Stephanie Fitzgerald
New York State Department of Environmental Conservation
Division of Environmental Remediation
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Syracuse NY 13204-2400

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Subject:
2024 Q2 Monitoring Report
Brewerton Jack's Cleaners
NYSDEC Site No. 734112
Contract No. D009804-26

Date:
August 28, 2024

Contact:
Stefan Bagnato

Phone:
518-250-7300

Email:
Stefan.Bagnato@arcadis.com

Our ref:
30135043

Dear Ms. Fitzgerald:

Arcadis of New York, Inc. (Arcadis) has prepared this letter report to present the results of the March 2024 groundwater monitoring conducted at the above-referenced site with respect to the effectiveness of the in-situ enhanced bioremediation remedy previously implemented. This report presents the sampling methodology, sampling results, and evaluation of these results.

Background

The Brewerton Jack's Cleaners Site consists of a retail dry cleaning facility located at 9628 Brewerton Road, Brewerton, New York. The Site was developed with the current structure in approximately 1945. The Site was historically utilized as a gasoline station along with the adjacent property to the south in the 1950s. The Site has been utilized as a dry cleaning facility since approximately 1972. The current layout of the facility and surrounding area are shown on **Figure 1**. A petroleum spill investigation and cleanup of the adjacent property to the south (9626 Brewerton Road) in 2006 and 2007 identified tetrachloroethene (PCE) impacts in soil and groundwater. Based on subsequent investigation, the septic system behind the Jack's Dry Cleaners building was thought to be the source of chlorinated volatile organic compound (CVOC) contamination. As part of an interim remedial measure (IRM) conducted in 2009 during the Remedial Investigation (RI), Jack's Dry Cleaners was connected to the municipal sewer, the septic system was removed, and approximately 172 tons of impacted soil were removed. Subsequent investigations delineated a CVOC groundwater plume extending from the dry cleaner building approximately 500 feet to the southeast.

A Feasibility Study and a Pre-Remedial Design Investigation were completed in 2012 to evaluate natural attenuation processes and potential including

hydrogeologic, geochemical, and microbiological characteristics. Enhanced bioremediation was selected as the remedy for the Site in the 2015 Record of Decision. An injection pilot test was conducted in 2016 to assess flow rates and radius of influence and to develop a full-scale injection plan. The full-scale injection activities took place over two events in 2017 and 2018, utilizing emulsified vegetable oil, deoxygenated water, pH buffer, and *Dehalococcoides* bioaugmentation culture. Two rounds of post-injection groundwater monitoring were conducted in July and December 2019 which showed significant reductions in CVOC concentrations. Quarterly groundwater monitoring conducted under Standby Contract No. D009804-26 since the fourth quarter of 2022 has aimed to evaluate the effectiveness of the enhanced bioremediation remedy.

Analytical Results

Groundwater Sampling

Between June 3 and June 17, 2024, Arcadis conducted groundwater sampling at all 18 planned monitoring well locations using a combination of low-flow sampling and passive diffusion bags (PDBs). Locations are shown on **Figures 2** and **3**. Sampling logs are provided in **Appendix A**. Prior to sampling, water levels were measured at each groundwater monitoring well location. For those wells sampled by low-methods, field parameters (pH, temperature, oxidation-reduction potential [ORP], specific conductance, dissolved oxygen [DO] and turbidity) were measured and documented on the field sampling logs. Groundwater elevations are summarized in **Table 1**. As shown on **Figures 2** and **3**, the overburden and bedrock groundwater potentiometric surface maps indicate that the groundwater flow direction is generally to the east-southeast, consistent with other historical events, although there does appear to be a slight groundwater depression in the center of the overburden well network.

