovery
BRNY-GW-MW99J(I)-0-240925	2-Chloroethyl vinyl ether	<LL but >10%	<LL but >10%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action

DATA USABILITY SUMMARY REPORT

Control Limit	Sample Result	Qualification
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
BRNY-GW-MW99H(I)-0-240930 / BRNY-GW-DB2-240930	All Compounds	U	U	AC

Notes:

U = non detect

AC = acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

10. Tentatively Identified Compounds (TICs)

TICs were reported if detected in the samples. TICs were evaluated for possible lab contaminants as described in USEPA validation guidelines. TICs identified as possible lab contaminants in the guidelines were qualified as rejected (R). TICs reported in the method blanks, or the field QC blanks were qualified as rejected (R) and removed from the final data set. All accepted TIC results were flagged as JN to indicate that the identification is uncertain, and the concentrations are considered estimated.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X	X			
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Trip blanks		X		X		
D. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)		X	X			
Matrix Spike Duplicate (MSD)		X	X			
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		

Data Usability Summary Report

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	
Tentatively identified compounds		X		X	

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock. System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample BRNY-GW-MW99H(I)MSD-0-240930 exhibited recoveries and RPDs within the control limit.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
BRNY-GW-MW99H(I)-0-240930 / BRNY-GW-DB2-240930	1,4-Dioxane	6.3	6.4	1.6%

Notes:

AC = acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate (MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
D. Reconstructed ion chromatograms		X		X		
E. Quantitation Reports		X		X		
F. RT of sample compounds within the established RT windows		X		X		
G. Transcription/calculation errors present		X		X		
H. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹		Noncompliance
					VOC	SVOC	
480-223871-1	09/30/2024	SW846	BRNY-GW-AGM4OB-0-240930	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	09/30/2024	SW846	BRNY-GW-AGM4IB-0-240930	Water	--	Yes	
	09/30/2024	SW846	BRNY-GW-MW99I(S)-0-240930	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	09/30/2024	SW846	BRNY-GW-MW99I(I)-0-240930	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	09/30/2024	SW846	BRNY-GW-MW99I(D)-0-240930	Water	--	Yes	--
	09/30/2024	SW846	BRNY-GW-GEB30BI-0-240930	Water	--	Yes	--
	09/30/2024	SW846	BRNY-GW-GEB30BS-0-240930	Water	--	Yes	--
	09/30/2024	SW846	BRNY-GW-MW99H(I)-0-240930	Water	No	Yes	MS/MSD recoveries are outside control limits and calibration exceedance 2-chloroethyl vinyl ether result rejection
	09/30/2024	SW846	BRNY-GW-FB5-240930	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	10/01/2024	SW846	BRNY-GW-MW99H(D)-0-241001	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	09/30/2024	SW846	BRNY-GW-DB2-240930	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	10/01/2024	SW846	BRNY-GW-MW99F(S)-0-241001	Water	--	Yes	--
	10/01/2024	SW846	BRNY-GW-MW99F(I)-0-241001	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	10/01/2024	SW846	BRNY-GW-MW99F(D)-0-241001	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	10/01/2024	SW846	BRNY-GW-GEB28BI-0-241001	Water	--	Yes	--
	10/01/2024	SW846	BRNY-GW-GEB28BD-0-241001	Water	--	Yes	--
	10/01/2024	SW846	BRNY-GW-FB6-241001	Water	No	Yes	2-chloroethyl vinyl ether result rejection
	10/01/2024	SW846	BRNY-GW-TB3-241001	Water	No	--	2-chloroethyl vinyl ether result rejection

Note:

DATA USABILITY SUMMARY REPORT

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 14, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

**Environment Testing
America**

Ver: 01/16/2019

10/25/2024
1:09:00 PM

Chain of Custody Record

Client Information		Samplers Kaitlyn Fleming, Robbie Sullivan		Lab PM: John Beninati		Carrier Tracking No(s)		COC No.					
Client Contact: Ryan Clare		Phone Kaitlyn's cell - 619.727.1921		E-Mail john.beninati@et.eurofinsus.com		State of Origin New York		Page: _____ of _____					
Company Arcadis of New York, Inc.		PWSID:		Analysis Requested						Job #			
Address: 100 Chestnut Street Suite 1020		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260C - 8260 (MOD) ASP00 with Tics 9012B - Total Cyanide SM5310D - TOC 8270D_SIM - 1,4 Dioxane Total Number of containers						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)			
City: Rochester		TAT Requested (days): Standard (10)											
State, Zip NY, 14604		Compliance Project: ☐ Yes ☐ No											
Phone: 1-585-662-4057		PO # 30208031.00001											
Email: Ryan.Clare@arcadis.com		WO #											
Project Name: 3M-Brockport		Project # 30208031.00001											
Site: Brockport, NY		SSOW#:											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:	
BRNY-GW- MW99H(I) MSMSD-240930		9/30/24		1540		G		Water		N		ms/msd	
BRNY-GW- MW99F(S) - 0 - 241001		10/1/24		1245		G		Water		N			
BRNY-GW- MW99F(I) - 0 - 241001		10/1/24		1420		G		Water		N			
BRNY-GW- MW99F(D) - 0 - 241001		10/1/24		0935		G		Water		N			
BRNY-GW- GEB28BI - 0 - 241001		10/1/24		1440		G		Water		N			
BRNY-GW- GEB28BD - 0 - 241001		10/1/24		1330		G		Water		N			
BRNY-GW- FBG - 241001		10/1/24		1510		G		Water		N			
BRNY-GW- TB3 - 241001		—		—		G		Water		N			
BRNY-GW-						G		Water		N			
BRNY-GW-						G		Water		N			
BRNY-GW-						G		Water		N			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological										Return To Client Disposal By Lab Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:			
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: 				Date/Time: 10/1/24/1655		Company: Arcadis		Received by: LC		Date/Time: 10/1/24 16:55		Company:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks:					

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-AGM4OB-0-240930

Lab Sample ID: 480-223871-1

Date Collected: 09/30/24 10:40

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/03/24 17:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/03/24 17:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/03/24 17:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/03/24 17:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/03/24 17:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/24 17:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/03/24 17:16	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/03/24 17:16	1
Acrolein	ND		20	0.91	ug/L			10/03/24 17:16	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/03/24 17:16	1
Benzene	ND		1.0	0.41	ug/L			10/03/24 17:16	1
Bromoform	ND		1.0	0.26	ug/L			10/03/24 17:16	1
Bromomethane	ND		1.0	0.69	ug/L			10/03/24 17:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/03/24 17:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/03/24 17:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/03/24 17:16	1
Chloroethane	ND		1.0	0.32	ug/L			10/03/24 17:16	1
Chloroform	ND		1.0	0.34	ug/L			10/03/24 17:16	1
Chloromethane	ND		1.0	0.35	ug/L			10/03/24 17:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/03/24 17:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/03/24 17:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/03/24 17:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/03/24 17:16	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/03/24 17:16	1
o-Xylene	ND		1.0	0.76	ug/L			10/03/24 17:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/03/24 17:16	1
Toluene	ND		1.0	0.51	ug/L			10/03/24 17:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/03/24 17:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/03/24 17:16	1
Trichloroethene	ND		1.0	0.46	ug/L			10/03/24 17:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/03/24 17:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/03/24 17:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/03/24 17:16	1
4-Bromofluorobenzene (Surr)	96		73 - 120		10/03/24 17:16	1
Toluene-d8 (Surr)	99		80 - 120		10/03/24 17:16	1
Dibromofluoromethane (Surr)	101		75 - 123		10/03/24 17:16	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.68		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 14:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				10/02/24 17:21	10/03/24 14:07	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-AGM4IB-0-240930

Lab Sample ID: 480-223871-2

Date Collected: 09/30/24 12:30

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.23	0.11	ug/L		10/02/24 17:21	10/03/24 14:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		15 - 110				10/02/24 17:21	10/03/24 14:28	1

Client Sample ID: BRNY-GW-MW99I(S)-0-240930

Lab Sample ID: 480-223871-3

Date Collected: 09/30/24 10:10

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/03/24 17:38	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/03/24 17:38	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/03/24 17:38	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/03/24 17:38	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/03/24 17:38	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/03/24 17:38	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/03/24 17:38	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/03/24 17:38	10
Acrolein	ND		200	9.1	ug/L			10/03/24 17:38	10
Acrylonitrile	ND		50	8.3	ug/L			10/03/24 17:38	10
Benzene	ND		10	4.1	ug/L			10/03/24 17:38	10
Bromoform	ND		10	2.6	ug/L			10/03/24 17:38	10
Bromomethane	ND		10	6.9	ug/L			10/03/24 17:38	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/03/24 17:38	10
Chlorobenzene	ND		10	7.5	ug/L			10/03/24 17:38	10
Dibromochloromethane	ND		10	3.2	ug/L			10/03/24 17:38	10
Chloroethane	ND		10	3.2	ug/L			10/03/24 17:38	10
Chloroform	ND		10	3.4	ug/L			10/03/24 17:38	10
Chloromethane	ND		10	3.5	ug/L			10/03/24 17:38	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/03/24 17:38	10
Bromodichloromethane	ND		10	3.9	ug/L			10/03/24 17:38	10
Ethylbenzene	ND		10	7.4	ug/L			10/03/24 17:38	10
Methylene Chloride	ND		10	4.4	ug/L			10/03/24 17:38	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/03/24 17:38	10
o-Xylene	ND		10	7.6	ug/L			10/03/24 17:38	10
Tetrachloroethene	ND		10	3.6	ug/L			10/03/24 17:38	10
Toluene	ND		10	5.1	ug/L			10/03/24 17:38	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/03/24 17:38	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/03/24 17:38	10
Trichloroethene	ND		10	4.6	ug/L			10/03/24 17:38	10
Vinyl chloride	ND		10	9.0	ug/L			10/03/24 17:38	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/03/24 17:38	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 17:38	10

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/03/24 17:38	10
4-Bromofluorobenzene (Surr)	95		73 - 120					10/03/24 17:38	10
Toluene-d8 (Surr)	95		80 - 120					10/03/24 17:38	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99I(S)-0-240930

Lab Sample ID: 480-223871-3

Date Collected: 09/30/24 10:10

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		75 - 123		10/03/24 17:38	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	38		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 14:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				10/02/24 17:21	10/03/24 14:50	1

Client Sample ID: BRNY-GW-MW99I(I)-0-240930

Lab Sample ID: 480-223871-4

Date Collected: 09/30/24 11:45

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/03/24 18:00	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/03/24 18:00	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/03/24 18:00	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/03/24 18:00	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/03/24 18:00	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/03/24 18:00	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/03/24 18:00	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/03/24 18:00	10
Acrolein	ND		200	9.1	ug/L			10/03/24 18:00	10
Acrylonitrile	ND		50	8.3	ug/L			10/03/24 18:00	10
Benzene	ND		10	4.1	ug/L			10/03/24 18:00	10
Bromoform	ND		10	2.6	ug/L			10/03/24 18:00	10
Bromomethane	ND		10	6.9	ug/L			10/03/24 18:00	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/03/24 18:00	10
Chlorobenzene	ND		10	7.5	ug/L			10/03/24 18:00	10
Dibromochloromethane	ND		10	3.2	ug/L			10/03/24 18:00	10
Chloroethane	ND		10	3.2	ug/L			10/03/24 18:00	10
Chloroform	ND		10	3.4	ug/L			10/03/24 18:00	10
Chloromethane	ND		10	3.5	ug/L			10/03/24 18:00	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/03/24 18:00	10
Bromodichloromethane	ND		10	3.9	ug/L			10/03/24 18:00	10
Ethylbenzene	ND		10	7.4	ug/L			10/03/24 18:00	10
Methylene Chloride	ND		10	4.4	ug/L			10/03/24 18:00	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/03/24 18:00	10
o-Xylene	ND		10	7.6	ug/L			10/03/24 18:00	10
Tetrachloroethene	ND		10	3.6	ug/L			10/03/24 18:00	10
Toluene	ND		10	5.1	ug/L			10/03/24 18:00	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/03/24 18:00	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/03/24 18:00	10
Trichloroethene	ND		10	4.6	ug/L			10/03/24 18:00	10
Vinyl chloride	ND		10	9.0	ug/L			10/03/24 18:00	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/03/24 18:00	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 18:00	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99I(I)-0-240930

Lab Sample ID: 480-223871-4

Date Collected: 09/30/24 11:45

Matrix: Water

Date Received: 10/02/24 16:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/03/24 18:00	10
4-Bromofluorobenzene (Surr)	97		73 - 120		10/03/24 18:00	10
Toluene-d8 (Surr)	98		80 - 120		10/03/24 18:00	10
Dibromofluoromethane (Surr)	101		75 - 123		10/03/24 18:00	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	48		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 15:12	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	35		15 - 110	10/02/24 17:21	10/03/24 15:12	1			

Client Sample ID: BRNY-GW-MW99I(D)-0-240930

Lab Sample ID: 480-223871-5

Date Collected: 09/30/24 14:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.10	ug/L		10/02/24 17:21	10/03/24 15:33	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	36		15 - 110	10/02/24 17:21	10/03/24 15:33	1			

Client Sample ID: BRNY-GW-GEB30BI-0-240930

Lab Sample ID: 480-223871-6

Date Collected: 09/30/24 14:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.36		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 15:54	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	35		15 - 110	10/02/24 17:21	10/03/24 15:54	1			

Client Sample ID: BRNY-GW-GEB30BS-0-240930

Lab Sample ID: 480-223871-7

Date Collected: 09/30/24 15:25

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 16:15	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	38		15 - 110	10/02/24 17:21	10/03/24 16:15	1			

Client Sample ID: BRNY-GW-MW99H(I)-0-240930

Lab Sample ID: 480-223871-8

Date Collected: 09/30/24 15:40

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/03/24 13:45	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/03/24 13:45	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/03/24 13:45	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/03/24 13:45	10

Eurofins Buffalo

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99H(I)-0-240930

Lab Sample ID: 480-223871-8

Date Collected: 09/30/24 15:40

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		10	2.9	ug/L			10/03/24 13:45	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/03/24 13:45	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/03/24 13:45	10
2-Chloroethyl vinyl ether	R ND	F1	50	9.0	ug/L			10/03/24 13:45	10
Acrolein	ND		200	9.1	ug/L			10/03/24 13:45	10
Acrylonitrile	ND		50	8.3	ug/L			10/03/24 13:45	10
Benzene	ND		10	4.1	ug/L			10/03/24 13:45	10
Bromoform	ND		10	2.6	ug/L			10/03/24 13:45	10
Bromomethane	ND		10	6.9	ug/L			10/03/24 13:45	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/03/24 13:45	10
Chlorobenzene	ND		10	7.5	ug/L			10/03/24 13:45	10
Dibromochloromethane	ND		10	3.2	ug/L			10/03/24 13:45	10
Chloroethane	ND		10	3.2	ug/L			10/03/24 13:45	10
Chloroform	ND		10	3.4	ug/L			10/03/24 13:45	10
Chloromethane	ND		10	3.5	ug/L			10/03/24 13:45	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/03/24 13:45	10
Bromodichloromethane	ND		10	3.9	ug/L			10/03/24 13:45	10
Ethylbenzene	ND		10	7.4	ug/L			10/03/24 13:45	10
Methylene Chloride	ND		10	4.4	ug/L			10/03/24 13:45	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/03/24 13:45	10
o-Xylene	ND		10	7.6	ug/L			10/03/24 13:45	10
Tetrachloroethene	ND		10	3.6	ug/L			10/03/24 13:45	10
Toluene	ND		10	5.1	ug/L			10/03/24 13:45	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/03/24 13:45	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/03/24 13:45	10
Trichloroethene	ND		10	4.6	ug/L			10/03/24 13:45	10
Vinyl chloride	ND		10	9.0	ug/L			10/03/24 13:45	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/03/24 13:45	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 13:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/03/24 13:45	10
4-Bromofluorobenzene (Surr)	102		73 - 120		10/03/24 13:45	10
Toluene-d8 (Surr)	99		80 - 120		10/03/24 13:45	10
Dibromofluoromethane (Surr)	105		75 - 123		10/03/24 13:45	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.3		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 13:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110				10/02/24 17:21	10/03/24 13:46	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-FB5-240930

Lab Sample ID: 480-223871-9

Date Collected: 09/30/24 16:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/03/24 18:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/03/24 18:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/03/24 18:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/03/24 18:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/03/24 18:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/24 18:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/03/24 18:22	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/03/24 18:22	1
Acrolein	ND		20	0.91	ug/L			10/03/24 18:22	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/03/24 18:22	1
Benzene	ND		1.0	0.41	ug/L			10/03/24 18:22	1
Bromoform	ND		1.0	0.26	ug/L			10/03/24 18:22	1
Bromomethane	ND		1.0	0.69	ug/L			10/03/24 18:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/03/24 18:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/03/24 18:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/03/24 18:22	1
Chloroethane	ND		1.0	0.32	ug/L			10/03/24 18:22	1
Chloroform	ND		1.0	0.34	ug/L			10/03/24 18:22	1
Chloromethane	ND		1.0	0.35	ug/L			10/03/24 18:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/03/24 18:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/03/24 18:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/03/24 18:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/03/24 18:22	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/03/24 18:22	1
o-Xylene	ND		1.0	0.76	ug/L			10/03/24 18:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/03/24 18:22	1
Toluene	ND		1.0	0.51	ug/L			10/03/24 18:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/03/24 18:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/03/24 18:22	1
Trichloroethene	ND		1.0	0.46	ug/L			10/03/24 18:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/03/24 18:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/03/24 18:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					10/03/24 18:22	1
4-Bromofluorobenzene (Surr)	97		73 - 120					10/03/24 18:22	1
Toluene-d8 (Surr)	99		80 - 120					10/03/24 18:22	1
Dibromofluoromethane (Surr)	103		75 - 123					10/03/24 18:22	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 16:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				10/02/24 17:21	10/03/24 16:36	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99H(D)-0-241001

Lab Sample ID: 480-223871-10

Date Collected: 10/01/24 09:25

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			10/03/24 18:44	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/03/24 18:44	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/03/24 18:44	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			10/03/24 18:44	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			10/03/24 18:44	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/03/24 18:44	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/03/24 18:44	2
2-Chloroethyl vinyl ether	R ND		10	1.9	ug/L			10/03/24 18:44	2
Acrolein	ND		40	1.8	ug/L			10/03/24 18:44	2
Acrylonitrile	ND		10	1.7	ug/L			10/03/24 18:44	2
Benzene	ND		2.0	0.82	ug/L			10/03/24 18:44	2
Bromoform	ND		2.0	0.52	ug/L			10/03/24 18:44	2
Bromomethane	ND		2.0	1.4	ug/L			10/03/24 18:44	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/03/24 18:44	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/03/24 18:44	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/03/24 18:44	2
Chloroethane	ND		2.0	0.64	ug/L			10/03/24 18:44	2
Chloroform	ND		2.0	0.68	ug/L			10/03/24 18:44	2
Chloromethane	ND		2.0	0.70	ug/L			10/03/24 18:44	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/03/24 18:44	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/03/24 18:44	2
Ethylbenzene	ND		2.0	1.5	ug/L			10/03/24 18:44	2
Methylene Chloride	ND		2.0	0.88	ug/L			10/03/24 18:44	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			10/03/24 18:44	2
o-Xylene	ND		2.0	1.5	ug/L			10/03/24 18:44	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/03/24 18:44	2
Toluene	ND		2.0	1.0	ug/L			10/03/24 18:44	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/03/24 18:44	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/03/24 18:44	2
Trichloroethene	ND		2.0	0.92	ug/L			10/03/24 18:44	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/03/24 18:44	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/03/24 18:44	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 18:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/03/24 18:44	2
4-Bromofluorobenzene (Surr)	96		73 - 120		10/03/24 18:44	2
Toluene-d8 (Surr)	97		80 - 120		10/03/24 18:44	2
Dibromofluoromethane (Surr)	101		75 - 123		10/03/24 18:44	2

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.4		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 16:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		15 - 110				10/02/24 17:21	10/03/24 16:57	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-DB2-240930

Lab Sample ID: 480-223871-11

Date Collected: 09/30/24 00:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/03/24 19:06	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/03/24 19:06	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/03/24 19:06	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/03/24 19:06	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/03/24 19:06	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/03/24 19:06	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/03/24 19:06	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/03/24 19:06	10
Acrolein	ND		200	9.1	ug/L			10/03/24 19:06	10
Acrylonitrile	ND		50	8.3	ug/L			10/03/24 19:06	10
Benzene	ND		10	4.1	ug/L			10/03/24 19:06	10
Bromoform	ND		10	2.6	ug/L			10/03/24 19:06	10
Bromomethane	ND		10	6.9	ug/L			10/03/24 19:06	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/03/24 19:06	10
Chlorobenzene	ND		10	7.5	ug/L			10/03/24 19:06	10
Dibromochloromethane	ND		10	3.2	ug/L			10/03/24 19:06	10
Chloroethane	ND		10	3.2	ug/L			10/03/24 19:06	10
Chloroform	ND		10	3.4	ug/L			10/03/24 19:06	10
Chloromethane	ND		10	3.5	ug/L			10/03/24 19:06	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/03/24 19:06	10
Bromodichloromethane	ND		10	3.9	ug/L			10/03/24 19:06	10
Ethylbenzene	ND		10	7.4	ug/L			10/03/24 19:06	10
Methylene Chloride	ND		10	4.4	ug/L			10/03/24 19:06	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/03/24 19:06	10
o-Xylene	ND		10	7.6	ug/L			10/03/24 19:06	10
Tetrachloroethene	ND		10	3.6	ug/L			10/03/24 19:06	10
Toluene	ND		10	5.1	ug/L			10/03/24 19:06	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/03/24 19:06	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/03/24 19:06	10
Trichloroethene	ND		10	4.6	ug/L			10/03/24 19:06	10
Vinyl chloride	ND		10	9.0	ug/L			10/03/24 19:06	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/03/24 19:06	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 19:06	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					10/03/24 19:06	10
4-Bromofluorobenzene (Surr)	97		73 - 120					10/03/24 19:06	10
Toluene-d8 (Surr)	98		80 - 120					10/03/24 19:06	10
Dibromofluoromethane (Surr)	101		75 - 123					10/03/24 19:06	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.4		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 17:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				10/02/24 17:21	10/03/24 17:18	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99F(S)-0-241001