As applicable, groundwater was purged from the wells until field parameters stabilized, or PDBs were allowed to equilibrate for at least two weeks. Groundwater samples were collected from the monitoring wells listed in **Table 2.** A duplicate sample, DUP-20240604 was collected at MW-1R. An equipment blank, EB-20240605, was collected to evaluate the impact of sampling equipment on analytical results. Sample collection and handling was conducted in accordance with Arcadis' Generic Sampling and Analysis Plan (SAP) for NYSDEC Standby Engineering Contract D009804. Based on historical sampling analytical data and in consultation with the NYSDEC, purge water was discharged to the ground surface in the vicinity of the well from which it came in accordance with Arcadis' Generic SAP.

Groundwater samples were submitted to Pace Analytical of East Longmeadow, Massachusetts under direct callout to the New York State Department of Environmental Conservation (NYSDEC) and analyzed for Target Compound List (TCL) VOCs by United States Environmental Protection Agency Method 8260C and/or 40 compound target analyte list Per-and Polyfluoroalkyl Substances (PFAS) by Draft USEPA Method 1633.

A summary of current and historical analytical data are provided in **Table 3**. CVOC concentrations in samples are depicted on **Figures 4** and **5**. These figures show detected CVOCs at each location and highlight those contaminants and their concentrations which exceed the corresponding NYSDEC Class GA Groundwater Standards. Analytical laboratory reporting forms are provided in **Appendix B**. Data validation was conducted by Environmental Data Services, Inc. in accordance with NYSDEC Analytical Services Protocols to ensure that the quality of the data is sufficient to document existing conditions. Data Usability Summary Reports (DUSRs) were generated and are provided in **Appendix C**. The 2024 Q2 data were usable as reported with minor qualifications. The specific details of the data validation can be found in **Appendix C**.

As shown in **Table 3** and on **Figures 4** and **5**, cis-1,2-dichlorothene (cDCE), vinyl chloride (VC), PCE, and trichloroethene (TCE) were the most frequently detected CVOC compounds in groundwater samples

collected during the 2024 Q2 event. CVOCs were detected at concentrations greater than the corresponding NYSDEC Class GA Standards at the following locations:

Location	Wells	CVOCs exceeding NYSDEC Class GA Standards
Source Area	MW-02	PCE – 14 micrograms per liter (µg/L)
	MW-1R	PCE – 12 µg/L, TCE – 6.3 µg/L, cDCE – 20 µg/L, VC – 91 µg/L
Immediately Down-gradient of Source Area	MW-09	TCE – 20 µg/L, cDCE – 60 µg/L, VC – 29 µg/L
	MW-07	cDCE – 6.8 µg/L, VC – 18 µg/L
	MW-13	PCE – 610 µg/L, TCE – 240 µg/L, cDCE – 260 µg/L, VC – 30 µg/L
	IW-18	cDCE – 63 µg/L, VC – 91 µg/L
	IW-25	PCE – 5.2 µg/L, TCE – 24 µg/L, cDCE – 720 µg/L, tDCE – 7.2 µg/L, VC – 160 µg/L
Down-gradient plume area		No exceedances

As shown in **Table 3,** the groundwater sample collected from MW-1R, MW-2, MW-13, IW-18, and IW-25 contained both Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) at concentrations greater than the NYSDEC maximum contaminant level (MCL) of 10 nanograms per liter (ng/L) for PFOS and PFOA, individually. The groundwater samples collected from MW-7 and IW-31 contained PFOS at a concentration greater than the MCL (10 ng/L) and contained PFOA at a concentration less than the MCL (10 ng/L). The groundwater samples from MW-5, MW-10, MW-12, and MW-14 did not contain PFOS or PFOA at concentrations greater than the applicable MCL. PFOS and PFOA were not detected in the equipment blank collected during the sampling event. PFAS concentrations in samples are depicted on **Figure 6**, showing detected compounds at each location and highlighting those contaminants and their concentrations which exceed the corresponding NYSDEC MCLs.