Lab Sample ID: 480-223871-12

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.22	0.11	ug/L		10/02/24 17:21	10/03/24 17:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		15 - 110				10/02/24 17:21	10/03/24 17:38	1

Client Sample ID: BRNY-GW-MW99F(I)-0-241001

Lab Sample ID: 480-223871-13

Date Collected: 10/01/24 14:20

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/03/24 19:29	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/03/24 19:29	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/03/24 19:29	4
1,1-Dichloroethane	3.1	J	4.0	1.5	ug/L			10/03/24 19:29	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/03/24 19:29	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/03/24 19:29	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/03/24 19:29	4
2-Chloroethyl vinyl ether	R ND		20	3.8	ug/L			10/03/24 19:29	4
Acrolein	ND		80	3.6	ug/L			10/03/24 19:29	4
Acrylonitrile	ND		20	3.3	ug/L			10/03/24 19:29	4
Benzene	ND		4.0	1.6	ug/L			10/03/24 19:29	4
Bromoform	ND		4.0	1.0	ug/L			10/03/24 19:29	4
Bromomethane	ND		4.0	2.8	ug/L			10/03/24 19:29	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/03/24 19:29	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/03/24 19:29	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/03/24 19:29	4
Chloroethane	ND		4.0	1.3	ug/L			10/03/24 19:29	4
Chloroform	ND		4.0	1.4	ug/L			10/03/24 19:29	4
Chloromethane	ND		4.0	1.4	ug/L			10/03/24 19:29	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/03/24 19:29	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/03/24 19:29	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/03/24 19:29	4
Methylene Chloride	ND		4.0	1.8	ug/L			10/03/24 19:29	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			10/03/24 19:29	4
o-Xylene	ND		4.0	3.0	ug/L			10/03/24 19:29	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/03/24 19:29	4
Toluene	ND		4.0	2.0	ug/L			10/03/24 19:29	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/03/24 19:29	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/03/24 19:29	4
Trichloroethene	ND		4.0	1.8	ug/L			10/03/24 19:29	4
Vinyl chloride	9.2		4.0	3.6	ug/L			10/03/24 19:29	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/03/24 19:29	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 19:29	4

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/03/24 19:29	4
4-Bromofluorobenzene (Surr)	95		73 - 120					10/03/24 19:29	4
Toluene-d8 (Surr)	97		80 - 120					10/03/24 19:29	4

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99F(I)-0-241001

Lab Sample ID: 480-223871-13

Date Collected: 10/01/24 14:20

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		75 - 123		10/03/24 19:29	4

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8		0.21	0.10	ug/L		10/02/24 17:21	10/03/24 17:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110				10/02/24 17:21	10/03/24 17:59	1

Client Sample ID: BRNY-GW-MW99F(D)-0-241001

Lab Sample ID: 480-223871-14

Date Collected: 10/01/24 09:35

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/03/24 19:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/03/24 19:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/03/24 19:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/03/24 19:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/03/24 19:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/24 19:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/03/24 19:51	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/03/24 19:51	1
Acrolein	ND		20	0.91	ug/L			10/03/24 19:51	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/03/24 19:51	1
Benzene	ND		1.0	0.41	ug/L			10/03/24 19:51	1
Bromoform	ND		1.0	0.26	ug/L			10/03/24 19:51	1
Bromomethane	ND		1.0	0.69	ug/L			10/03/24 19:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/03/24 19:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/03/24 19:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/03/24 19:51	1
Chloroethane	ND		1.0	0.32	ug/L			10/03/24 19:51	1
Chloroform	ND		1.0	0.34	ug/L			10/03/24 19:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/03/24 19:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/03/24 19:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/03/24 19:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/03/24 19:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/03/24 19:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/03/24 19:51	1
o-Xylene	ND		1.0	0.76	ug/L			10/03/24 19:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/03/24 19:51	1
Toluene	ND		1.0	0.51	ug/L			10/03/24 19:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/03/24 19:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/03/24 19:51	1
Trichloroethene	ND		1.0	0.46	ug/L			10/03/24 19:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/03/24 19:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/03/24 19:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 19:51	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-MW99F(D)-0-241001

Lab Sample ID: 480-223871-14

Date Collected: 10/01/24 09:35

Matrix: Water

Date Received: 10/02/24 16:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/03/24 19:51	1
4-Bromofluorobenzene (Surr)	95		73 - 120		10/03/24 19:51	1
Toluene-d8 (Surr)	96		80 - 120		10/03/24 19:51	1
Dibromofluoromethane (Surr)	101		75 - 123		10/03/24 19:51	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.15	J	0.20	0.10	ug/L		10/02/24 17:21	10/03/24 18:20	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	30		15 - 110	10/02/24 17:21	10/03/24 18:20	1			

Client Sample ID: BRNY-GW-GEB28BI-0-241001

Lab Sample ID: 480-223871-15

Date Collected: 10/01/24 14:40

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.5		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 18:41	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	25		15 - 110	10/02/24 17:21	10/03/24 18:41	1			

Client Sample ID: BRNY-GW-GEB28BD-0-241001

Lab Sample ID: 480-223871-16

Date Collected: 10/01/24 13:30

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.5		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 19:02	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	31		15 - 110	10/02/24 17:21	10/03/24 19:02	1			

Client Sample ID: BRNY-GW-FB6-241001

Lab Sample ID: 480-223871-17

Date Collected: 10/01/24 15:10

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/03/24 20:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/03/24 20:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/03/24 20:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/03/24 20:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/03/24 20:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/24 20:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/03/24 20:13	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/03/24 20:13	1
Acrolein	ND		20	0.91	ug/L			10/03/24 20:13	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/03/24 20:13	1
Benzene	ND		1.0	0.41	ug/L			10/03/24 20:13	1
Bromoform	ND		1.0	0.26	ug/L			10/03/24 20:13	1
Bromomethane	ND		1.0	0.69	ug/L			10/03/24 20:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/03/24 20:13	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-FB6-241001

Lab Sample ID: 480-223871-17

Date Collected: 10/01/24 15:10

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			10/03/24 20:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/03/24 20:13	1
Chloroethane	ND		1.0	0.32	ug/L			10/03/24 20:13	1
Chloroform	ND		1.0	0.34	ug/L			10/03/24 20:13	1
Chloromethane	ND		1.0	0.35	ug/L			10/03/24 20:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/03/24 20:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/03/24 20:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/03/24 20:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/03/24 20:13	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/03/24 20:13	1
o-Xylene	ND		1.0	0.76	ug/L			10/03/24 20:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/03/24 20:13	1
Toluene	ND		1.0	0.51	ug/L			10/03/24 20:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/03/24 20:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/03/24 20:13	1
Trichloroethene	ND		1.0	0.46	ug/L			10/03/24 20:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/03/24 20:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/03/24 20:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/03/24 20:13	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/03/24 20:13	1
Toluene-d8 (Surr)	100		80 - 120		10/03/24 20:13	1
Dibromofluoromethane (Surr)	103		75 - 123		10/03/24 20:13	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/02/24 17:21	10/03/24 19:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110				10/02/24 17:21	10/03/24 19:23	1

Client Sample ID: BRNY-GW-TB3-241001

Lab Sample ID: 480-223871-18

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/03/24 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/03/24 20:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/03/24 20:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/03/24 20:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/03/24 20:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/24 20:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/03/24 20:35	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/03/24 20:35	1
Acrolein	ND		20	0.91	ug/L			10/03/24 20:35	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/03/24 20:35	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223871-1

Client Sample ID: BRNY-GW-TB3-241001

Lab Sample ID: 480-223871-18

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 16:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/03/24 20:35	1
Bromoform	ND		1.0	0.26	ug/L			10/03/24 20:35	1
Bromomethane	ND		1.0	0.69	ug/L			10/03/24 20:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/03/24 20:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/03/24 20:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/03/24 20:35	1
Chloroethane	ND		1.0	0.32	ug/L			10/03/24 20:35	1
Chloroform	ND		1.0	0.34	ug/L			10/03/24 20:35	1
Chloromethane	ND		1.0	0.35	ug/L			10/03/24 20:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/03/24 20:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/03/24 20:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/03/24 20:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/03/24 20:35	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/03/24 20:35	1
o-Xylene	ND		1.0	0.76	ug/L			10/03/24 20:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/03/24 20:35	1
Toluene	ND		1.0	0.51	ug/L			10/03/24 20:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/03/24 20:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/03/24 20:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/03/24 20:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/03/24 20:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/03/24 20:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/03/24 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/03/24 20:35	1
4-Bromofluorobenzene (Surr)	94		73 - 120		10/03/24 20:35	1
Toluene-d8 (Surr)	96		80 - 120		10/03/24 20:35	1
Dibromofluoromethane (Surr)	103		75 - 123		10/03/24 20:35	1

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3M Company

Data Usability Summary Report

Brockport, New York

Per- and Poly-fluoroalkyl Substances (PFAS) Analysis

SDG # 410-189587-1

Analysis Performed By:
Eurofins Test America
Lancaster, Pennsylvania

Report # 57839R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 410-189587-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					PFAS
BRNY-GW-AGM1OB-0-240924	410-189587-1	Water	09/24/2024		X
BRNY-GW-AGM1SB-0-240924	410-189587-2	Water	09/24/2024		X
BRNY-GW-AGM3OB-0-240924	410-189587-3	Water	09/24/2024		X
BRNY-GW-AGM5OB-0-240924	410-189587-4	Water	09/24/2024		X
BRNY-GW-DB-240924	410-189587-5	Water	09/24/2024	BRNY-GW-AGM3OB-0-240924	X
BRNY-GW-EB1-240924	410-189587-6	Water	09/24/2024		X
BRNY-GW-FB1-240924	410-189587-7	Water	09/24/2024		X
BRNY-GW-TB-240924	410-189587-8	Water	09/24/2024		X

Notes:

PFAS = per-polyfluoroalkyl substances

DATA USABILITY SUMMARY REPORT

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X	X		
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

10. Field sample ID mismatch observed between the chain of custody and the sample container. Details are presented in the following table. Field sample id was considered as per the chain of custody.

Field Sample ID on COC	Field Sample IDs on container
BRNY-GW-AGM3OB-0-240924	BRNY-GW-AGM3SB-0-240924

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) 4th Draft Method 1633. Data were reviewed in accordance with USEPA Method 1633, Department of Defense (DoD) Quality Systems Manual (QSM) 5.4, DoD General Data Validation Guidelines, November 2019, DoD Final Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24, November 2022, and in addition and in addition, USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified, and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Per DoD General Data Validation Guidelines November 2019 Revision 1 Section 4.8 states; "The following provides a brief explanation of the DoD data validation qualifiers assigned to results during the data review process by a data validator. The reviewer should use these qualifiers, as applicable, unless other data qualifiers are specified in a project related document, such as a QAPP. If other qualifiers are used, a complete explanation of those qualifiers should accompany the data validation report." Below are the qualifier codes that may be applied in this validation report:

- Concentration (C) Qualifiers
 - U The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - 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.
 - UJ The analyte was not detected and was reported as less than the LOD. However, the associated numerical value is approximate.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

A fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Per- and polyfluoroalkyl Substances (PFAS) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
USEPA method 1633/ DoD QSM 5.4	Water	28 days to extraction; 28 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, instrument, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Instrument blanks measure carryover in the instrument from one sample to another. Method blanks measure laboratory contamination. Equipment rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Calibration

Mass calibration and system performance were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The percent relative standard deviation (%RSD) of the response factors (RF) must be less than 20%, or for linear calibration, $r^2 \geq 0.99$. The initial calibration verification (ICV) standard recoveries must be within 70-130% of their true value.

All compounds associated with initial calibration, and ICV were within the control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit of 30%.

All compounds associated with the continuing calibration verification (CCV) standards were within the control limits.

4.3 Instrument Sensitivity Check (ISC)

The ISC concentration must be at the LOQ. All target compounds associated with the ISC must exhibit a percent recovery (%R) of 70 to 130%.

All compounds associated with ISC recoveries were within control limits.

4.4 Ion Transitions

Quantitation of analytes must use the ion transitions documented in Table 7 of EPA Method 1633.

The ion transitions were as specified in the method.

5. Extracted Internal Standards (EIS)

Labeled standards must be added to all field samples and QC samples prior to extraction. EIS recoveries must be within limits specified in the QAPP or laboratory calculated limits, of the ICAL midpoint standard area or area measured in the initial CCV on days when ICAL not performed. If EIS percent recoveries are out of specification with no evidence of re-extraction (except for sample used for MS/MSD analysis) and reanalysis, justification should be noted in the laboratory case narrative.

All EIS recoveries were within control limits.

6. Non-Extracted Internal Standards (NIS)

The NIS areas in the field samples and QC samples must be within 50 to 200% of the area of the calibration verification standard run at the beginning of the analytical sequence. If any NIS peak area is out of specification, then a re-extraction (except for sample used for MS/MSD analysis) and reanalysis should be performed and reported. The laboratory should have reported the first run if the second was still unsuccessful. If the second run did not confirm the failure, it should have been reported.

All NIS recoveries were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the within the 4th draft method EPA 1633 acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be $\leq 30\%$.

Note: Recovery criteria for MS/MSD are applicable where the spike concentration is at least 4 times greater than the native analyte concentration. If this is not the case, the MS and MSD percent recovery criteria do not apply.

The MS/MSD analysis performed on sample BRNY-GW-AGM3OB-0-240924 exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) and Low-Level (LLLCS/LLLCSD) Analysis

The LCS/LCSD and LLLCS/LLLCSD analyses are used to assess the accuracy of the analytical method independent of matrix interferences. The LLLCS is spiked at two times the LOQ to verify the LOQ, and the LCS is spiked at the midpoint of the calibration range. The compounds associated with the LCS/LCSD and LLLCS/LLLCSD analyses for aqueous matrix must exhibit a percent recovery within the 4th draft method EPA 1633 Table 5 and 5a acceptance limits. Limits that are not specified in these tables will be laboratory calculated limits.

NOTE: LCS and LLLCS are OPR and LLOPR, respectively, method EPA 1633.

DATA USABILITY SUMMARY REPORT

All compounds associated with the LCS/LCSD and LLLCS analyses exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soils is applied to the RPD between the parent sample and the field duplicate when both results are greater than 5 times the LOQ. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the LOQ, a control limit of absolute difference less than or equal to two times the LOQ is applied for water matrices and three time the LOQ for soil matrices.

Results for field duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
BRNY-GW-AGM3OB-0-240924 / BRNY-GW-DB-240924	Perfluorobutanoic acid (PFBA)	6.6	6.9	AC
	Perfluoropentanoic acid (PFPeA)	2.0	1.9	AC
	Perfluorohexanoic acid (PFHxA)	2.4	2.6	AC
	Perfluoroheptanoic acid (PFHpA)	1.5	1.5 J	AC
	Perfluorooctanoic acid (PFOA)	4.5	5.3	AC
	Perfluorononanoic acid (PFNA)	0.88 J	0.91 U	AC
	Perfluorobutanesulfonic acid (PFBS)	1.5	1.6	AC
	Perfluorohexanesulfonic acid (PFHxS)	2.1	2.1	AC
	Perfluorooctanesulfonic acid (PFOS)	4.6	4.3	AC

Notes:

AC Acceptable

U Non detect

The calculated RPDs and results between the parent sample and field duplicate were acceptable.

10. Compound Identification

PFC analytes are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times. For analytes that are reported at concentrations at or greater than the LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the mid-point initial calibration standard. For analytes that are reported at a concentration between the method detection limit (MDL) and LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the initial daily continuing calibration verification standard.

All identified compounds met method criteria with the exceptions noted below.

Sample Locations	Compound	Ion Ratio %R
BRNY-GW-AGM1SB-0-240924	PFBS	188%
BRNY-GW-AGM3OB-0-240924	PFNA	158 %
BRNY-GW-AGM5OB-0-240924		170%

DATA USABILITY SUMMARY REPORT

In the case of an ion ratio deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
< 50% or > 150% R	Detect	J
Gross exceedance	Detect	JN

Note a number of results were manually integrated which were spot checked. The manual quantitation (M) laboratory qualifier has been preserved with the data as informational data for the end user; there was no impact on the data usability. The manual quantitation (M) laboratory qualifier associated with data reported as non-detect have been removed.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for PFAS

PFAS: EPA 1633/DoD QSM 5.4	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)						
Stage 2a Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate (LCSD) %R		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate (MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field Duplicate (RPD)		X		X		
Extracted Internal Standard %R		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Stage 2b Validation						
Instrument tune and performance check		X		X		
Initial calibration %RSDs		X		X		
Initial calibration verification %R		X		X		
Continuing calibration %Ds		X		X		
Instrument sensitivity check		X		X		
Ion transitions used		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Ion Ratio %R		X	X			
E. Transcription/calculations acceptable		X		X		
F. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

%RSD Relative standard deviation

%R Percent recovery

DATA USABILITY SUMMARY REPORT

PFAS: EPA 1633/DoD QSM 5.4	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)

RPD Relative percent difference
%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹	Noncompliance
					PFAS	
410-189587-1	09/24/2024	SW846	BRNY-GW-AGM1OB-0-240924	Water	Yes	--
	09/24/2024	SW846	BRNY-GW-AGM1SB-0-240924	Water	No	Ion ratio outside control limits
	09/24/2024	SW846	BRNY-GW-AGM3OB-0-240924	Water	No	Ion ratio outside control limits
	09/24/2024	SW846	BRNY-GW-AGM5OB-0-240924	Water	No	Ion ratio outside control limits
	09/24/2024	SW846	BRNY-GW-DB-240924	Water	Yes	--
	09/24/2024	SW846	BRNY-GW-EB1-240924	Water	Yes	--
	09/24/2024	SW846	BRNY-GW-FB1-240924	Water	Yes	--
	09/24/2024	SW846	BRNY-GW-TB-240924	Water	Yes	--

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: February 10, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

Client Information		Sampler: <u>Kathlyn Fleming & Robert Sullivan</u>		Lab PM: Brown Nicole		Carrier Tracking No(s):		COC No: 410-131464-37205.1															
Client Contact: Amanda Albrecht		Phone: <u>619-727-1921</u>		E-Mail: Nicole.Brown@et.eurofinsus.com		State of Origin: <u>NY</u>		Page: Page 1 of 1															
Company: 3M Company		PWSID:		Analysis Requested						Job #:													
Address: 3M Laboratory 3M Center Building 260-5N-17		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633_Final (MOD) List of 37 (EPA 1633 Draft Method)						Preservation Codes													
City: St Paul		TAT Requested (days):								N None													
State, Zip: MN 55144-1000		Compliance Project: ☐ Yes ☐ No								Other:													
Phone: 651 736-9414(Tel)		PO #:																					
Email: aalbrecht2@mmm.com		Purchase Order Requested																					
Project Name: E24-0521 Former 3M/Dynacolor Site PFAS		WO #:																					
Site: <u>3M Brockport</u>		Project #:																					
		SSOW#:																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		1633_Final (MOD) List of 37 (EPA 1633 Draft Method)		Total Number of Containers		Special Instructions/Note:					
						Preservation Code:																	
BRNY-GW-AGM30B-Ø-240924		9/24/24		1850		G		Water		N		Y		X				6 ms/msd					
BRNY-GW-AGM10B-Ø-240924		9/24/24		1100		G		Water		N		N		X				2					
BRNY-GW-PB-240924		9/24/24		—		G		Water		N		N		X				2					
BRNY-GW-AGM15B-Ø-240924		9/24/24		1425		G		Water		N		N		X				2					
BRNY-GW-AGM50B-Ø-240924		9/24/24		1415		G		Water		N		N		X				2					
BRNY-GW-FB2-240924		9/24/24		1500		G		Water		N		N		X				2					
BRNY-GW-EB2-240924		9/24/24		1530		G		Water		N		N		X				2					
BRNY-GW-TB-240924		—		—		—		Water		N		N		X				2					
								Water															
								Water															
								Water															
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months													
Deliverable Requested I II III IV Other (specify)										Special Instructions/QC Requirements.													
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: <u>Kathlyn Fleming</u>				Date/Time: <u>9/24/2024 1700</u>				Company: <u>Arcadis</u>				Received by: _____				Date/Time: _____				Company: _____			
Relinquished by: _____				Date/Time: _____				Company: _____				Received by: _____				Date/Time: _____				Company: _____			
Relinquished by: _____				Date/Time: _____				Company: _____				Received by: <u>MMR</u>				Date/Time: <u>9/25/24 0955</u>				Company: <u>MMR</u>			
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.		Captor Temperature(s) °C and Other Remarks: <u>114-CLD</u>																			

Definitions/Glossary

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Qualifiers

LCMS

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM1OB-0-240924

Lab Sample ID: 410-189587-1

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18		3.3	0.92	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoropentanoic acid (PFPeA)	3.5		1.7	0.50	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorohexanoic acid (PFHxA)	3.8		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoroheptanoic acid (PFHpA)	4.0		1.7	0.67	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorooctanoic acid (PFOA)	11		1.7	0.75	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorononanoic acid (PFNA)	1.5	J	1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorobutanesulfonic acid (PFBS)	2.1		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.7	0.67	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.50	ng/L		09/27/24 07:02	10/04/24 07:47	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.3	0.84	ng/L		09/27/24 07:02	10/04/24 07:47	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.3	0.84	ng/L		09/27/24 07:02	10/04/24 07:47	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.3	0.84	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.4	2.1	ng/L		09/27/24 07:02	10/04/24 07:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.4	2.1	ng/L		09/27/24 07:02	10/04/24 07:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.5	1.0	ng/L		09/27/24 07:02	10/04/24 07:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.51	J	1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND		1.7	0.42	ng/L		09/27/24 07:02	10/04/24 07:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.3	0.84	ng/L		09/27/24 07:02	10/04/24 07:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.4	2.3	ng/L		09/27/24 07:02	10/04/24 07:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.4	2.1	ng/L		09/27/24 07:02	10/04/24 07:47	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM1OB-0-240924

Lab Sample ID: 410-189587-1

Date Collected: 09/24/24 11:00

Matrix: Water

Date Received: 09/25/24 09:55

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	74.2		5 - 130	09/27/24 07:02	10/04/24 07:47	1
13C5 PFPeA	62.2		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C5 PFHxA	85.4		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C4 PFHpA	72.3		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C8 PFOA	81.9		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C9 PFNA	84.1		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C6 PFDA	80.8		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C7 PFUnA	77.6		30 - 130	09/27/24 07:02	10/04/24 07:47	1
13C2 PFTeDA	86.5		10 - 130	09/27/24 07:02	10/04/24 07:47	1
13C3 PFBS	74.2		40 - 135	09/27/24 07:02	10/04/24 07:47	1
13C3 PFHxS	81.2		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C8 PFOS	80.2		40 - 130	09/27/24 07:02	10/04/24 07:47	1
13C8 FOSA	77.0		40 - 130	09/27/24 07:02	10/04/24 07:47	1
d3-NMeFOSAA	72.0		40 - 170	09/27/24 07:02	10/04/24 07:47	1
d5-NEtFOSAA	103		25 - 135	09/27/24 07:02	10/04/24 07:47	1
M2-4:2 FTS	157		40 - 200	09/27/24 07:02	10/04/24 07:47	1
M2-6:2 FTS	159		40 - 200	09/27/24 07:02	10/04/24 07:47	1
M2-8:2 FTS	133		40 - 300	09/27/24 07:02	10/04/24 07:47	1
13C3 HFPO-DA	79.5		40 - 130	09/27/24 07:02	10/04/24 07:47	1
d7-N-MeFOSE-M	54.2		10 - 130	09/27/24 07:02	10/04/24 07:47	1
d9-N-EtFOSE-M	52.9		10 - 130	09/27/24 07:02	10/04/24 07:47	1
d5-NEtPFOSA	57.9		10 - 130	09/27/24 07:02	10/04/24 07:47	1
d3-NMePFOSA	59.6		10 - 130	09/27/24 07:02	10/04/24 07:47	1
13C2 PFDoA	74.1		10 - 130	09/27/24 07:02	10/04/24 07:47	1

Client Sample ID: BRNY-GW-AGM1SB-0-240924

Lab Sample ID: 410-189587-2

Date Collected: 09/24/24 14:25

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.5		2.9	0.81	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoropentanoic acid (PFPeA)	0.96	J	1.5	0.44	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.5	0.59	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorooctanoic acid (PFOA)	2.5		1.5	0.66	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorobutanesulfonic acid (PFBS)	0.58	J X	1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.70	J	1.5	0.59	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM1SB-0-240924

Lab Sample ID: 410-189587-2

Date Collected: 09/24/24 14:25

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.44	ng/L		09/27/24 07:02	10/04/24 08:03	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		2.9	0.74	ng/L		09/27/24 07:02	10/04/24 08:03	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	1.1	J	2.9	0.74	ng/L		09/27/24 07:02	10/04/24 08:03	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		2.9	0.74	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.4	1.8	ng/L		09/27/24 07:02	10/04/24 08:03	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.4	1.8	ng/L		09/27/24 07:02	10/04/24 08:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.2	0.88	ng/L		09/27/24 07:02	10/04/24 08:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 08:03	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		2.9	0.74	ng/L		09/27/24 07:02	10/04/24 08:03	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.4	2.1	ng/L		09/27/24 07:02	10/04/24 08:03	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.4	1.8	ng/L		09/27/24 07:02	10/04/24 08:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	75.6		5 - 130				09/27/24 07:02	10/04/24 08:03	1
13C5 PFPeA	82.6		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C5 PFHxA	81.0		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C4 PFHpA	70.0		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C8 PFOA	84.2		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C9 PFNA	83.5		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C6 PFDA	82.6		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C7 PFUnA	86.9		30 - 130				09/27/24 07:02	10/04/24 08:03	1
13C2 PFTeDA	90.2		10 - 130				09/27/24 07:02	10/04/24 08:03	1
13C3 PFBS	77.7		40 - 135				09/27/24 07:02	10/04/24 08:03	1
13C3 PFHxS	79.4		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C8 PFOS	81.7		40 - 130				09/27/24 07:02	10/04/24 08:03	1
13C8 FOSA	69.1		40 - 130				09/27/24 07:02	10/04/24 08:03	1
d3-NMeFOSAA	66.1		40 - 170				09/27/24 07:02	10/04/24 08:03	1
d5-NEtFOSAA	95.3		25 - 135				09/27/24 07:02	10/04/24 08:03	1
M2-4:2 FTS	124		40 - 200				09/27/24 07:02	10/04/24 08:03	1
M2-6:2 FTS	95.9		40 - 200				09/27/24 07:02	10/04/24 08:03	1
M2-8:2 FTS	93.3		40 - 300				09/27/24 07:02	10/04/24 08:03	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM1SB-0-240924

Lab Sample ID: 410-189587-2

Date Collected: 09/24/24 14:25

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83.0		40 - 130	09/27/24 07:02	10/04/24 08:03	1
d7-N-MeFOSE-M	49.4		10 - 130	09/27/24 07:02	10/04/24 08:03	1
d9-N-EtFOSE-M	41.2		10 - 130	09/27/24 07:02	10/04/24 08:03	1
d5-NEtPFOSA	59.2		10 - 130	09/27/24 07:02	10/04/24 08:03	1
d3-NMePFOSA	67.0		10 - 130	09/27/24 07:02	10/04/24 08:03	1
13C2 PFDoA	86.5		10 - 130	09/27/24 07:02	10/04/24 08:03	1

Client Sample ID: BRNY-GW-AGM3OB-0-240924

Lab Sample ID: 410-189587-3

Date Collected: 09/24/24 10:50

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.6		3.0	0.83	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoropentanoic acid (PFPeA)	2.0		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorohexanoic acid (PFHxA)	2.4		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoroheptanoic acid (PFHpA)	1.5		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorooctanoic acid (PFOA)	4.5		1.5	0.68	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorononanoic acid (PFNA)	0.88	JX	1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorobutanesulfonic acid (PFBS)	1.5		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorooctanesulfonic acid (PFOS)	4.6		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 08:20	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	FZFT	3.0	0.75	ng/L		09/27/24 07:02	10/04/24 08:20	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 08:20	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 08:20	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 08:20	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM3OB-0-240924

Lab Sample ID: 410-189587-3

Date Collected: 09/24/24 10:50

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.3	0.90	ng/L		09/27/24 07:02	10/04/24 08:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 08:20	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 08:20	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	2.1	ng/L		09/27/24 07:02	10/04/24 08:20	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 08:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	73.5		5 - 130	09/27/24 07:02	10/04/24 08:20	1
13C5 PFPeA	64.3		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C5 PFHxA	78.8		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C4 PFHpA	72.7		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C8 PFOA	84.1		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C9 PFNA	84.4		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C6 PFDA	86.4		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C7 PFUnA	85.3		30 - 130	09/27/24 07:02	10/04/24 08:20	1
13C2 PFTeDA	95.4		10 - 130	09/27/24 07:02	10/04/24 08:20	1
13C3 PFBS	78.8		40 - 135	09/27/24 07:02	10/04/24 08:20	1
13C3 PFHxS	84.2		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C8 PFOS	85.4		40 - 130	09/27/24 07:02	10/04/24 08:20	1
13C8 FOSA	75.6		40 - 130	09/27/24 07:02	10/04/24 08:20	1
d3-NMeFOSAA	74.0		40 - 170	09/27/24 07:02	10/04/24 08:20	1
d5-NEtFOSAA	108		25 - 135	09/27/24 07:02	10/04/24 08:20	1
M2-4:2 FTS	141		40 - 200	09/27/24 07:02	10/04/24 08:20	1
M2-6:2 FTS	123		40 - 200	09/27/24 07:02	10/04/24 08:20	1
M2-8:2 FTS	118		40 - 300	09/27/24 07:02	10/04/24 08:20	1
13C3 HFPO-DA	79.9		40 - 130	09/27/24 07:02	10/04/24 08:20	1
d7-N-MeFOSE-M	64.7		10 - 130	09/27/24 07:02	10/04/24 08:20	1
d9-N-EtFOSE-M	59.0		10 - 130	09/27/24 07:02	10/04/24 08:20	1
d5-NEtPFOSA	66.7		10 - 130	09/27/24 07:02	10/04/24 08:20	1
d3-NMePFOSA	70.3		10 - 130	09/27/24 07:02	10/04/24 08:20	1
13C2 PFDoA	83.1		10 - 130	09/27/24 07:02	10/04/24 08:20	1

Client Sample ID: BRNY-GW-AGM5OB-0-240924

Lab Sample ID: 410-189587-4

Date Collected: 09/24/24 14:15

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.7		3.0	0.84	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoropentanoic acid (PFPeA)	2.5		1.5	0.46	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorohexanoic acid (PFHxA)	3.1		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.5	0.61	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorooctanoic acid (PFOA)	6.2		1.5	0.69	ng/L		09/27/24 07:02	10/04/24 09:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM5OB-0-240924

Lab Sample ID: 410-189587-4

Date Collected: 09/24/24 14:15

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	0.95	J	1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.5	0.61	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorooctanesulfonic acid (PFOS)	5.6		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.46	ng/L		09/27/24 07:02	10/04/24 09:10	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.0	0.76	ng/L		09/27/24 07:02	10/04/24 09:10	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.0	0.76	ng/L		09/27/24 07:02	10/04/24 09:10	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.0	0.76	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.6	1.9	ng/L		09/27/24 07:02	10/04/24 09:10	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.6	1.9	ng/L		09/27/24 07:02	10/04/24 09:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.3	0.91	ng/L		09/27/24 07:02	10/04/24 09:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.38	ng/L		09/27/24 07:02	10/04/24 09:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.76	ng/L		09/27/24 07:02	10/04/24 09:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.6	2.1	ng/L		09/27/24 07:02	10/04/24 09:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.6	1.9	ng/L		09/27/24 07:02	10/04/24 09:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	77.7		5 - 130				09/27/24 07:02	10/04/24 09:10	1
13C5 PFPeA	62.1		40 - 130				09/27/24 07:02	10/04/24 09:10	1
13C5 PFHxA	82.1		40 - 130				09/27/24 07:02	10/04/24 09:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-AGM5OB-0-240924

Lab Sample ID: 410-189587-4

Date Collected: 09/24/24 14:15

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	68.9		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C8 PFOA	80.8		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C9 PFNA	77.9		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C6 PFDA	72.3		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C7 PFUnA	65.6		30 - 130	09/27/24 07:02	10/04/24 09:10	1
13C2 PFTeDA	63.0		10 - 130	09/27/24 07:02	10/04/24 09:10	1
13C3 PFBS	80.0		40 - 135	09/27/24 07:02	10/04/24 09:10	1
13C3 PFHxS	76.5		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C8 PFOS	71.1		40 - 130	09/27/24 07:02	10/04/24 09:10	1
13C8 FOSA	67.5		40 - 130	09/27/24 07:02	10/04/24 09:10	1
d3-NMeFOSAA	58.1		40 - 170	09/27/24 07:02	10/04/24 09:10	1
d5-NEtFOSAA	84.4		25 - 135	09/27/24 07:02	10/04/24 09:10	1
M2-4:2 FTS	137		40 - 200	09/27/24 07:02	10/04/24 09:10	1
M2-6:2 FTS	113		40 - 200	09/27/24 07:02	10/04/24 09:10	1
M2-8:2 FTS	87.6		40 - 300	09/27/24 07:02	10/04/24 09:10	1
13C3 HFPO-DA	82.2		40 - 130	09/27/24 07:02	10/04/24 09:10	1
d7-N-MeFOSE-M	37.0		10 - 130	09/27/24 07:02	10/04/24 09:10	1
d9-N-EtFOSE-M	35.8		10 - 130	09/27/24 07:02	10/04/24 09:10	1
d5-NEtPFOSA	54.3		10 - 130	09/27/24 07:02	10/04/24 09:10	1
d3-NMePFOSA	55.7		10 - 130	09/27/24 07:02	10/04/24 09:10	1
13C2 PFDoA	60.5		10 - 130	09/27/24 07:02	10/04/24 09:10	1

Client Sample ID: BRNY-GW-DB-240924

Lab Sample ID: 410-189587-5

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.9		3.1	0.86	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoropentanoic acid (PFPeA)	1.9		1.6	0.47	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorohexanoic acid (PFHxA)	2.6		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoroheptanoic acid (PFHpA)	1.5	J	1.6	0.63	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorooctanoic acid (PFOA)	5.3		1.6	0.71	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorononanoic acid (PFNA)	ND		0.91	0.91	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorobutanesulfonic acid (PFBS)	1.6		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorohexanesulfonic acid (PFHxS)	2.1		1.6	0.63	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorooctanesulfonic acid (PFOS)	4.3		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.47	ng/L		09/27/24 07:02	10/04/24 09:59	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-DB-240924

Lab Sample ID: 410-189587-5

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.1	0.79	ng/L		09/27/24 07:02	10/04/24 09:59	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.1	0.79	ng/L		09/27/24 07:02	10/04/24 09:59	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.1	0.79	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.9	2.0	ng/L		09/27/24 07:02	10/04/24 09:59	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.9	2.0	ng/L		09/27/24 07:02	10/04/24 09:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.4	0.94	ng/L		09/27/24 07:02	10/04/24 09:59	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.39	ng/L		09/27/24 07:02	10/04/24 09:59	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.1	0.79	ng/L		09/27/24 07:02	10/04/24 09:59	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.9	2.2	ng/L		09/27/24 07:02	10/04/24 09:59	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.9	2.0	ng/L		09/27/24 07:02	10/04/24 09:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	69.2		5 - 130				09/27/24 07:02	10/04/24 09:59	1
13C5 PFPeA	62.9		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C5 PFHxA	76.1		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C4 PFHpA	64.7		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C8 PFOA	74.5		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C9 PFNA	74.6		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C6 PFDA	75.4		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C7 PFUnA	76.1		30 - 130				09/27/24 07:02	10/04/24 09:59	1
13C2 PFTeDA	81.6		10 - 130				09/27/24 07:02	10/04/24 09:59	1
13C3 PFBS	71.3		40 - 135				09/27/24 07:02	10/04/24 09:59	1
13C3 PFHxS	72.8		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C8 PFOS	77.6		40 - 130				09/27/24 07:02	10/04/24 09:59	1
13C8 FOSA	68.5		40 - 130				09/27/24 07:02	10/04/24 09:59	1
d3-NMeFOSAA	69.5		40 - 170				09/27/24 07:02	10/04/24 09:59	1
d5-NEtFOSAA	97.7		25 - 135				09/27/24 07:02	10/04/24 09:59	1
M2-4:2 FTS	126		40 - 200				09/27/24 07:02	10/04/24 09:59	1
M2-6:2 FTS	106		40 - 200				09/27/24 07:02	10/04/24 09:59	1
M2-8:2 FTS	103		40 - 300				09/27/24 07:02	10/04/24 09:59	1
13C3 HFPO-DA	77.8		40 - 130				09/27/24 07:02	10/04/24 09:59	1
d7-N-MeFOSE-M	60.9		10 - 130				09/27/24 07:02	10/04/24 09:59	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-DB-240924

Lab Sample ID: 410-189587-5

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	55.7		10 - 130	09/27/24 07:02	10/04/24 09:59	1
d5-NEtPFOSA	59.8		10 - 130	09/27/24 07:02	10/04/24 09:59	1
d3-NMePFOSA	62.7		10 - 130	09/27/24 07:02	10/04/24 09:59	1
13C2 PFDoA	74.4		10 - 130	09/27/24 07:02	10/04/24 09:59	1

Client Sample ID: BRNY-GW-EB1-240924

Lab Sample ID: 410-189587-6

Date Collected: 09/24/24 15:30

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0	0.82	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorooctanoic acid (PFOA)	ND		1.5	0.67	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 10:16	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:16	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:16	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:16	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.2	0.90	ng/L		09/27/24 07:02	10/04/24 10:16	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-EB1-240924

Lab Sample ID: 410-189587-6

Date Collected: 09/24/24 15:30

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:16	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:16	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	2.1	ng/L		09/27/24 07:02	10/04/24 10:16	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:16	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	81.4		5 - 130				09/27/24 07:02	10/04/24 10:16	1
13C5 PFPeA	77.6		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C5 PFHxA	83.0		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C4 PFHpA	70.1		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C8 PFOA	79.1		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C9 PFNA	80.1		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C6 PFDA	78.3		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C7 PFUnA	77.8		30 - 130				09/27/24 07:02	10/04/24 10:16	1
13C2 PFTeDA	82.5		10 - 130				09/27/24 07:02	10/04/24 10:16	1
13C3 PFBS	75.8		40 - 135				09/27/24 07:02	10/04/24 10:16	1
13C3 PFHxS	76.5		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C8 PFOS	78.0		40 - 130				09/27/24 07:02	10/04/24 10:16	1
13C8 FOSA	69.3		40 - 130				09/27/24 07:02	10/04/24 10:16	1
d3-NMeFOSAA	66.1		40 - 170				09/27/24 07:02	10/04/24 10:16	1
d5-NEtFOSAA	97.0		25 - 135				09/27/24 07:02	10/04/24 10:16	1
M2-4:2 FTS	76.9		40 - 200				09/27/24 07:02	10/04/24 10:16	1
M2-6:2 FTS	78.3		40 - 200				09/27/24 07:02	10/04/24 10:16	1
M2-8:2 FTS	79.0		40 - 300				09/27/24 07:02	10/04/24 10:16	1
13C3 HFPO-DA	89.1		40 - 130				09/27/24 07:02	10/04/24 10:16	1
d7-N-MeFOSE-M	50.2		10 - 130				09/27/24 07:02	10/04/24 10:16	1
d9-N-EtFOSE-M	45.8		10 - 130				09/27/24 07:02	10/04/24 10:16	1
d5-NEtPFOSA	55.0		10 - 130				09/27/24 07:02	10/04/24 10:16	1
d3-NMePFOSA	57.2		10 - 130				09/27/24 07:02	10/04/24 10:16	1
13C2 PFDoA	73.4		10 - 130				09/27/24 07:02	10/04/24 10:16	1

Client Sample ID: BRNY-GW-FB1-240924

Lab Sample ID: 410-189587-7

Date Collected: 09/24/24 15:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0	0.82	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorooctanoic acid (PFOA)	ND		1.5	0.67	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-FB1-240924

Lab Sample ID: 410-189587-7

Date Collected: 09/24/24 15:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.60	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.45	ng/L		09/27/24 07:02	10/04/24 10:32	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:32	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:32	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:32	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.2	0.89	ng/L		09/27/24 07:02	10/04/24 10:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.37	ng/L		09/27/24 07:02	10/04/24 10:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		09/27/24 07:02	10/04/24 10:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	2.1	ng/L		09/27/24 07:02	10/04/24 10:32	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		09/27/24 07:02	10/04/24 10:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79.5		5 - 130	09/27/24 07:02	10/04/24 10:32	1
13C5 PFPeA	79.1		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C5 PFHxA	83.8		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C4 PFHpA	71.5		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C8 PFOA	77.8		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C9 PFNA	76.3		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C6 PFDA	75.9		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C7 PFUnA	75.5		30 - 130	09/27/24 07:02	10/04/24 10:32	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-FB1-240924

Lab Sample ID: 410-189587-7

Date Collected: 09/24/24 15:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	84.2		10 - 130	09/27/24 07:02	10/04/24 10:32	1
13C3 PFBS	77.7		40 - 135	09/27/24 07:02	10/04/24 10:32	1
13C3 PFHxS	75.7		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C8 PFOS	73.7		40 - 130	09/27/24 07:02	10/04/24 10:32	1
13C8 FOSA	67.2		40 - 130	09/27/24 07:02	10/04/24 10:32	1
d3-NMeFOSAA	65.2		40 - 170	09/27/24 07:02	10/04/24 10:32	1
d5-NEtFOSAA	105		25 - 135	09/27/24 07:02	10/04/24 10:32	1
M2-4:2 FTS	78.3		40 - 200	09/27/24 07:02	10/04/24 10:32	1
M2-6:2 FTS	75.1		40 - 200	09/27/24 07:02	10/04/24 10:32	1
M2-8:2 FTS	73.3		40 - 300	09/27/24 07:02	10/04/24 10:32	1
13C3 HFPO-DA	87.1		40 - 130	09/27/24 07:02	10/04/24 10:32	1
d7-N-MeFOSE-M	55.9		10 - 130	09/27/24 07:02	10/04/24 10:32	1
d9-N-EtFOSE-M	53.9		10 - 130	09/27/24 07:02	10/04/24 10:32	1
d5-NEtPFOSA	53.4		10 - 130	09/27/24 07:02	10/04/24 10:32	1
d3-NMePFOSA	56.9		10 - 130	09/27/24 07:02	10/04/24 10:32	1
13C2 PFDoA	72.8		10 - 130	09/27/24 07:02	10/04/24 10:32	1