Groundwater Contaminant Concentrations and Remedy Effectiveness

CVOCs

Relative to the 1st Quarter of 2024, the sampling results from the 2nd Quarter of 2024 show the following changes:

- Increased concentrations of PCE and/or TCE are noted at MW-1R, MW-02, MW-09, and IW-25, though generally minor in magnitude;
- Decreased concentrations of PCE and/or TCE are noted at MW-13;
- Increased concentrations of breakdown products are noted at MW-1R, MW-07, MW-09, MW-13, and MW-25;
- IW-18 had not previously been sampled under this contract, but showed the presence of breakdown products;

- Decreased concentrations of breakdown products are noted at MW-1R and MW-13; and
- Similar concentrations generally below corresponding NYSDEC Class GA Standards at all other monitoring locations.

Continued favorable/reducing conditions are inferred from overall reductions in CVOCs, higher proportions of breakdown products, and reductions in detections/exceedances in the down-gradient plume area. These results suggest that degradation is ongoing following the 2017/2018 plume treatment. This apparent trend will be further evaluated following subsequent sampling events.

PFAS

While the overall extent of PFAS impacts have been generally defined, sampling during the 2nd Quarter of 2024 was focused on establishing and/or confirming trends in PFAS concentrations, particularly in the source area. PFOS and PFOA concentrations were generally of similar magnitude or greater than those from previous sampling events. Additionally, PFOS and PFOA are present in the bedrock aquifer, as shown by results from MW-13. Samples from up-gradient well MW-5 continue to remain below MCLs and sampling results from the down-gradient plume area continue to indicate that there does not appear to be off-site migration.

Collectively, the PFAS results from recent sampling events suggest that the source of PFAS may be attributable to the site, given the general co-location with elevated CVOCs and known association of PFAS with wet and dry cleaner waste. Further, the impacts appear to be localized to the CVOC source area and immediately down-gradient, consistent with residual CVOC exceedances. These factors suggest that some PFAS-containing source mass may remain, influencing groundwater concentrations. This premise is supported by the fact that the 2009 IRM excavation targeted impacted soil based only on previous VOC sampling and photoionization detector field readings during excavation, and that excavation confirmation sampling did not include PFAS.

Conclusions and Recommendations

Overall reductions in CVOC concentrations and proportions of primary contaminant vs. breakdown products suggest that site conditions remain favorable for continued reductive dechlorination of residual CVOCs. The area of PFAS-impacted groundwater appears to be generally coincident with CVOC-impacted groundwater.

As summarized on **Table 4**, the following recommendations are offered for the 2024 Q3 sampling event:

- Continue VOC sampling in the immediate area surrounding source area and residual plume.
- Continue regular monitoring of PFAS concentrations to evaluate trends, adding MW-15BR

If you have any questions concerning this report, please call me at (518) 250-7334.