Client Sample ID: BRNY-GW-TB-240924

Lab Sample ID: 410-189587-8

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.8	1.0	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.57	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.75	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.85	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.75	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.57	ng/L		09/27/24 07:02	10/04/24 10:49	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.8	0.94	ng/L		09/27/24 07:02	10/04/24 10:49	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.8	0.94	ng/L		09/27/24 07:02	10/04/24 10:49	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.8	0.94	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1

Client Sample Results

Client: 3M Company
Project/Site: E24-0521 Former 3M/Dynacolor Site PFAS

Job ID: 410-189587-1

Client Sample ID: BRNY-GW-TB-240924

Lab Sample ID: 410-189587-8

Date Collected: 09/24/24 00:00

Matrix: Water

Date Received: 09/25/24 09:55

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.4	2.4	ng/L		09/27/24 07:02	10/04/24 10:49	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.4	2.4	ng/L		09/27/24 07:02	10/04/24 10:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.8	1.1	ng/L		09/27/24 07:02	10/04/24 10:49	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND		1.9	0.47	ng/L		09/27/24 07:02	10/04/24 10:49	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.94	ng/L		09/27/24 07:02	10/04/24 10:49	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.4	2.6	ng/L		09/27/24 07:02	10/04/24 10:49	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.4	2.4	ng/L		09/27/24 07:02	10/04/24 10:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78.8		5 - 130	09/27/24 07:02	10/04/24 10:49	1
13C5 PFPeA	79.4		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C5 PFHxA	83.8		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C4 PFHpA	72.5		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C8 PFOA	80.4		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C9 PFNA	79.9		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C6 PFDA	76.7		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C7 PFUnA	75.9		30 - 130	09/27/24 07:02	10/04/24 10:49	1
13C2 PFTeDA	89.8		10 - 130	09/27/24 07:02	10/04/24 10:49	1
13C3 PFBS	76.3		40 - 135	09/27/24 07:02	10/04/24 10:49	1
13C3 PFHxS	77.4		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C8 PFOS	76.2		40 - 130	09/27/24 07:02	10/04/24 10:49	1
13C8 FOSA	67.1		40 - 130	09/27/24 07:02	10/04/24 10:49	1
d3-NMeFOSAA	67.3		40 - 170	09/27/24 07:02	10/04/24 10:49	1
d5-NEtFOSAA	104		25 - 135	09/27/24 07:02	10/04/24 10:49	1
M2-4:2 FTS	78.9		40 - 200	09/27/24 07:02	10/04/24 10:49	1
M2-6:2 FTS	76.9		40 - 200	09/27/24 07:02	10/04/24 10:49	1
M2-8:2 FTS	76.6		40 - 300	09/27/24 07:02	10/04/24 10:49	1
13C3 HFPO-DA	88.4		40 - 130	09/27/24 07:02	10/04/24 10:49	1
d7-N-MeFOSE-M	47.6		10 - 130	09/27/24 07:02	10/04/24 10:49	1
d9-N-EtFOSE-M	45.8		10 - 130	09/27/24 07:02	10/04/24 10:49	1
d5-NEtPFOSA	51.1		10 - 130	09/27/24 07:02	10/04/24 10:49	1
d3-NMePFOSA	53.4		10 - 130	09/27/24 07:02	10/04/24 10:49	1
13C2 PFDoA	73.4		10 - 130	09/27/24 07:02	10/04/24 10:49	1

3M Company

Data Usability Summary Report

Brockport, New York

Dissolved Gases Analyses

SDG # 70314894

Analyses Performed By:
Pace Analytical
Melville, New York

Report # 57846R
Review Level: Tier II
Project: 30208031.00001

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG)# 70314894 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					Dissolved Gases
BRNY-GW-AGM1OB-0-240924	70314894001	Water	09/24/2024		X
BRNY-GW-FB1-240924	70314894002	Water	09/24/2024		X

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to method RSK 175. Data were reviewed in accordance with the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Dissolved Gases Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
RSK-175	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was not performed on samples from this SDG.

4. Laboratory Duplicate Sample Analysis

The laboratory duplicate sample relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to five times the reporting limit (RL). A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

The laboratory duplicate analysis performed on sample BRNY-GW-FB1-240924 exhibited an acceptable RPD.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for sample from this SDG.

7. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Dissolved Gases

SVOCs: EPA RSK-175	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
C. Trip blank	X				X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)	X				X
Matrix Spike Duplicate (MSD)	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)	X				X
Surrogate Spike Recoveries	X				X
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

RPD Relative percent difference

%D Percent difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹	Noncompliance
					Diss. Gases	
70314894	09/24/2024	EPA RSK 175	BRNY-GW-AGM1OB-0-240924	Water	Yes	--
	09/24/2024	EPA RSK 175	BRNY-GW-FB1-240924	Water	Yes	--

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant, or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 15, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

 Pace		Pace® Location Requested (City/State): Pace Analytical Long Island NY 575 Broad Hollow Rd, Melville, NY 11747		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields				WO# : 70314894 																			
Company Name: Arcadis		Street Address: 10 Friends Lane Suite 200 Newtown, PA 18940		Contact/Report To: Kaiti Liao Phone #: (267)685-1822 E-Mail: kaiti.liao@arcadis.com Cc E-Mail:		Invoice To: Accounts Payable Invoice E-Mail: accountspayable.administration@arcadis-us.com Purchase Order # (if applicable): 30121243.00001 Quote #:		Specify Container Size ** Identify Container Preservative Type*** Analysis Requested																			
Customer Project #: 30208031.00001		Project Name: 3M/DYNACOLOR		Site Collection Info/Facility ID (as applicable):		Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET		County / State origin of sample(s): New York		*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other																	
Data Deliverables:		Regulatory Program (DW, RCRA, etc.) as applicable:		Reportable [] Yes [] No		Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other		DW PWSID # or WW Permit # as applicable:		Proj. Mgr: Kimberley Mack AcctNum / Client ID: Table #: Profile / Template: 8608 Prelog / Bottle Ord. ID: EZ 3154026 Sample Comment																	
[] Level II [] Level III [] Level IV		[] EQUIS		[] Other		Date Results Requested:		Field Filtered (if applicable): [] Yes [] No		Analysis:																	
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)																											
Customer Sample ID		Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		RISK-175																
				Date Time		Date Time			Results Units																		
BRNY-GW-AGM108-0-240924		WT	G	9/24/24 1100							X																
BRNY-GW-FB1-240924		WT	G	9/24/24 1110							X																
Additional Instructions from Pace*:														Collected By: (Printed Name) Kaitlyn Fleming		Signature: Kaitlyn Fleming		Customer Remarks / Special Conditions / Possible Hazards:									
Relinquished by/Company: (Signature) Kaitlyn Fleming / Arcadis		Date/Time: 9/24/2024 1700		Received by/Company: (Signature) [Signature]		Date/Time: 9/25/24 9:35		Tracking Number:																			
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Date/Time:		Delivered by: [] In-Person [] Courier																			
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Date/Time:		[] FedEx [] UPS [] Other																			
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)		Date/Time:		Page: 1 of 1																			



QUALIFIERS

Project: 3M/DYNACOLOR 9/24

Pace Project No.: 70314894

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M/DYNACOLOR 9/24

Pace Project No.: 70314894

Sample: **BRNY-GW-AGM1OB-0-240924** Lab ID: **70314894001** Collected: 09/24/24 11:00 Received: 09/25/24 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) RSK175									
Analytical Method: RSK-175 Preparation Method: RSK175									
Pace National - Mt. Juliet									
Ethane	34.7	ug/L	13.0	3.40	1	09/30/24 11:32	09/30/24 11:32	74-84-0	
Ethene	<13.0	ug/L	13.0	3.40	1	09/30/24 11:32	09/30/24 11:32	74-85-1	
Methane	11400	ug/L	100	51.0	10	09/30/24 14:30	09/30/24 14:30	74-82-8	
n-Propane	<18.6	ug/L	18.6	5.48	1	09/30/24 11:32	09/30/24 11:32	74-98-6	

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ANALYTICAL RESULTS

Project: 3M/DYNACOLOR 9/24

Pace Project No.: 70314894

Sample: BRNY-GW-FB1-240924		Lab ID: 70314894002		Collected: 09/24/24 15:00		Received: 09/25/24 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) RSK175									
Analytical Method: RSK-175 Preparation Method: RSK175									
Pace National - Mt. Juliet									
Ethane	<13.0	ug/L	13.0	3.40	1	09/30/24 11:36	09/30/24 11:36	74-84-0	
Ethene	<13.0	ug/L	13.0	3.40	1	09/30/24 11:36	09/30/24 11:36	74-85-1	
Methane	<10.0	ug/L	10.0	5.10	1	09/30/24 11:36	09/30/24 11:36	74-82-8	
n-Propane	<18.6	ug/L	18.6	5.48	1	09/30/24 11:36	09/30/24 11:36	74-98-6	

REPORT OF LABORATORY ANALYSIS

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3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compounds (VOCs), Semi Volatile Organic compounds (SVOCs), Per- and Poly-fluoroalkyl Substances (PFAS), and Miscellaneous Analyses

SDG # 480-223894-1

Analyses Performed By:
Eurofins Test America
Buffalo, New York

Report # 57844R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-223894-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					VOC	SVOC	PFAS	Misc.
BRNY-GW-FB1-241002	480-223894-1	Water	10/02/2024		X	X	X	X
BRNY-GW-EB1-241002	480-223894-2	Water	10/02/2024		X	X	X	X

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi Volatile Organic Compounds

PFAS = per-polyfluoroalkyl substances

Misc. = Miscellaneous analysis including Total Cyanide

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260C, 8270D SIM and USEPA method 537. Data were reviewed in accordance with Department of Defense (DoD) Quality Systems Manual (QSM) 5.4, USEPA Data Review and Validation Guideline for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537, November 2018, DoD Final Data Validation Guidelines Module 3: PFAS, May 2020.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - 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.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no

DATA USABILITY SUMMARY REPORT

information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	7 days from collection to analysis (un-preserved) 14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

The compounds were detected in the associated QA blanks; however, the associated sample is a QA sample (equipment blank); therefore, no qualification necessary.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

DATA USABILITY SUMMARY REPORT

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. Tentatively Identified Compounds (TICs)

TICs were reported if detected in the samples. TICs were evaluated for possible lab contaminants as described in USEPA validation guidelines. TICs identified as possible lab contaminants in the guidelines were qualified as rejected (R). TICs reported in the method blanks, or the field QC blanks were qualified as rejected (R) and removed from the final data set. All accepted TIC results were flagged as JN to indicate that the identification is uncertain, and the concentrations are considered estimated.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

12. System Performance and Overall Assessment

Tentatively identified compounds (TICs) were qualified as JN.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X	X			
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X	X			
C. Trip blanks	X				X	
D. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present		X		X		
E. Reporting limits adjusted to reflect sample dilutions		X		X		
Tentatively identified compounds		X		X		

Data Usability Summary Report

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock. System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit percent recoveries and RPDs within the laboratory-established acceptance limits.

The LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
D. Reconstructed ion chromatograms		X		X		
E. Quantitation Reports		X		X		
F. RT of sample compounds within the established RT windows		X		X		
G. Transcription/calculation errors present		X		X		
H. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)

%D = percent difference

Per- and polyfluoroalkyl Substances (PFAS) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
USEPA method 537	Water	28 days to extraction; 28 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, instrument, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Instrument blanks measure carryover in the instrument from one sample to another. Method blanks measure laboratory contamination. Equipment rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Calibration

Mass calibration and system performance were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The percent relative standard deviation (%RSD) of the response factors (RF) must be less than 20%, or for linear calibration, $r^2 \geq 0.99$. The initial calibration verification (ICV) standard recoveries must be within 70-130% of their true value.

All compounds associated with initial calibration, and ICV were within the control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit of 30%.

All compounds associated with the continuing calibration verification (CCV) standards were within the control limits.

4.3 Instrument Sensitivity Check (ISC)

The ISC concentration must be at the LOQ. All target compounds associated with the ISC must exhibit a percent recovery (%R) of 50 to 150%.

DATA USABILITY SUMMARY REPORT

All compounds associated with ISC recoveries were within control limits.

4.4 Ion Transitions

Quantitation of analytes must use the ion transitions documented in DoD QSM 5.3 Table B-15.

The ion transitions were as specified in DoD QSM 5.3.

5. Extracted Internal Standards (EIS)

Labeled standards must be added to all field samples and QC samples prior to extraction. EIS recoveries must be within 50% to 150% of ICAL midpoint standard area or area measured in the initial CCV on days when ICAL not performed.

All EIS recoveries were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be $\leq 30\%$.

Note: Recovery criteria for MS/MSD are applicable where the spike concentration is at least 4 times greater than the native analyte concentration. If this is not the case, the MS and MSD percent recovery criteria do not apply.

The MS/MSD analysis was not performed on samples from this SDG.

7. Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the accuracy and precision of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory acceptance limits.

All compounds associated with the LCS/LCSD analyses exhibited recoveries and RPD within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soils is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices and three times the RL for soil matrices.

A field duplicate sample was not collected for the samples from this SDG.

9. Compound Identification

PFC analytes are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

All identified compounds met method criteria

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for PFAS

PFAS: EPA 537	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)						
Stage 2a Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate (LCSD) %R		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS) %R	X				X	
Matrix Spike Duplicate (MSD) %R	X				X	
MS/MSD Precision (RPD)	X				X	
Field Duplicate (RPD)	X				X	
Extracted Internal Standard %R		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Stage 2b Validation						
Instrument tune and performance check		X		X		
Initial calibration %RSDs		X		X		
Initial calibration verification %R		X		X		
Continuing calibration %Ds		X		X		
Instrument sensitivity check		X		X		
Ion transitions used		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Ion Ratio %R		X		X		
E. Transcription/calculations acceptable		X		X		
F. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

Inorganic Analysis Introduction

Analyses were performed according to method USEPA 9012B. Data were reviewed in accordance with the USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this

DATA USABILITY SUMMARY REPORT

is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS analysis was performed on sample BRNY-GW-EB1-241002 for the cyanide analysis. The MS analysis exhibited a recovery within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

The laboratory duplicate analysis was performed on sample BRNY-GW-EB1-241002 for the cyanide analysis. The laboratory duplicate analysis exhibited an acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not collected for the samples from this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 9012B and SM 5310C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R = percent recovery

RPD = relative percent difference

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOC	SVOC	PFAS	Cyanide	
480-223894-1	10/02/2024	SW846	BRNY-GW-FB1-241002	Water	No	Yes	Yes	Yes	2-chloroethyl vinyl ether result rejection
	10/02/2024	SW846	BRNY-GW-EB1-241002	Water	No	Yes	Yes	Yes	2-chloroethyl vinyl ether result rejection

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 30, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record

Environment Testing
America

Client Information		Samplers: Kaitlyn Fleming, <i>Adam Sullivan</i>		Lab PM: John Beninati		Carrier Tracking No(s):		COC No.															
Client Contact Ryan Clare		Phone Kaitlyn's cell - 619.727.1921		E-Mail: john.beninati@et.eurofinsus.com		State of Origin New York		Page: 1 of 1															
Company Arcadis of New York, Inc.		PWSID:		Analysis Requested						Job #:													
Address 100 Chestnut Street Suite 1020		Due Date Requested:		Field Filtered Sample (Yes or No) 8260C - 8260 (MOD) ASP00 with Tics 9012B - Total Cyanide SMS310D - TOC 8270D_SIM - 1,4 Dioxane Total Number of containers						Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:													
City: Rochester		TAT Requested (days): Standard (10)																					
State, Zip NY, 14604		Compliance Project: ☐ Yes ☐ No																					
Phone: 1-585-662-4057		PO #: 30208031.00001																					
Email: Ryan.Clare@arcadis.com		WO #:																					
Project Name 3M-Brockport		Project #: 30208031.00001																					
Site: Brockport, NY		SSOW#:																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		8260C - 8260 (MOD) ASP00 with Tics		9012B - Total Cyanide		SMS310D - TOC		8270D_SIM - 1,4 Dioxane		Total Number of containers		Special Instructions/Note:	
BRNY-GW- FB1 - 241002		10/2/24		0840		G		Water		N		N		X		X		X		6			
BRNY-GW- EB1 - 241002		10/2/24		0850		G		Water		N		N		X		X		X		6			
BRNY-GW-						G		Water		N													
BRNY-GW-						G		Water		N													
BRNY-GW-						G		Water		N													
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BRNY-GW-						G		Water		N													

3:22:21 PM

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223894-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223894-1

Client Sample ID: BRNY-GW-FB1-241002

Lab Sample ID: 480-223894-1

Date Collected: 10/02/24 08:40

Matrix: Water

Date Received: 10/02/24 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/02/24 16:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/02/24 16:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/02/24 16:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/02/24 16:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/02/24 16:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/02/24 16:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/02/24 16:35	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/02/24 16:35	1
Acrolein	ND		20	0.91	ug/L			10/02/24 16:35	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/02/24 16:35	1
Benzene	ND		1.0	0.41	ug/L			10/02/24 16:35	1
Bromoform	ND		1.0	0.26	ug/L			10/02/24 16:35	1
Bromomethane	ND		1.0	0.69	ug/L			10/02/24 16:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/02/24 16:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/02/24 16:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/02/24 16:35	1
Chloroethane	ND		1.0	0.32	ug/L			10/02/24 16:35	1
Chloroform	ND		1.0	0.34	ug/L			10/02/24 16:35	1
Chloromethane	ND		1.0	0.35	ug/L			10/02/24 16:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/02/24 16:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/02/24 16:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/02/24 16:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/02/24 16:35	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/02/24 16:35	1
o-Xylene	ND		1.0	0.76	ug/L			10/02/24 16:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/02/24 16:35	1
Toluene	ND		1.0	0.51	ug/L			10/02/24 16:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/02/24 16:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/02/24 16:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/02/24 16:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/02/24 16:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/02/24 16:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/02/24 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/02/24 16:35	1
4-Bromofluorobenzene (Surr)	96		73 - 120					10/02/24 16:35	1
Toluene-d8 (Surr)	97		80 - 120					10/02/24 16:35	1
Dibromofluoromethane (Surr)	102		75 - 123					10/02/24 16:35	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/03/24 09:08	10/04/24 18:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				10/03/24 09:08	10/04/24 18:17	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223894-1

Client Sample ID: BRNY-GW-FB1-241002

Lab Sample ID: 480-223894-1

Date Collected: 10/02/24 08:40

Matrix: Water

Date Received: 10/02/24 13:20

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.85	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.17	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.34	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.34	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.17	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.43	ng/L		10/07/24 16:10	10/09/24 11:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43	ng/L		10/07/24 16:10	10/09/24 11:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.34	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorooctanesulfonamide (PFOSAm)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.85	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.34	ng/L		10/07/24 16:10	10/09/24 11:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		1.7	0.94	ng/L		10/07/24 16:10	10/09/24 11:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.7	0.51	ng/L		10/07/24 16:10	10/09/24 11:39	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.26	ng/L		10/07/24 16:10	10/09/24 11:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	130		27 - 200	10/07/24 16:10	10/09/24 11:39	1
13C2-6:2 FTS	138		26 - 200	10/07/24 16:10	10/09/24 11:39	1
13C5-PFHxA	119		20 - 165	10/07/24 16:10	10/09/24 11:39	1
13C4-PFHpA	122		33 - 166	10/07/24 16:10	10/09/24 11:39	1
13C8-PFOA	131		40 - 154	10/07/24 16:10	10/09/24 11:39	1
13C9-PFNA	119		39 - 162	10/07/24 16:10	10/09/24 11:39	1
13C6-PFDA	119		41 - 153	10/07/24 16:10	10/09/24 11:39	1
13C7-PFUnA	121		35 - 161	10/07/24 16:10	10/09/24 11:39	1
13C2-PFDoA	112		25 - 163	10/07/24 16:10	10/09/24 11:39	1
13C2-PFTeDA	105		17 - 156	10/07/24 16:10	10/09/24 11:39	1
13C3-PFBS	134		27 - 200	10/07/24 16:10	10/09/24 11:39	1
13C3-PFHxS	128		39 - 164	10/07/24 16:10	10/09/24 11:39	1
13C8-PFOS	128		44 - 153	10/07/24 16:10	10/09/24 11:39	1
d3-NMeFOSAA	127		29 - 167	10/07/24 16:10	10/09/24 11:39	1
d5-NEtFOSAA	124		30 - 180	10/07/24 16:10	10/09/24 11:39	1
13C8-PFOSA	110		11 - 149	10/07/24 16:10	10/09/24 11:39	1
13C4-PFBA	108		10 - 168	10/07/24 16:10	10/09/24 11:39	1
13C5-PFPeA	124		15 - 189	10/07/24 16:10	10/09/24 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/03/24 10:46	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223894-1

Client Sample ID: BRNY-GW-EB1-241002

Lab Sample ID: 480-223894-2

Date Collected: 10/02/24 08:50

Matrix: Water

Date Received: 10/02/24 13:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/02/24 16:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/02/24 16:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/02/24 16:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/02/24 16:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/02/24 16:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/02/24 16:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/02/24 16:57	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/02/24 16:57	1
Acrolein	ND		20	0.91	ug/L			10/02/24 16:57	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/02/24 16:57	1
Benzene	ND		1.0	0.41	ug/L			10/02/24 16:57	1
Bromoform	ND		1.0	0.26	ug/L			10/02/24 16:57	1
Bromomethane	ND		1.0	0.69	ug/L			10/02/24 16:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/02/24 16:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/02/24 16:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/02/24 16:57	1
Chloroethane	ND		1.0	0.32	ug/L			10/02/24 16:57	1
Chloroform	ND		1.0	0.34	ug/L			10/02/24 16:57	1
Chloromethane	ND		1.0	0.35	ug/L			10/02/24 16:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/02/24 16:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/02/24 16:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/02/24 16:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/02/24 16:57	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/02/24 16:57	1
o-Xylene	ND		1.0	0.76	ug/L			10/02/24 16:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/02/24 16:57	1
Toluene	0.64 J		1.0	0.51	ug/L			10/02/24 16:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/02/24 16:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/02/24 16:57	1
Trichloroethene	ND		1.0	0.46	ug/L			10/02/24 16:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/02/24 16:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/02/24 16:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/02/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/02/24 16:57	1
4-Bromofluorobenzene (Surr)	95		73 - 120					10/02/24 16:57	1
Toluene-d8 (Surr)	99		80 - 120					10/02/24 16:57	1
Dibromofluoromethane (Surr)	101		75 - 123					10/02/24 16:57	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.21	0.10	ug/L		10/03/24 09:08	10/04/24 18:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				10/03/24 09:08	10/04/24 18:38	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-223894-1

Client Sample ID: BRNY-GW-EB1-241002

Lab Sample ID: 480-223894-2

Date Collected: 10/02/24 08:50

Matrix: Water

Date Received: 10/02/24 13:20

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.88	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.18	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	0.35	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.35	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.18	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.44	ng/L		10/07/24 16:10	10/09/24 11:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.44	ng/L		10/07/24 16:10	10/09/24 11:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.35	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorooctanesulfonamide (PFOSAm)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorobutanoic acid (PFBA)	ND		1.8	0.88	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35	ng/L		10/07/24 16:10	10/09/24 11:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		1.8	0.97	ng/L		10/07/24 16:10	10/09/24 11:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.8	0.53	ng/L		10/07/24 16:10	10/09/24 11:54	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.26	ng/L		10/07/24 16:10	10/09/24 11:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	135		27 - 200	10/07/24 16:10	10/09/24 11:54	1
13C2-6:2 FTS	142		26 - 200	10/07/24 16:10	10/09/24 11:54	1
13C5-PFHxA	121		20 - 165	10/07/24 16:10	10/09/24 11:54	1
13C4-PFHpA	125		33 - 166	10/07/24 16:10	10/09/24 11:54	1
13C8-PFOA	133		40 - 154	10/07/24 16:10	10/09/24 11:54	1
13C9-PFNA	118		39 - 162	10/07/24 16:10	10/09/24 11:54	1
13C6-PFDA	121		41 - 153	10/07/24 16:10	10/09/24 11:54	1
13C7-PFUnA	118		35 - 161	10/07/24 16:10	10/09/24 11:54	1
13C2-PFDoA	110		25 - 163	10/07/24 16:10	10/09/24 11:54	1
13C2-PFTeDA	104		17 - 156	10/07/24 16:10	10/09/24 11:54	1
13C3-PFBS	133		27 - 200	10/07/24 16:10	10/09/24 11:54	1
13C3-PFHxS	130		39 - 164	10/07/24 16:10	10/09/24 11:54	1
13C8-PFOS	128		44 - 153	10/07/24 16:10	10/09/24 11:54	1
d3-NMeFOSAA	131		29 - 167	10/07/24 16:10	10/09/24 11:54	1
d5-NEtFOSAA	124		30 - 180	10/07/24 16:10	10/09/24 11:54	1
13C8-PFOSA	108		11 - 149	10/07/24 16:10	10/09/24 11:54	1
13C4-PFBA	124		10 - 168	10/07/24 16:10	10/09/24 11:54	1
13C5-PFPeA	125		15 - 189	10/07/24 16:10	10/09/24 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			10/03/24 10:49	1

Eurofins Buffalo

3M Company

Data Usability Summary Report

Brockport, New York

Volatile Organic Compounds (VOCs), Semi Volatile Organic compounds (SVOCs) and Miscellaneous Analyses

SDG # 480-224896-1

Analyses Performed By:
Eurofins Test America
Buffalo, New York

Report # 57845R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-224896-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	Misc.
BRNY-GW-AGM1SB-0-241028	480-224896-1	Water	10/28/2024		X	X	
BRNY-GW-AGM3SB-0-241028	480-224896-2	Water	10/28/2024		X	X	X
BRNY-GW-AGM5SB-0-241028	480-224896-3	Water	10/28/2024		X	X	X
BRNY-GW-AGM8OB-0-241028	480-224896-4	Water	10/28/2024		X		
BRNY-GW-MW99JS-0-241028	480-224896-5	Water	10/28/2024		X	X	
BRNY-GW-FB-241028	480-224896-6	Water	10/28/2024		X	X	X
BRNY-GW-EB-241028	480-224896-7	Water	10/28/2024		X	X	X
BRNY-GW-TB-241022	480-224896-8	Water	10/22/2024		X		

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi Volatile Organic Compounds

Misc. = Miscellaneous analysis including Total Cyanide

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D SIM. Data were reviewed in accordance with the USEPA Region II validation guidelines Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260C (SOP #HW-24, October 2006) and SW-846 Method 8070D (SOP #HW-35, October 2006); and the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound is considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

DATA USABILITY SUMMARY REPORT

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	7 days from collection to analysis (un-preserved) 14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

Note: The target compound 2-chloroethyl vinyl ether degrades in the presence of acid used to preserve the aqueous samples. Therefore, all sample results for 2-chloroethyl vinyl ether have been qualified as rejected.

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following samples were qualified as listed in the following table.

Sample ID	Compounds	Sample Result	Qualification
BRNY-GW-AGM1SB-0-241028	Methylene Chloride (MB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
BRNY-GW-AGM5SB-0-241028		Detected sample results <RL and <BAL	"UB" at the RL
BRNY-GW-AGM8OB-0-241028			

Note:

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

DATA USABILITY SUMMARY REPORT

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit percent recoveries and RPDs within the laboratory-established acceptance limits.

The LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. Tentatively Identified Compounds (TICs)

TICs were reported if detected in the samples. TICs were evaluated for possible lab contaminants as described in USEPA validation guidelines. TICs identified as possible lab contaminants in the guidelines were qualified as rejected (R). TICs reported in the method blanks, or the field QC blanks were qualified as rejected (R) and removed from the final data set. All accepted TIC results were flagged as JN to indicate that the identification is uncertain, and the concentrations are considered estimated.

11. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X	X			
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks		X	X			
C. Trip blanks		X	X			
D. Field blanks		X	X			
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		

Data Usability Summary Report

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	
Tentatively identified compounds		X		X	

Notes:

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock. System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

A field duplicate sample was not collected for the samples from this SDG.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times/Preservation		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate (LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)	X				X	
Matrix Spike Duplicate (MSD)	X				X	
MS/MSD Precision (RPD)	X				X	
Field/Lab Duplicate (RPD)	X				X	
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present		X		X		
E. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270D SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					

%RSD = relative standard deviation

%R = percent recovery

RPD = relative percent difference

%D = percent difference

Inorganic Analysis Introduction

Analyses were performed according to method USEPA SW-846 9012B. Data were reviewed in accordance with the USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate) and associated USEPA Region II guidelines.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (B). No other qualification of the sample results was required.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's

DATA USABILITY SUMMARY REPORT

concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis was not performed on samples from this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

The Laboratory duplicate analysis was not performed on samples from this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for the samples from this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X	X		
C. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R = percent recovery

RPD = relative percent difference

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹			Noncompliance
					VOC	SVOC	Cyanide	
480-224896-1	10/28/2024	SW846	BRNY-GW-AGM1SB-0-241028	Water	No	Yes	--	Blank contamination & 2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-AGM3SB-0-241028	Water	No	Yes	Yes	2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-AGM5SB-0-241028	Water	No	Yes	Yes	Blank contamination & 2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-AGM8OB-0-241028	Water	No	--	--	Blank contamination & 2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-MW99JS-0-241028	Water	No	Yes	--	2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-FB-241028	Water	No	Yes	No	Blank contamination & 2-chloroethyl vinyl ether result rejection
	10/28/2024	SW846	BRNY-GW-EB-241028	Water	No	Yes	No	Blank contamination & 2-chloroethyl vinyl ether result rejection
	10/22/2024	SW846	BRNY-GW-TB-241022	Water	No	--	--	2-chloroethyl vinyl ether result rejection

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 10, 2025

PEER REVIEW: Rachelle LaGarde

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Environment Testing
America



480-224896 Chain of Custody

Ver: 01-16-2019

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-AGM1SB-0-241028

Lab Sample ID: 480-224896-1

Date Collected: 10/28/24 10:45

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/31/24 14:23	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/31/24 14:23	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/31/24 14:23	4
1,1-Dichloroethane	180		4.0	1.5	ug/L			10/31/24 14:23	4
1,1-Dichloroethene	5.0		4.0	1.2	ug/L			10/31/24 14:23	4
1,2-Dichloroethane	1.2 J		4.0	0.84	ug/L			10/31/24 14:23	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/31/24 14:23	4
2-Chloroethyl vinyl ether	R ND		20	3.8	ug/L			10/31/24 14:23	4
Acrolein	ND		80	3.6	ug/L			10/31/24 14:23	4
Acrylonitrile	ND		20	3.3	ug/L			10/31/24 14:23	4
Benzene	ND		4.0	1.6	ug/L			10/31/24 14:23	4
Bromoform	ND		4.0	1.0	ug/L			10/31/24 14:23	4
Bromomethane	ND		4.0	2.8	ug/L			10/31/24 14:23	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/31/24 14:23	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/31/24 14:23	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/31/24 14:23	4
Chloroethane	83		4.0	1.3	ug/L			10/31/24 14:23	4
Chloroform	ND		4.0	1.4	ug/L			10/31/24 14:23	4
Chloromethane	ND		4.0	1.4	ug/L			10/31/24 14:23	4
cis-1,2-Dichloroethene	4.2		4.0	3.2	ug/L			10/31/24 14:23	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/31/24 14:23	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/31/24 14:23	4
Methylene Chloride	4.1 N UB		4.0	1.8	ug/L			10/31/24 14:23	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			10/31/24 14:23	4
o-Xylene	ND		4.0	3.0	ug/L			10/31/24 14:23	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/31/24 14:23	4
Toluene	ND		4.0	2.0	ug/L			10/31/24 14:23	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/31/24 14:23	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/31/24 14:23	4
Trichloroethene	2.1 J		4.0	1.8	ug/L			10/31/24 14:23	4
Vinyl chloride	5.3		4.0	3.6	ug/L			10/31/24 14:23	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/31/24 14:23	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 14:23	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					10/31/24 14:23	4
4-Bromofluorobenzene (Surr)	92		73 - 120					10/31/24 14:23	4
Toluene-d8 (Surr)	92		80 - 120					10/31/24 14:23	4
Dibromofluoromethane (Surr)	96		75 - 123					10/31/24 14:23	4

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	180		10	5.0	ug/L		10/29/24 14:06	10/31/24 10:44	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	43		15 - 110				10/29/24 14:06	10/31/24 10:44	50

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-AGM3SB-0-241028

Lab Sample ID: 480-224896-2

Date Collected: 10/28/24 09:50

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/31/24 14:46	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/31/24 14:46	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/31/24 14:46	10
1,1-Dichloroethane	340		10	3.8	ug/L			10/31/24 14:46	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/31/24 14:46	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/31/24 14:46	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/31/24 14:46	10
2-Chloroethyl vinyl ether	R ND		50	9.6	ug/L			10/31/24 14:46	10
Acrolein	ND		200	9.1	ug/L			10/31/24 14:46	10
Acrylonitrile	ND		50	8.3	ug/L			10/31/24 14:46	10
Benzene	ND		10	4.1	ug/L			10/31/24 14:46	10
Bromoform	ND		10	2.6	ug/L			10/31/24 14:46	10
Bromomethane	ND		10	6.9	ug/L			10/31/24 14:46	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/31/24 14:46	10
Chlorobenzene	ND		10	7.5	ug/L			10/31/24 14:46	10
Dibromochloromethane	ND		10	3.2	ug/L			10/31/24 14:46	10
Chloroethane	200		10	3.2	ug/L			10/31/24 14:46	10
Chloroform	ND		10	3.4	ug/L			10/31/24 14:46	10
Chloromethane	ND		10	3.5	ug/L			10/31/24 14:46	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/31/24 14:46	10
Bromodichloromethane	ND		10	3.9	ug/L			10/31/24 14:46	10
Ethylbenzene	ND		10	7.4	ug/L			10/31/24 14:46	10
Methylene Chloride	11		10	4.4	ug/L			10/31/24 14:46	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			10/31/24 14:46	10
o-Xylene	ND		10	7.6	ug/L			10/31/24 14:46	10
Tetrachloroethene	ND		10	3.6	ug/L			10/31/24 14:46	10
Toluene	ND		10	5.1	ug/L			10/31/24 14:46	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/31/24 14:46	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/31/24 14:46	10
Trichloroethene	ND		10	4.6	ug/L			10/31/24 14:46	10
Vinyl chloride	ND		10	9.0	ug/L			10/31/24 14:46	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/31/24 14:46	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 14:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/31/24 14:46	10
4-Bromofluorobenzene (Surr)	88		73 - 120					10/31/24 14:46	10
Toluene-d8 (Surr)	91		80 - 120					10/31/24 14:46	10
Dibromofluoromethane (Surr)	98		75 - 123					10/31/24 14:46	10

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	520		42	21	ug/L		10/29/24 14:06	10/31/24 11:06	200
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	47		15 - 110				10/29/24 14:06	10/31/24 11:06	200

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-AGM3SB-0-241028

Lab Sample ID: 480-224896-2

Date Collected: 10/28/24 09:50

Matrix: Water

Date Received: 10/28/24 15:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.46	P	0.010	0.0041	mg/L			10/30/24 10:01	1

Client Sample ID: BRNY-GW-AGM5SB-0-241028

Lab Sample ID: 480-224896-3

Date Collected: 10/28/24 12:00

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			10/31/24 15:10	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/31/24 15:10	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/31/24 15:10	2
1,1-Dichloroethane	0.93	J	2.0	0.76	ug/L			10/31/24 15:10	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			10/31/24 15:10	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/31/24 15:10	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/31/24 15:10	2
2-Chloroethyl vinyl ether	R ND		10	1.0	ug/L			10/31/24 15:10	2
Acrolein	ND		40	1.8	ug/L			10/31/24 15:10	2
Acrylonitrile	ND		10	1.7	ug/L			10/31/24 15:10	2
Benzene	ND		2.0	0.82	ug/L			10/31/24 15:10	2
Bromoform	ND		2.0	0.52	ug/L			10/31/24 15:10	2
Bromomethane	ND		2.0	1.4	ug/L			10/31/24 15:10	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/31/24 15:10	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/31/24 15:10	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/31/24 15:10	2
Chloroethane	ND		2.0	0.64	ug/L			10/31/24 15:10	2
Chloroform	ND		2.0	0.68	ug/L			10/31/24 15:10	2
Chloromethane	ND		2.0	0.70	ug/L			10/31/24 15:10	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/31/24 15:10	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/31/24 15:10	2
Ethylbenzene	ND		2.0	1.5	ug/L			10/31/24 15:10	2
Methylene Chloride	1.8 J B	2.0 UB	2.0	0.88	ug/L			10/31/24 15:10	2
m-Xylene & p-Xylene	1.7 J		4.0	1.3	ug/L			10/31/24 15:10	2
o-Xylene	ND		2.0	1.5	ug/L			10/31/24 15:10	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/31/24 15:10	2
Toluene	ND		2.0	1.0	ug/L			10/31/24 15:10	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/31/24 15:10	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/31/24 15:10	2
Trichloroethene	ND		2.0	0.92	ug/L			10/31/24 15:10	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/31/24 15:10	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/31/24 15:10	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 15:10	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		10/31/24 15:10	2
4-Bromofluorobenzene (Surr)	89		73 - 120		10/31/24 15:10	2
Toluene-d8 (Surr)	95		80 - 120		10/31/24 15:10	2
Dibromofluoromethane (Surr)	92		75 - 123		10/31/24 15:10	2

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-AGM5SB-0-241028

Lab Sample ID: 480-224896-3

Date Collected: 10/28/24 12:00

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	79		0.20	0.10	ug/L		10/29/24 14:06	10/30/24 17:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	44		15 - 110				10/29/24 14:06	10/30/24 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	B	0.010	0.0041	mg/L			10/30/24 10:05	1

Client Sample ID: BRNY-GW-AGM8OB-0-241028

Lab Sample ID: 480-224896-4

Date Collected: 10/28/24 10:30

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			10/31/24 15:33	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/31/24 15:33	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/31/24 15:33	2
1,1-Dichloroethane	1.3	J	2.0	0.76	ug/L			10/31/24 15:33	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			10/31/24 15:33	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/31/24 15:33	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/31/24 15:33	2
2-Chloroethyl vinyl ether	R ND		10	1.0	ug/L			10/31/24 15:33	2
Acrolein	ND		40	1.8	ug/L			10/31/24 15:33	2
Acrylonitrile	ND		10	1.7	ug/L			10/31/24 15:33	2
Benzene	ND		2.0	0.82	ug/L			10/31/24 15:33	2
Bromoform	ND		2.0	0.52	ug/L			10/31/24 15:33	2
Bromomethane	ND		2.0	1.4	ug/L			10/31/24 15:33	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/31/24 15:33	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/31/24 15:33	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/31/24 15:33	2
Chloroethane	ND		2.0	0.64	ug/L			10/31/24 15:33	2
Chloroform	ND		2.0	0.68	ug/L			10/31/24 15:33	2
Chloromethane	ND		2.0	0.70	ug/L			10/31/24 15:33	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/31/24 15:33	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/31/24 15:33	2
Ethylbenzene	ND		2.0	1.5	ug/L			10/31/24 15:33	2
Methylene Chloride	1.9 JB 2.0 UB		2.0	0.88	ug/L			10/31/24 15:33	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			10/31/24 15:33	2
o-Xylene	ND		2.0	1.5	ug/L			10/31/24 15:33	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/31/24 15:33	2
Toluene	ND		2.0	1.0	ug/L			10/31/24 15:33	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/31/24 15:33	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/31/24 15:33	2
Trichloroethene	ND		2.0	0.92	ug/L			10/31/24 15:33	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/31/24 15:33	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/31/24 15:33	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 15:33	2

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-AGM8OB-0-241028

Lab Sample ID: 480-224896-4

Date Collected: 10/28/24 10:30

Matrix: Water

Date Received: 10/28/24 15:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/31/24 15:33	2
4-Bromofluorobenzene (Surr)	93		73 - 120		10/31/24 15:33	2
Toluene-d8 (Surr)	94		80 - 120		10/31/24 15:33	2
Dibromofluoromethane (Surr)	96		75 - 123		10/31/24 15:33	2

Client Sample ID: BRNY-GW-MW99JS-0-241028

Lab Sample ID: 480-224896-5

Date Collected: 10/28/24 12:20

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 15:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 15:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 15:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 15:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 15:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 15:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 15:56	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/31/24 15:56	1
Acrolein	ND		20	0.91	ug/L			10/31/24 15:56	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/31/24 15:56	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 15:56	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 15:56	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 15:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 15:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 15:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 15:56	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 15:56	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 15:56	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 15:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 15:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/24 15:56	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/31/24 15:56	1
o-Xylene	ND		1.0	0.76	ug/L			10/31/24 15:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 15:56	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 15:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 15:56	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 15:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 15:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 15:56	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/31/24 15:56	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/31/24 15:56	1
Toluene-d8 (Surr)	96		80 - 120		10/31/24 15:56	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-MW99JS-0-241028

Lab Sample ID: 480-224896-5

Date Collected: 10/28/24 12:20

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		75 - 123		10/31/24 15:56	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.17	J	0.20	0.10	ug/L		10/29/24 14:06	10/30/24 18:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	46		15 - 110				10/29/24 14:06	10/30/24 18:16	1

Client Sample ID: BRNY-GW-FB-241028

Lab Sample ID: 480-224896-6

Date Collected: 10/28/24 10:50

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 23:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 23:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 23:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 23:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 23:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 23:20	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/31/24 23:20	1
Acrolein	ND		20	0.91	ug/L			10/31/24 23:20	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/31/24 23:20	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 23:20	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 23:20	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 23:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 23:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 23:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 23:20	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 23:20	1
Chloroform	ND		1.0	0.34	ug/L			10/31/24 23:20	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 23:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 23:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 23:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 23:20	1
Methylene Chloride	0.59	J B	1.0	0.44	ug/L			10/31/24 23:20	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/31/24 23:20	1
o-Xylene	ND		1.0	0.76	ug/L			10/31/24 23:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 23:20	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 23:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 23:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 23:20	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 23:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 23:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 23:20	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 23:20	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-FB-241028

Lab Sample ID: 480-224896-6

Date Collected: 10/28/24 10:50

Matrix: Water

Date Received: 10/28/24 15:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		10/31/24 23:20	1
4-Bromofluorobenzene (Surr)	90		73 - 120		10/31/24 23:20	1
Toluene-d8 (Surr)	94		80 - 120		10/31/24 23:20	1
Dibromofluoromethane (Surr)	91		75 - 123		10/31/24 23:20	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.80		0.20	0.10	ug/L		10/29/24 14:06	10/30/24 18:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	44		15 - 110				10/29/24 14:06	10/30/24 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0048	J B	0.010	0.0041	mg/L			10/30/24 10:08	1

Client Sample ID: BRNY-GW-EB-241028

Lab Sample ID: 480-224896-7

Date Collected: 10/28/24 11:30

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/24 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/24 23:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/24 23:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/24 23:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/24 23:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/24 23:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/24 23:43	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			10/31/24 23:43	1
Acrolein	ND		20	0.91	ug/L			10/31/24 23:43	1
Acrylonitrile	ND		5.0	0.83	ug/L			10/31/24 23:43	1
Benzene	ND		1.0	0.41	ug/L			10/31/24 23:43	1
Bromoform	ND		1.0	0.26	ug/L			10/31/24 23:43	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/24 23:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/24 23:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/24 23:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/24 23:43	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/24 23:43	1
Chloroform	0.89	J	1.0	0.34	ug/L			10/31/24 23:43	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/24 23:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/24 23:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/24 23:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/24 23:43	1
Methylene Chloride	0.92	J B	1.0	0.44	ug/L			10/31/24 23:43	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/31/24 23:43	1
o-Xylene	ND		1.0	0.76	ug/L			10/31/24 23:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/24 23:43	1
Toluene	ND		1.0	0.51	ug/L			10/31/24 23:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/24 23:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/24 23:43	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/24 23:43	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-EB-241028

Lab Sample ID: 480-224896-7

Date Collected: 10/28/24 11:30

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/24 23:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/24 23:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		10/31/24 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		10/31/24 23:43	1
4-Bromofluorobenzene (Surr)	86		73 - 120		10/31/24 23:43	1
Toluene-d8 (Surr)	94		80 - 120		10/31/24 23:43	1
Dibromofluoromethane (Surr)	90		75 - 123		10/31/24 23:43	1

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/29/24 14:06	10/30/24 19:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	40		15 - 110	10/29/24 14:06	10/30/24 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0041	J E	0.010	0.0041	mg/L			10/30/24 10:11	1

Client Sample ID: BRNY-GW-TB-241022

Lab Sample ID: 480-224896-8

Date Collected: 10/22/24 00:00

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/01/24 00:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/24 00:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/24 00:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/01/24 00:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/01/24 00:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/01/24 00:06	1
2-Chloroethyl vinyl ether	R ND		5.0	0.96	ug/L			11/01/24 00:06	1
Acrolein	ND		20	0.91	ug/L			11/01/24 00:06	1
Acrylonitrile	ND		5.0	0.83	ug/L			11/01/24 00:06	1
Benzene	ND		1.0	0.41	ug/L			11/01/24 00:06	1
Bromoform	ND		1.0	0.26	ug/L			11/01/24 00:06	1
Bromomethane	ND		1.0	0.69	ug/L			11/01/24 00:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/01/24 00:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/01/24 00:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroethane	ND		1.0	0.32	ug/L			11/01/24 00:06	1
Chloroform	ND		1.0	0.34	ug/L			11/01/24 00:06	1
Chloromethane	ND		1.0	0.35	ug/L			11/01/24 00:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/01/24 00:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/01/24 00:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/01/24 00:06	1
Methylene Chloride	0.47	J E	1.0	0.44	ug/L			11/01/24 00:06	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: 3M-Brockport

Job ID: 480-224896-1

Client Sample ID: BRNY-GW-TB-241022

Lab Sample ID: 480-224896-8

Date Collected: 10/22/24 00:00

Matrix: Water

Date Received: 10/28/24 15:35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/01/24 00:06	1
o-Xylene	ND		1.0	0.76	ug/L			11/01/24 00:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/01/24 00:06	1
Toluene	ND		1.0	0.51	ug/L			11/01/24 00:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/01/24 00:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/01/24 00:06	1
Trichloroethene	ND		1.0	0.46	ug/L			11/01/24 00:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/01/24 00:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/01/24 00:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		11/01/24 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		11/01/24 00:06	1
4-Bromofluorobenzene (Surr)	88		73 - 120		11/01/24 00:06	1
Toluene-d8 (Surr)	95		80 - 120		11/01/24 00:06	1
Dibromofluoromethane (Surr)	90		75 - 123		11/01/24 00:06	1

3M Company

Data Usability Summary Report

Brockport, New York

Per- and Poly-fluoroalkyl Substances (PFAS) Analysis

SDG # 410-194314-1

Analysis Performed By:
Eurofins Test America
Lancaster, Pennsylvania

Report # 57840R
Review Level: Tier III
Project: 30208031.00001

DATA USABILITY SUMMARY REPORT

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 410-194314-1 for samples collected in association with the 3M Site in Brockport, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
					PFAS
BRNY-GW-AGM1SB-0-241028	410-194314-1	Water	10/28/2024		X
BRNY-GW-FB-241028	410-194314-2	Water	10/28/2024		X
BRNY-GW-TB-241021	410-194314-3	Water	10/21/2024		X
BRNY-GW-EB-241028	410-194314-4	Water	10/28/2024		X

Notes:

PFAS = per-polyfluoroalkyl substances

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) 4th Draft Method 1633. Data were reviewed in accordance with USEPA Method 1633, Department of Defense (DoD) Quality Systems Manual (QSM) 5.4, DoD General Data Validation Guidelines, November 2019, DoD Final Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24, November 2022, and in addition and in addition, USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999 as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified, and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Per DoD General Data Validation Guidelines November 2019 Revision 1 Section 4.8 states; "The following provides a brief explanation of the DoD data validation qualifiers assigned to results during the data review process by a data validator. The reviewer should use these qualifiers, as applicable, unless other data qualifiers are specified in a project related document, such as a QAPP. If other qualifiers are used, a complete explanation of those qualifiers should accompany the data validation report." Below are the qualifier codes that may be applied in this validation report:

- Concentration (C) Qualifiers
 - U The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - 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.
 - UJ The analyte was not detected and was reported as less than the LOD. However, the associated numerical value is approximate.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

A fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Per- and polyfluoroalkyl Substances (PFAS) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
USEPA method 1633/ DoD QSM 5.4	Water	28 days to extraction; 28 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, instrument, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Instrument blanks measure carryover in the instrument from one sample to another. Method blanks measure laboratory contamination. Equipment rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Calibration

Mass calibration and system performance were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The percent relative standard deviation (%RSD) of the response factors (RF) must be less than 20%, or for linear calibration, $r^2 \geq 0.99$. The initial calibration verification (ICV) standard recoveries must be within 70-130% of their true value.

All compounds associated with initial calibration, and ICV were within the control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit of 30%.

All compounds associated with the continuing calibration verification (CCV) standards were within the control limits.

4.3 Instrument Sensitivity Check (ISC)

The ISC concentration must be at the LOQ. All target compounds associated with the ISC must exhibit a percent recovery (%R) of 70 to 130%.

All compounds associated with ISC recoveries were within control limits.

4.4 Ion Transitions

Quantitation of analytes must use the ion transitions documented in Table 7 of EPA Method 1633.

The ion transitions were as specified in the method.

5. Extracted Internal Standards (EIS)

Labeled standards must be added to all field samples and QC samples prior to extraction. EIS recoveries must be within limits specified in the QAPP or laboratory calculated limits, of the ICAL midpoint standard area or area measured in the initial CCV on days when ICAL not performed. If EIS percent recoveries are out of specification with no evidence of re-extraction (except for sample used for MS/MSD analysis) and reanalysis, justification should be noted in the laboratory case narrative.

All EIS recoveries were within control limits.

6. Non-Extracted Internal Standards (NIS)

The NIS areas in the field samples and QC samples must be within 50 to 200% of the area of the calibration verification standard run at the beginning of the analytical sequence. If any NIS peak area is out of specification, then a re-extraction (except for sample used for MS/MSD analysis) and reanalysis should be performed and reported. The laboratory should have reported the first run if the second was still unsuccessful. If the second run did not confirm the failure, it should have been reported.

All NIS recoveries were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the within the 4th draft method EPA 1633 acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be $\leq 30\%$.

Note: Recovery criteria for MS/MSD are applicable where the spike concentration is at least 4 times greater than the native analyte concentration. If this is not the case, the MS and MSD percent recovery criteria do not apply.

The MS/MSD analysis was not performed on samples from this SDG.

8. Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) and Low-Level (LLLCS/LLLCSD) Analysis

The LCS/LCSD and LLLCS/LLLCSD analyses are used to assess the accuracy of the analytical method independent of matrix interferences. The LLLCS is spiked at two times the LOQ to verify the LOQ, and the LCS is spiked at the midpoint of the calibration range. The compounds associated with the LCS/LCSD and LLLCS/LLLCSD analyses for aqueous matrix must exhibit a percent recovery within the 4th draft method EPA 1633 Table 5 and 5a acceptance limits. Limits that are not specified in these tables will be laboratory calculated limits.

NOTE: LCS and LLLCS are OPR and LLOPR, respectively, method EPA 1633.

DATA USABILITY SUMMARY REPORT

All compounds associated with the LCS/LCSD and LLLCS analyses exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soils is applied to the RPD between the parent sample and the field duplicate when both results are greater than 5 times the LOQ. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the LOQ, a control limit of absolute difference less than or equal to two times the LOQ is applied for water matrices and three times the LOQ for soil matrices.

A field duplicate sample was not collected for the samples from this SDG.

10. Compound Identification

PFC analytes are identified by using the compound's ion abundance ratios, signal-to-noise values, and relative retention times. For analytes that are reported at concentrations at or greater than the LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the mid-point initial calibration standard. For analytes that are reported at a concentration between the method detection limit (MDL) and LOQ, the ion ratio of the analyte should be within 50-150% of the ion ratio of the analyte observed in the initial daily continuing calibration verification standard.

All identified compounds met method criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for PFAS

PFAS: EPA 1633/DoD QSM 5.4	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)						
Stage 2a Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks		X		X		
C. Field blanks		X		X		
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate (LCSD) %R		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS) %R	X				X	
Matrix Spike Duplicate (MSD) %R	X				X	
MS/MSD Precision (RPD)	X				X	
Field Duplicate (RPD)	X				X	
Extracted Internal Standard %R		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Stage 2b Validation						
Instrument tune and performance check		X		X		
Initial calibration %RSDs		X		X		
Initial calibration verification %R		X		X		
Continuing calibration %Ds		X		X		
Instrument sensitivity check		X		X		
Ion transitions used		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Ion Ratio %R		X		X		
E. Transcription/calculations acceptable		X		X		
F. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

%RSD Relative standard deviation

%R Percent recovery

DATA USABILITY SUMMARY REPORT

PFAS: EPA 1633/DoD QSM 5.4	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY (LC/MS/MS)

RPD Relative percent difference
%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹	Noncompliance
					PFAS	
410-194314-1	10/28/2024	SW846	BRNY-GW-AGM1SB-0-241028	Water	Yes	--
	10/28/2024	SW846	BRNY-GW-FB-241028	Water	Yes	--
	10/21/2024	SW846	BRNY-GW-TB-241021	Water	Yes	--
	10/28/2024	SW846	BRNY-GW-EB-241028	Water	Yes	--

Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Allana Lopez

SIGNATURE: 

DATE: January 29, 2025

PEER REVIEW: Rachelle Borne

DATE: February 10, 2025

Chain of Custody Corrected Sample Analysis Data Sheets

Definitions/Glossary

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-AGM1SB-0-241028

Lab Sample ID: 410-194314-1

Date Collected: 10/28/24 10:45

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		3.3	0.92	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.50	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.67	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorooctanoic acid (PFOA)	2.2		1.7	0.75	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorooctanesulfonic acid (PFOS)	1.0	J	1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.50	ng/L		10/31/24 08:55	11/02/24 21:51	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 21:51	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	0.94	J	3.3	0.83	ng/L		10/31/24 08:55	11/02/24 21:51	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 21:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 21:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.62	ng/L		10/31/24 08:55	11/02/24 21:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 21:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 21:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.3	2.3	ng/L		10/31/24 08:55	11/02/24 21:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 21:51	1

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-AGM1SB-0-241028

Lab Sample ID: 410-194314-1

Date Collected: 10/28/24 10:45

Matrix: Water

Date Received: 10/29/24 10:00

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	99.7		5 - 130	10/31/24 08:55	11/02/24 21:51	1
13C5 PFPeA	83.5		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C5 PFHxA	98.3		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C4 PFHpA	86.7		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C8 PFOA	100		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C9 PFNA	98.7		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C6 PFDA	93.3		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C7 PFUnA	104		30 - 130	10/31/24 08:55	11/02/24 21:51	1
13C2 PFTeDA	81.3		10 - 130	10/31/24 08:55	11/02/24 21:51	1
13C3 PFBS	102		40 - 135	10/31/24 08:55	11/02/24 21:51	1
13C3 PFHxS	97.6		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C8 PFOS	91.1		40 - 130	10/31/24 08:55	11/02/24 21:51	1
13C8 FOSA	95.2		40 - 130	10/31/24 08:55	11/02/24 21:51	1
d3-NMeFOSAA	98.9		40 - 170	10/31/24 08:55	11/02/24 21:51	1
d5-NEtFOSAA	100		25 - 135	10/31/24 08:55	11/02/24 21:51	1
M2-4:2 FTS	198		40 - 200	10/31/24 08:55	11/02/24 21:51	1
M2-6:2 FTS	152		40 - 200	10/31/24 08:55	11/02/24 21:51	1
M2-8:2 FTS	128		40 - 300	10/31/24 08:55	11/02/24 21:51	1
13C3 HFPO-DA	88.2		40 - 130	10/31/24 08:55	11/02/24 21:51	1
d7-N-MeFOSE-M	77.1		10 - 130	10/31/24 08:55	11/02/24 21:51	1
d9-N-EtFOSE-M	73.7		10 - 130	10/31/24 08:55	11/02/24 21:51	1
d5-NEtPFOSA	80.2		10 - 130	10/31/24 08:55	11/02/24 21:51	1
d3-NMePFOSA	79.0		10 - 130	10/31/24 08:55	11/02/24 21:51	1
13C2 PFDoA	97.4		10 - 130	10/31/24 08:55	11/02/24 21:51	1

Client Sample ID: BRNY-GW-FB-241028

Lab Sample ID: 410-194314-2

Date Collected: 10/28/24 10:50

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanoic acid (PFBA)	ND		3.3	0.92	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.50	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.67	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.75	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.50	ng/L		10/31/24 08:55	11/02/24 22:05	1

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-FB-241028

Lab Sample ID: 410-194314-2

Date Collected: 10/28/24 10:50

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 22:05	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 22:05	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 22:05	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 22:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.63	ng/L		10/31/24 08:55	11/02/24 22:05	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7	0.42	ng/L		10/31/24 08:55	11/02/24 22:05	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.3	0.83	ng/L		10/31/24 08:55	11/02/24 22:05	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.3	2.3	ng/L		10/31/24 08:55	11/02/24 22:05	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.3	2.1	ng/L		10/31/24 08:55	11/02/24 22:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99.0		5 - 130				10/31/24 08:55	11/02/24 22:05	1
13C5 PFPeA	89.8		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C5 PFHxA	98.6		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C4 PFHpA	86.8		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C8 PFOA	97.4		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C9 PFNA	97.9		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C6 PFDA	93.6		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C7 PFUnA	97.5		30 - 130				10/31/24 08:55	11/02/24 22:05	1
13C2 PFTeDA	82.5		10 - 130				10/31/24 08:55	11/02/24 22:05	1
13C3 PFBS	98.5		40 - 135				10/31/24 08:55	11/02/24 22:05	1
13C3 PFHxS	96.3		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C8 PFOS	91.7		40 - 130				10/31/24 08:55	11/02/24 22:05	1
13C8 FOSA	84.2		40 - 130				10/31/24 08:55	11/02/24 22:05	1
d3-NMeFOSAA	89.5		40 - 170				10/31/24 08:55	11/02/24 22:05	1
d5-NEtFOSAA	93.3		25 - 135				10/31/24 08:55	11/02/24 22:05	1
M2-4:2 FTS	116		40 - 200				10/31/24 08:55	11/02/24 22:05	1
M2-6:2 FTS	112		40 - 200				10/31/24 08:55	11/02/24 22:05	1
M2-8:2 FTS	106		40 - 300				10/31/24 08:55	11/02/24 22:05	1
13C3 HFPO-DA	94.1		40 - 130				10/31/24 08:55	11/02/24 22:05	1
d7-N-MeFOSE-M	69.6		10 - 130				10/31/24 08:55	11/02/24 22:05	1

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-FB-241028

Lab Sample ID: 410-194314-2

Date Collected: 10/28/24 10:50

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	63.4		10 - 130	10/31/24 08:55	11/02/24 22:05	1
d5-NEtPFOSA	69.0		10 - 130	10/31/24 08:55	11/02/24 22:05	1
d3-NMePFOSA	72.3		10 - 130	10/31/24 08:55	11/02/24 22:05	1
13C2 PFDaA	91.7		10 - 130	10/31/24 08:55	11/02/24 22:05	1

Client Sample ID: BRNY-GW-TB-241021

Lab Sample ID: 410-194314-3

Date Collected: 10/21/24 00:00

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.7	1.0	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.56	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.74	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.84	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.74	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.56	ng/L		10/31/24 08:55	11/02/24 22:18	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.7	0.93	ng/L		10/31/24 08:55	11/02/24 22:18	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.7	0.93	ng/L		10/31/24 08:55	11/02/24 22:18	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.7	0.93	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.3	2.3	ng/L		10/31/24 08:55	11/02/24 22:18	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.3	2.3	ng/L		10/31/24 08:55	11/02/24 22:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.70	ng/L		10/31/24 08:55	11/02/24 22:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-TB-241021

Lab Sample ID: 410-194314-3

Date Collected: 10/21/24 00:00

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47	ng/L		10/31/24 08:55	11/02/24 22:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.7	0.93	ng/L		10/31/24 08:55	11/02/24 22:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.3	2.6	ng/L		10/31/24 08:55	11/02/24 22:18	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.3	2.3	ng/L		10/31/24 08:55	11/02/24 22:18	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99.7		5 - 130				10/31/24 08:55	11/02/24 22:18	1
13C5 PFPeA	83.7		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C5 PFHxA	95.3		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C4 PFHpA	83.0		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C8 PFOA	97.4		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C9 PFNA	94.8		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C6 PFDA	90.8		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C7 PFUnA	90.5		30 - 130				10/31/24 08:55	11/02/24 22:18	1
13C2 PFTeDA	78.8		10 - 130				10/31/24 08:55	11/02/24 22:18	1
13C3 PFBS	100		40 - 135				10/31/24 08:55	11/02/24 22:18	1
13C3 PFHxS	95.4		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C8 PFOS	91.4		40 - 130				10/31/24 08:55	11/02/24 22:18	1
13C8 FOSA	85.4		40 - 130				10/31/24 08:55	11/02/24 22:18	1
d3-NMeFOSAA	92.9		40 - 170				10/31/24 08:55	11/02/24 22:18	1
d5-NEtFOSAA	92.4		25 - 135				10/31/24 08:55	11/02/24 22:18	1
M2-4:2 FTS	116		40 - 200				10/31/24 08:55	11/02/24 22:18	1
M2-6:2 FTS	109		40 - 200				10/31/24 08:55	11/02/24 22:18	1
M2-8:2 FTS	103		40 - 300				10/31/24 08:55	11/02/24 22:18	1
13C3 HFPO-DA	88.3		40 - 130				10/31/24 08:55	11/02/24 22:18	1
d7-N-MeFOSE-M	71.6		10 - 130				10/31/24 08:55	11/02/24 22:18	1
d9-N-EtFOSE-M	71.3		10 - 130				10/31/24 08:55	11/02/24 22:18	1
d5-NEtPFOSA	70.1		10 - 130				10/31/24 08:55	11/02/24 22:18	1
d3-NMePFOSA	74.5		10 - 130				10/31/24 08:55	11/02/24 22:18	1
13C2 PFDoA	88.2		10 - 130				10/31/24 08:55	11/02/24 22:18	1

Client Sample ID: BRNY-GW-EB-241028

Lab Sample ID: 410-194314-4

Date Collected: 10/28/24 11:30

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.3	0.90	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.49	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.66	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.74	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-EB-241028

Lab Sample ID: 410-194314-4

Date Collected: 10/28/24 11:30

Matrix: Water

Date Received: 10/29/24 10:00

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.49	ng/L		10/31/24 08:55	11/02/24 22:32	1
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	ND		3.3	0.82	ng/L		10/31/24 08:55	11/02/24 22:32	1
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	ND		3.3	0.82	ng/L		10/31/24 08:55	11/02/24 22:32	1
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	ND		3.3	0.82	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.2	2.1	ng/L		10/31/24 08:55	11/02/24 22:32	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.2	2.1	ng/L		10/31/24 08:55	11/02/24 22:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.6	0.62	ng/L		10/31/24 08:55	11/02/24 22:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.41	ng/L		10/31/24 08:55	11/02/24 22:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.3	0.82	ng/L		10/31/24 08:55	11/02/24 22:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.2	2.3	ng/L		10/31/24 08:55	11/02/24 22:32	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.2	2.1	ng/L		10/31/24 08:55	11/02/24 22:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94.5		5 - 130	10/31/24 08:55	11/02/24 22:32	1
13C5 PFPeA	83.5		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C5 PFHxA	93.1		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C4 PFHpA	81.3		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C8 PFOA	91.7		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C9 PFNA	94.7		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C6 PFDA	91.3		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C7 PFUnA	93.3		30 - 130	10/31/24 08:55	11/02/24 22:32	1

Client Sample Results

Client: 3M Company
Project/Site: 3M-Brockport

Job ID: 410-194314-1

Client Sample ID: BRNY-GW-EB-241028

Lab Sample ID: 410-194314-4

Date Collected: 10/28/24 11:30

Matrix: Water

Date Received: 10/29/24 10:00

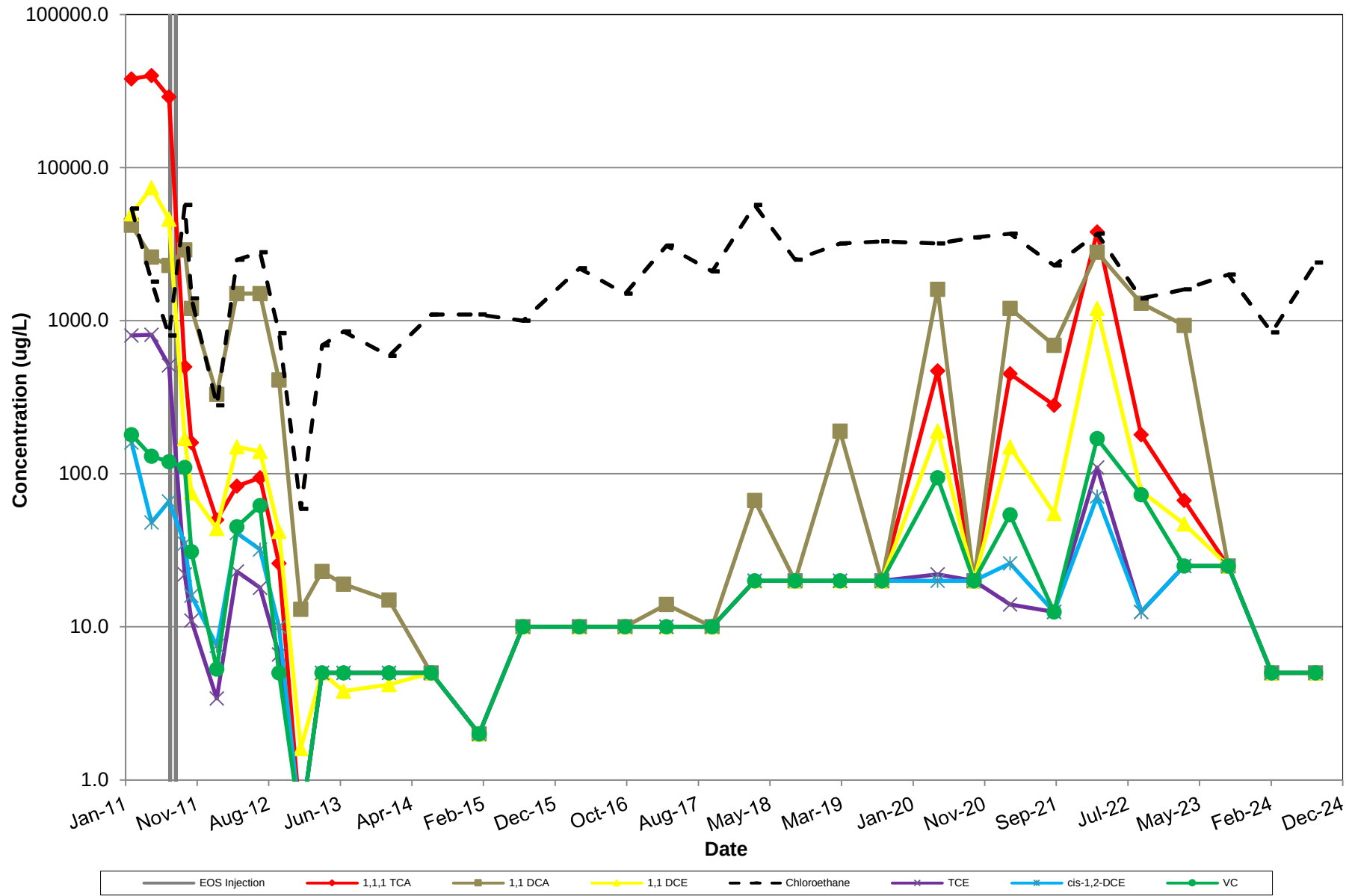
Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	77.7		10 - 130	10/31/24 08:55	11/02/24 22:32	1
13C3 PFBS	96.7		40 - 135	10/31/24 08:55	11/02/24 22:32	1
13C3 PFHxS	93.5		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C8 PFOS	87.9		40 - 130	10/31/24 08:55	11/02/24 22:32	1
13C8 FOSA	81.1		40 - 130	10/31/24 08:55	11/02/24 22:32	1
d3-NMeFOSAA	88.7		40 - 170	10/31/24 08:55	11/02/24 22:32	1
d5-NEtFOSAA	89.7		25 - 135	10/31/24 08:55	11/02/24 22:32	1
M2-4:2 FTS	107		40 - 200	10/31/24 08:55	11/02/24 22:32	1
M2-6:2 FTS	111		40 - 200	10/31/24 08:55	11/02/24 22:32	1
M2-8:2 FTS	101		40 - 300	10/31/24 08:55	11/02/24 22:32	1
13C3 HFPO-DA	88.2		40 - 130	10/31/24 08:55	11/02/24 22:32	1
d7-N-MeFOSE-M	73.9		10 - 130	10/31/24 08:55	11/02/24 22:32	1
d9-N-EtFOSE-M	69.5		10 - 130	10/31/24 08:55	11/02/24 22:32	1
d5-NEtPFOSA	67.8		10 - 130	10/31/24 08:55	11/02/24 22:32	1
d3-NMePFOSA	67.5		10 - 130	10/31/24 08:55	11/02/24 22:32	1
13C2 PFDoA	82.6		10 - 130	10/31/24 08:55	11/02/24 22:32	1

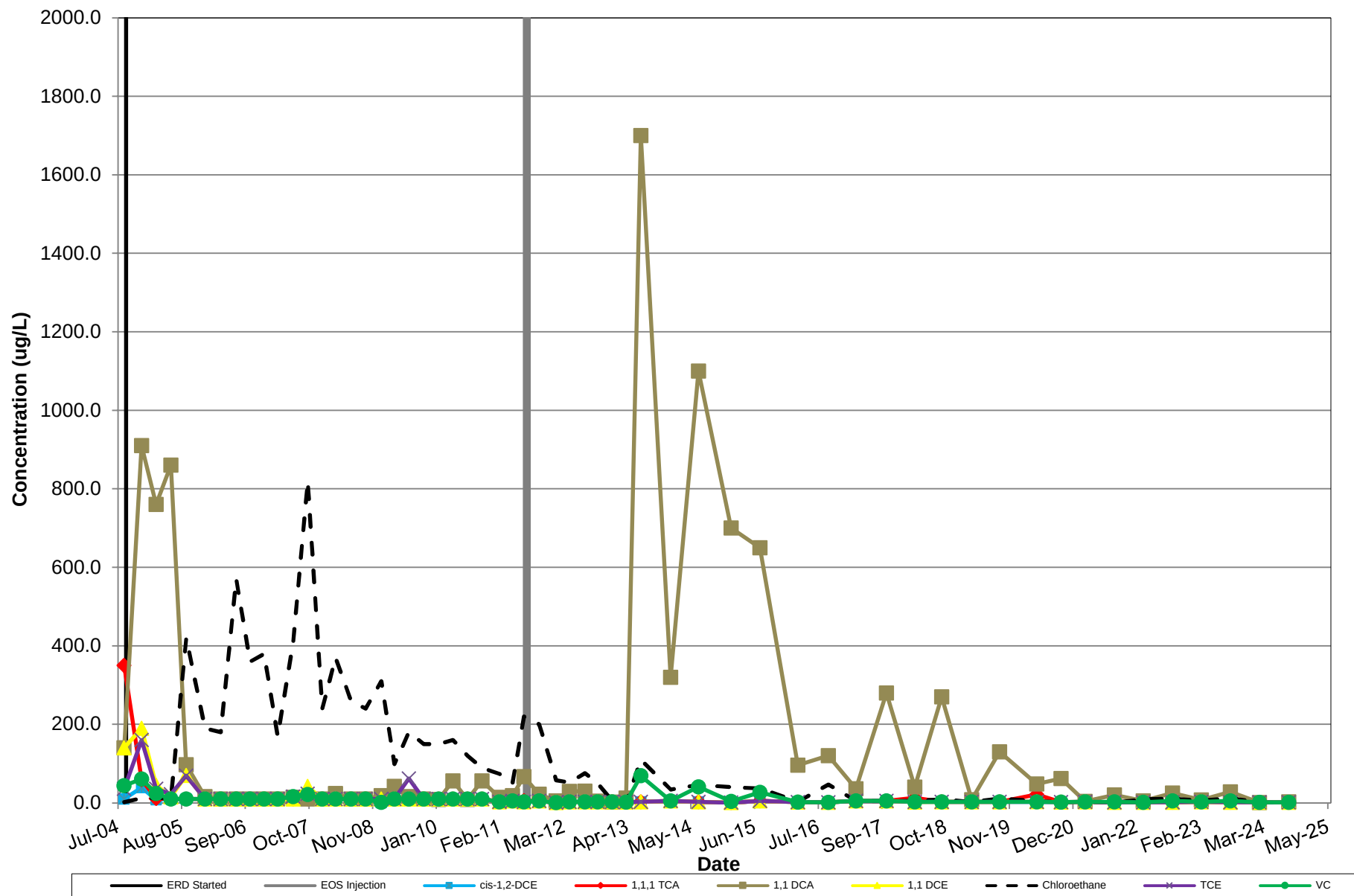
Appendix E

Trend Analysis

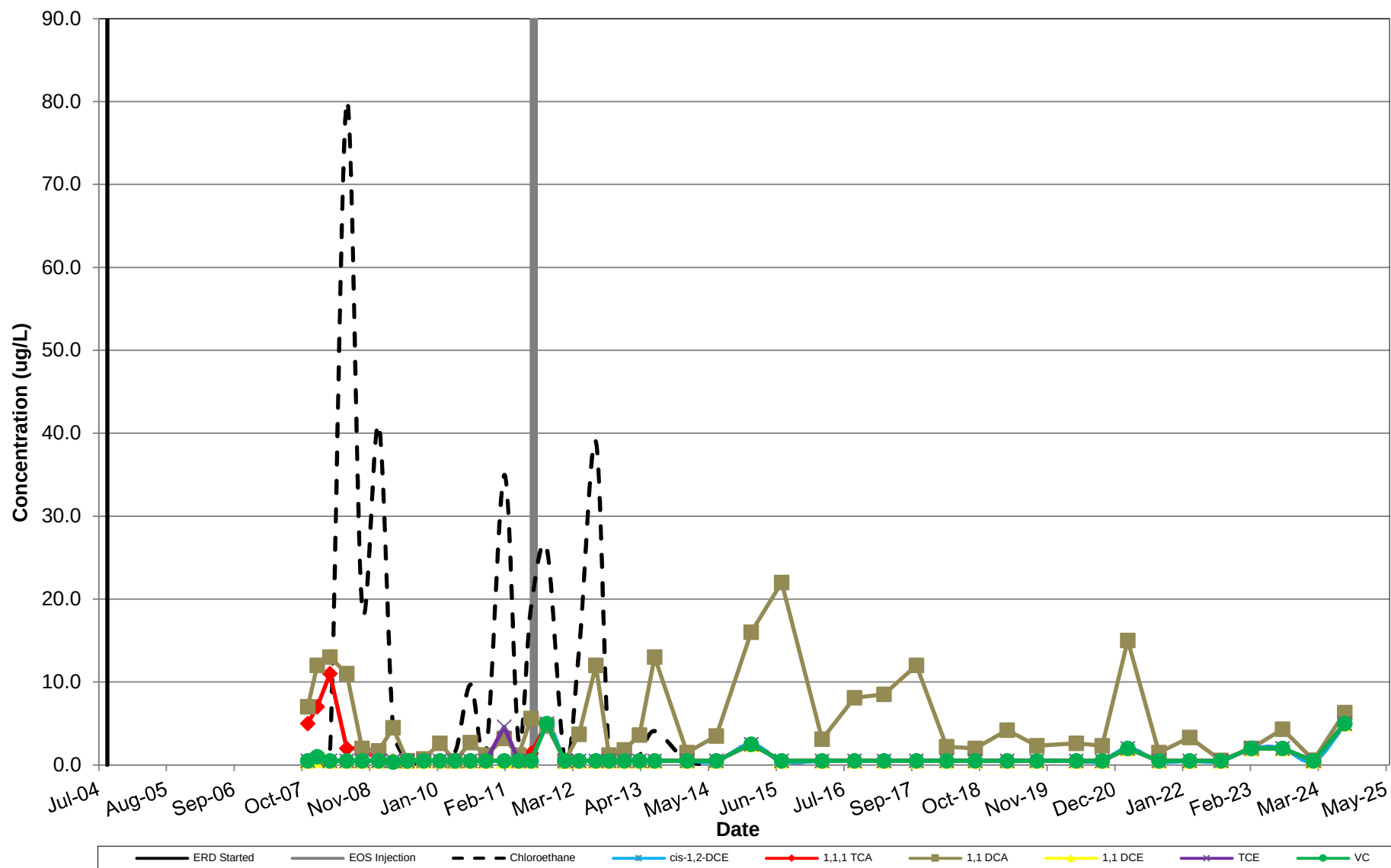
AGM1-OB VOCs: Concentration vs. Time



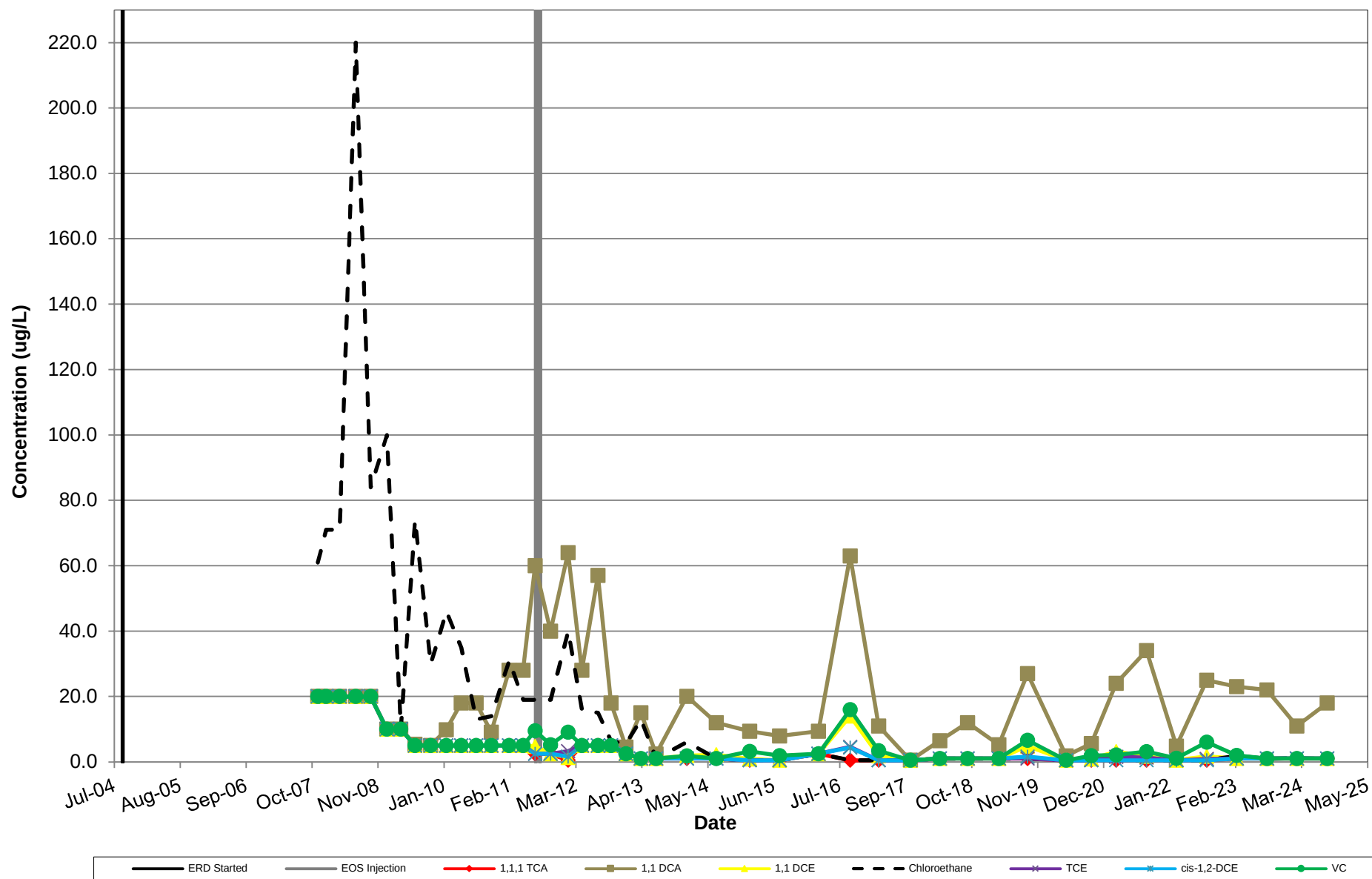
AGM3-OB VOCs: Concentration vs. Time



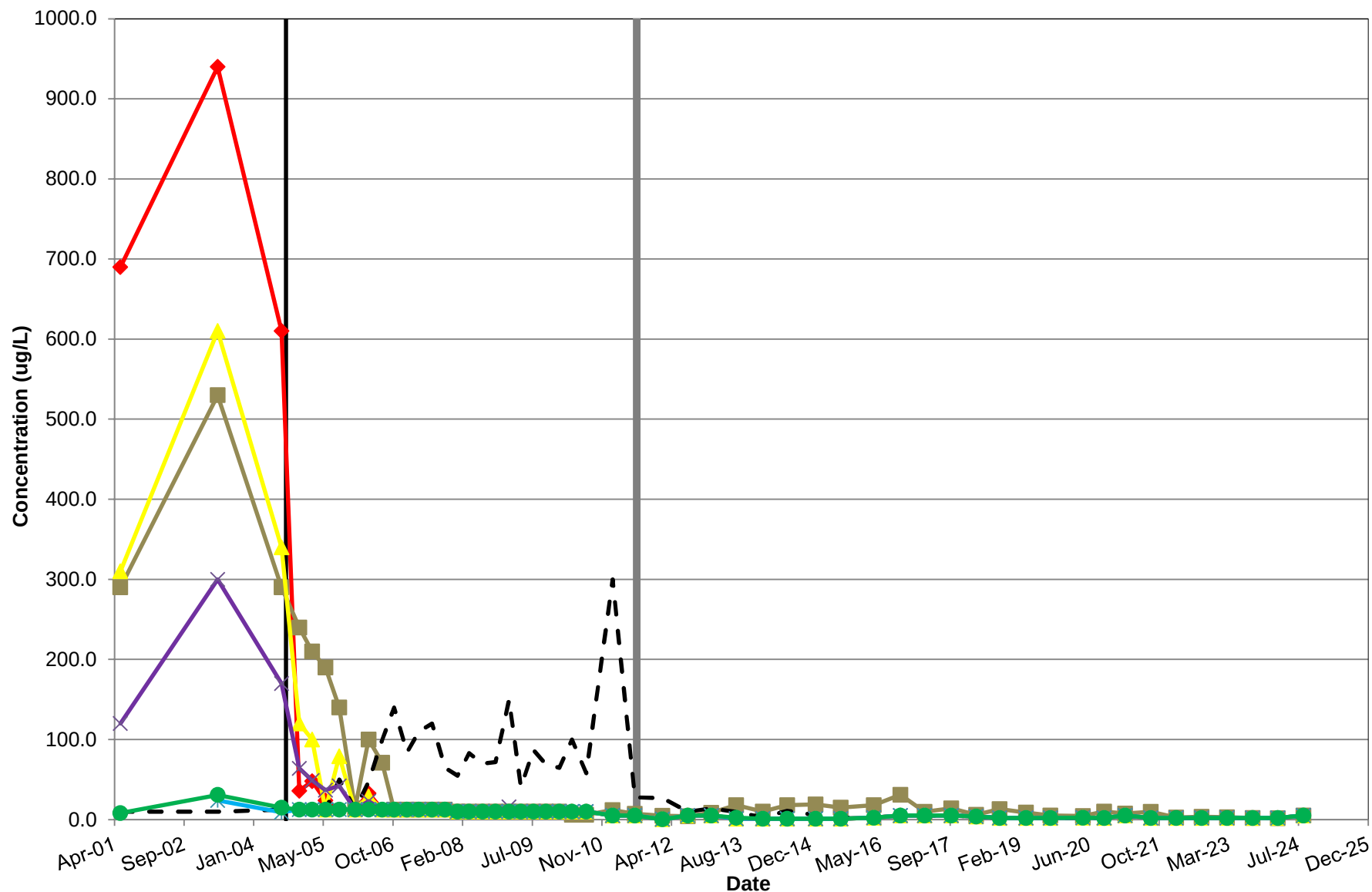
AGM7-OB
VOCs: Concentration vs. Time



AGM8-OB
VOCs: Concentration vs. Time

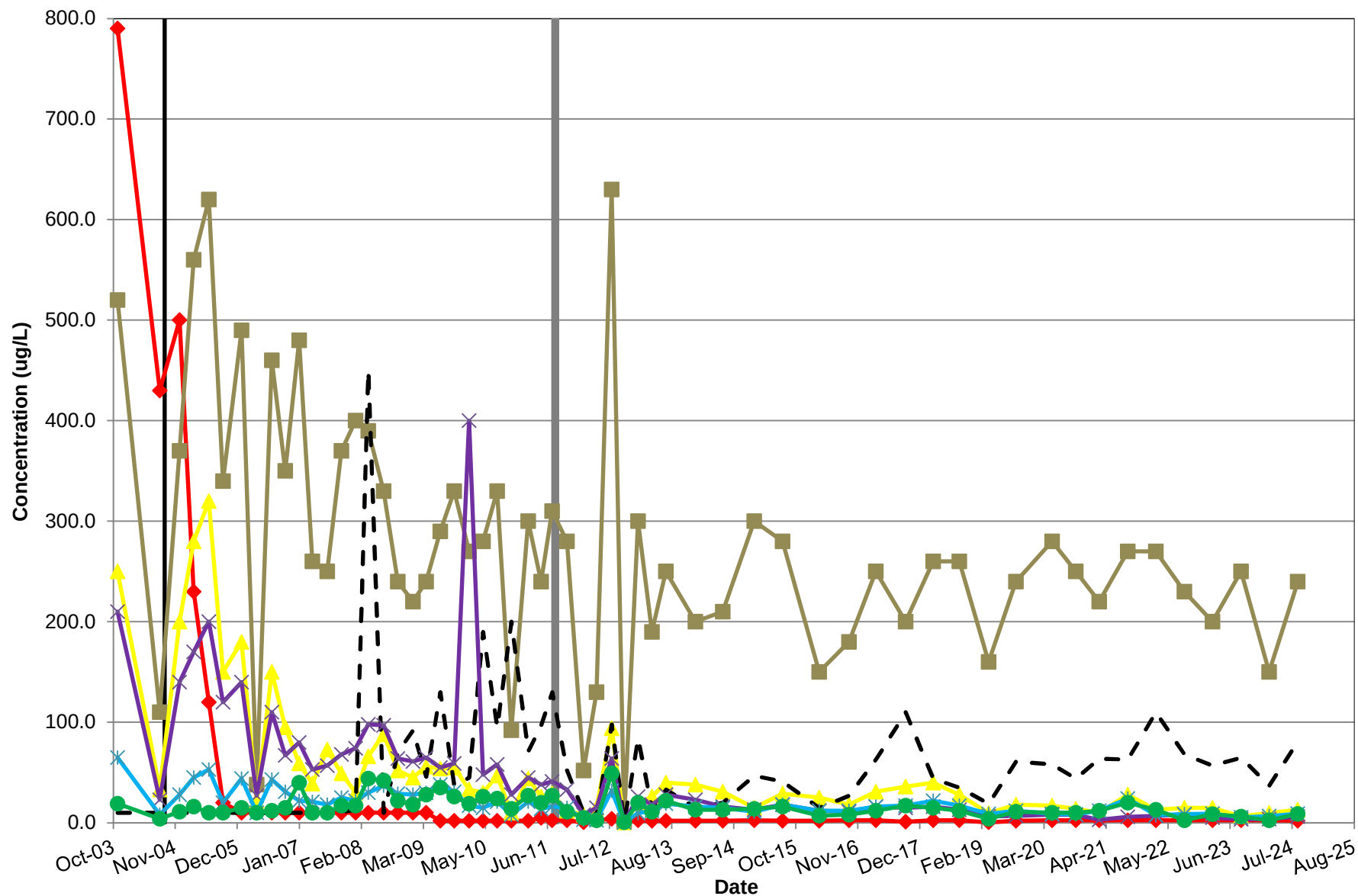


MW-99G(S) VOCs: Concentration vs. Time



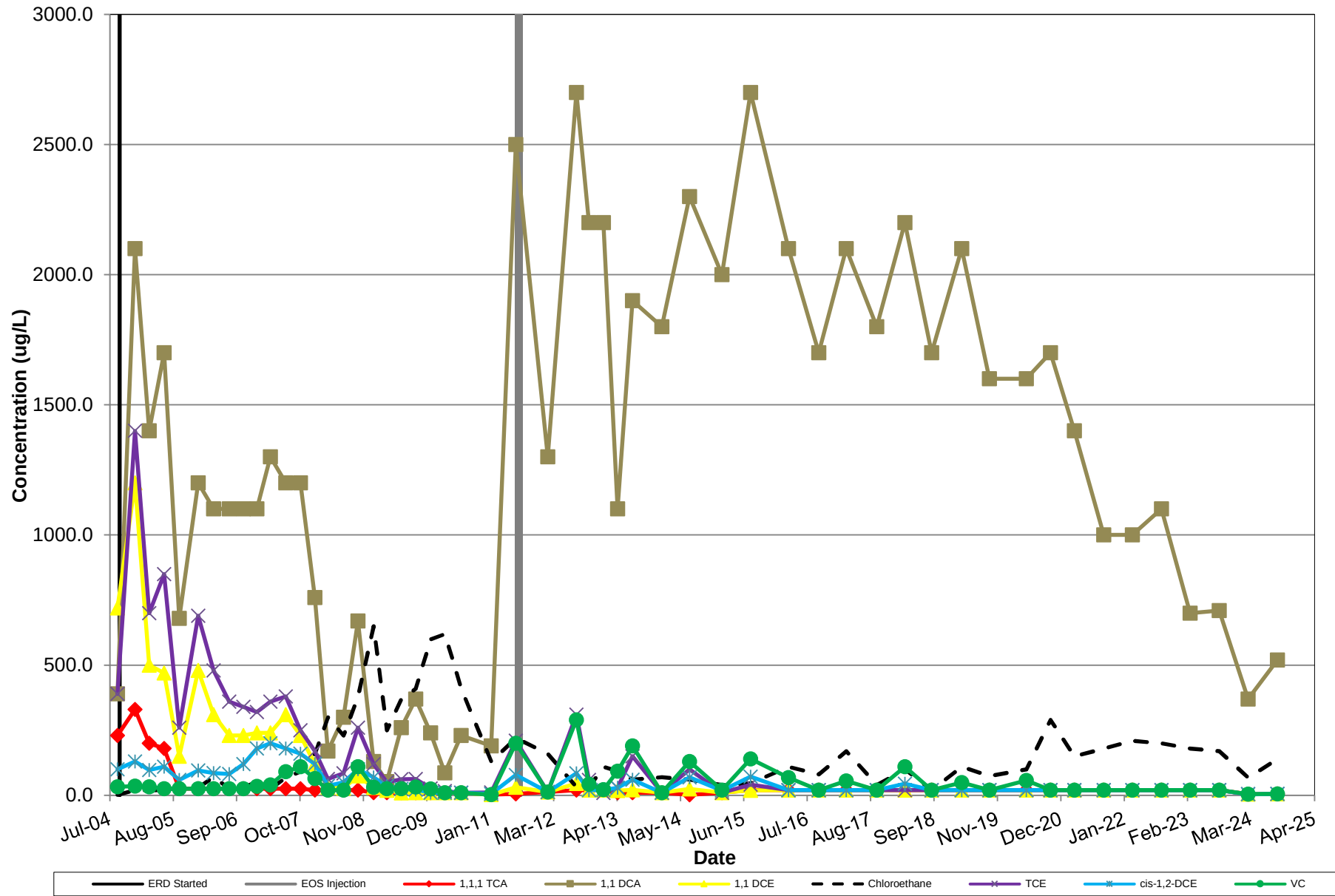
— ERD Started — EOS Injection — 1,1,1 TCA — 1,1 DCA — 1,1 DCE - - - Chloroethane — TCE — cis-1,2-DCE — VC

AGM1-SB
VOCs: Concentration vs. Time

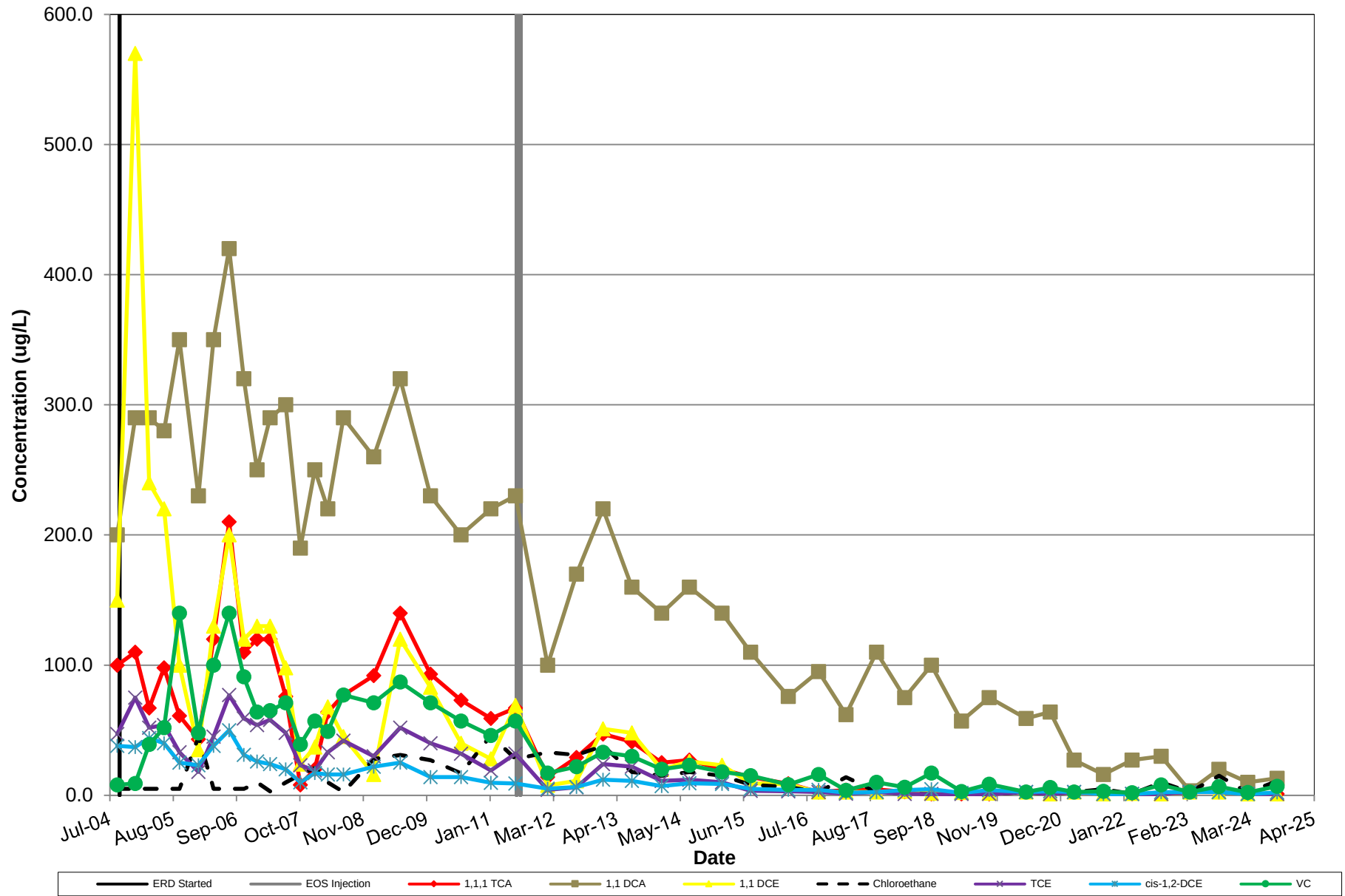


— ERD Started — EOS Injection — 1,1,1 TCA — 1,1 DCA — 1,1 DCE - - - Chloroethane - x - TCE - * - cis-1,2-DCE - o - VC

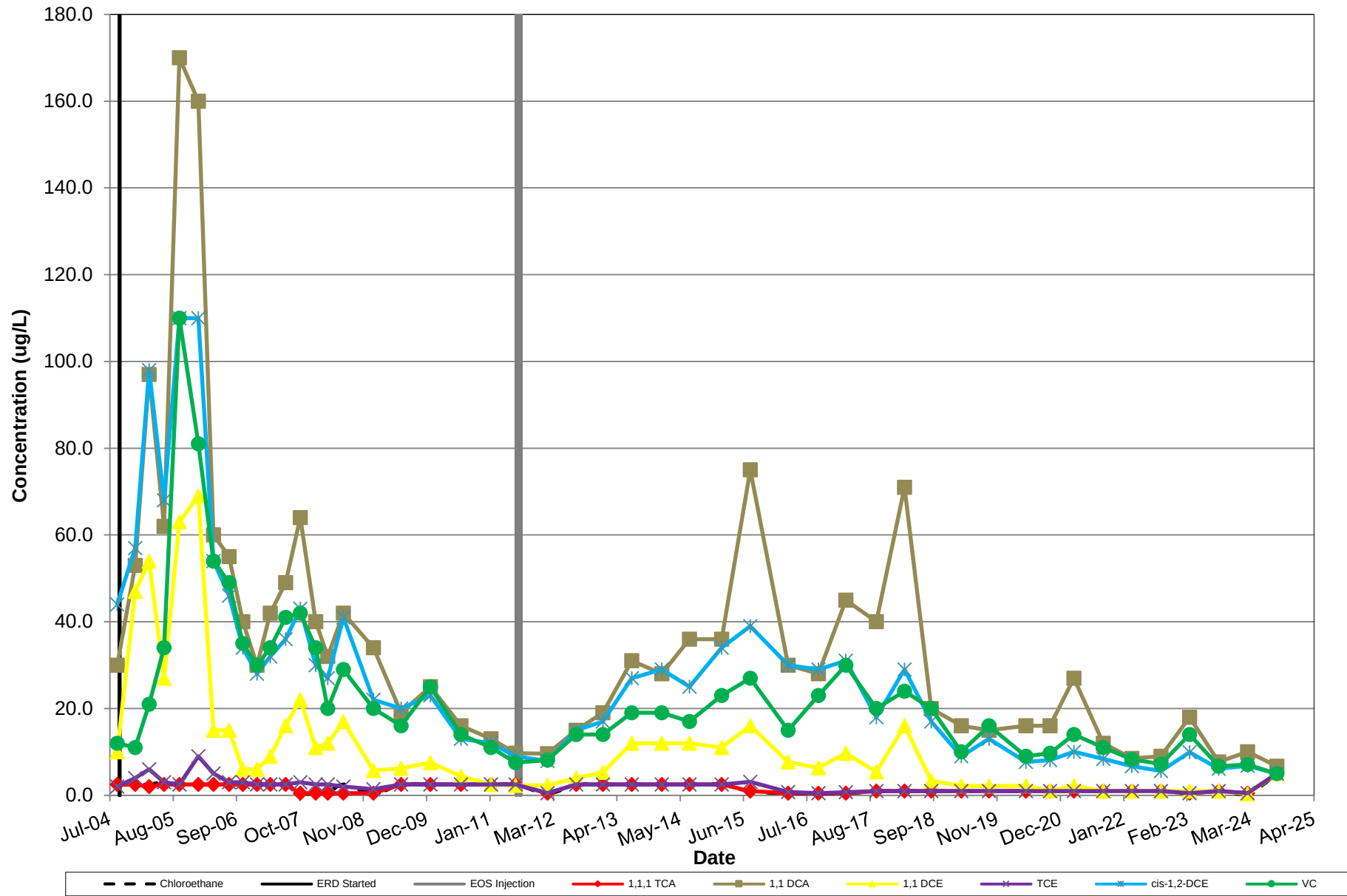
AGM3-SB
VOCs: Concentration vs. Time



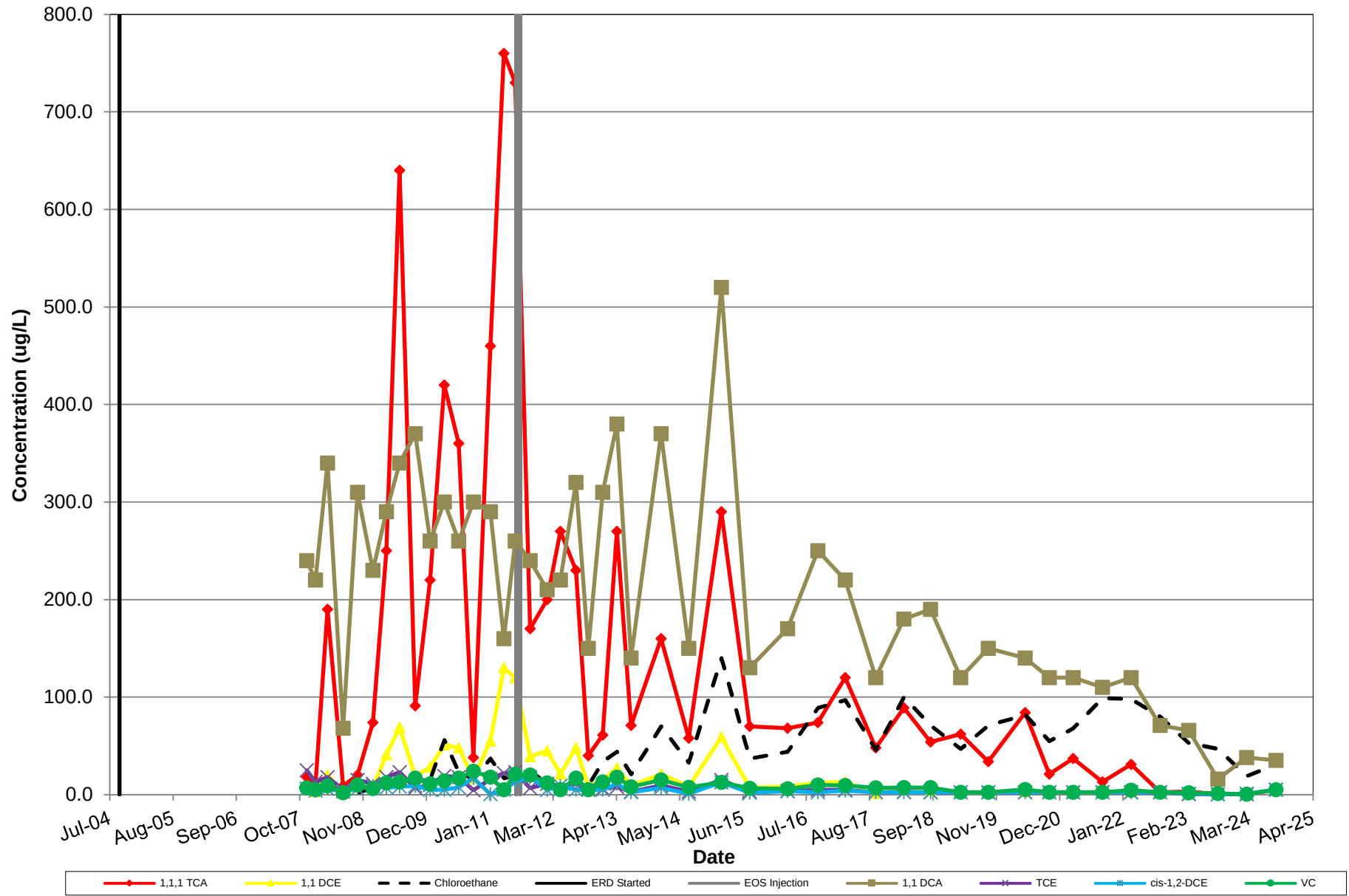
AGM5-SB
VOCs: Concentration vs. Time



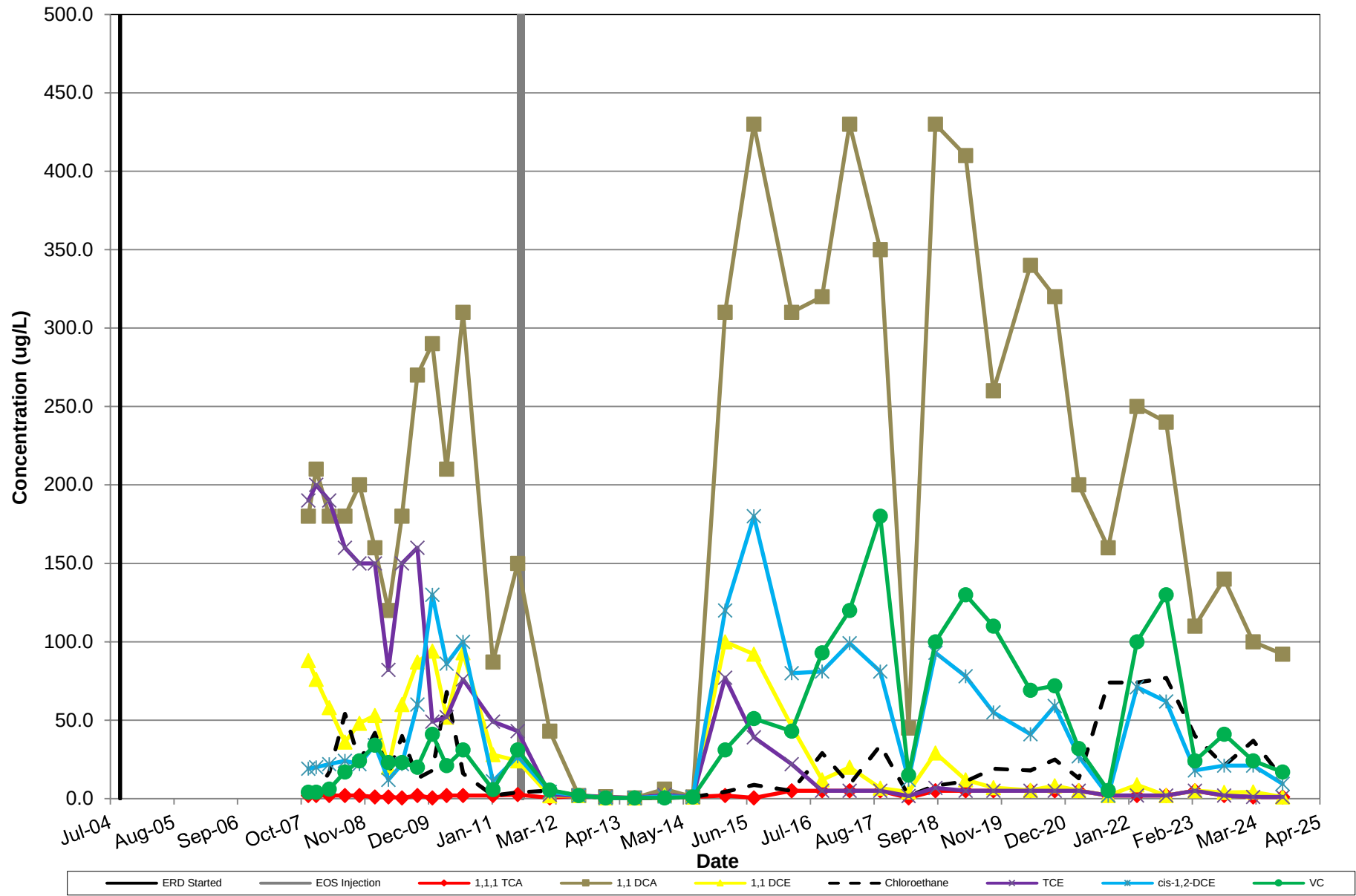
AGM6-SB
VOCs: Concentration vs. Time



AGM7-SB
VOCs: Concentration vs. Time



AGM8-SB
VOCs: Concentration vs. Time



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