Sincerely,

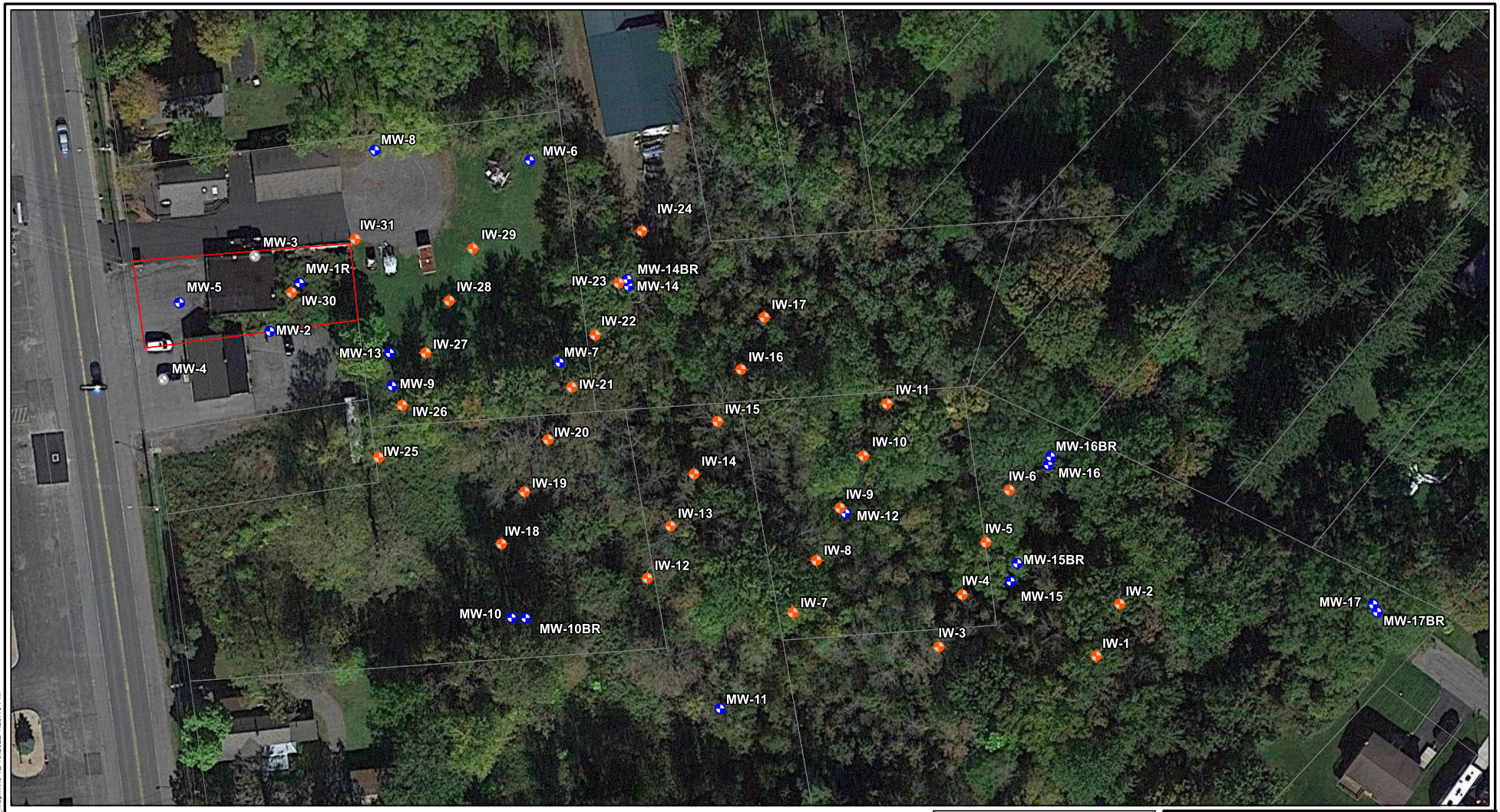
Arcadis of New York, Inc.

Stefan Bagnato, P.G. NY#000217
Principal Geologist

Enclosures:
Figure 1 – Site Map
Figure 2 – Overburden Potentiometric Contour Map
Figure 3 – Bedrock Potentiometric Contour Map
Figure 4 – Summary of CVOCs in Overburden Groundwater – Q2 2024
Figure 5 – Summary of CVOCs in Bedrock Groundwater – Q2 2024
Figure 6 – Summary of PFAS in Groundwater – Q2 2024

Table 1 – Summary of Groundwater Elevations
Table 2 – Summary of Sampled Wells
Table 3 – Summary of Groundwater Sampling Results
Table 4 – Proposed 2024 Q3 Sampling

Appendix A – Field Sampling Logs
Appendix B – Laboratory Analytical Reports
Appendix C – Data Usability Summary Reports



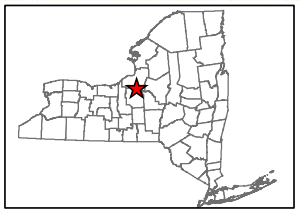
0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
Aerial Background: Google Satellite



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SITE MAP

ARCADIS

FIGURE
1

City: Clifton Park, Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project: 30135043.02
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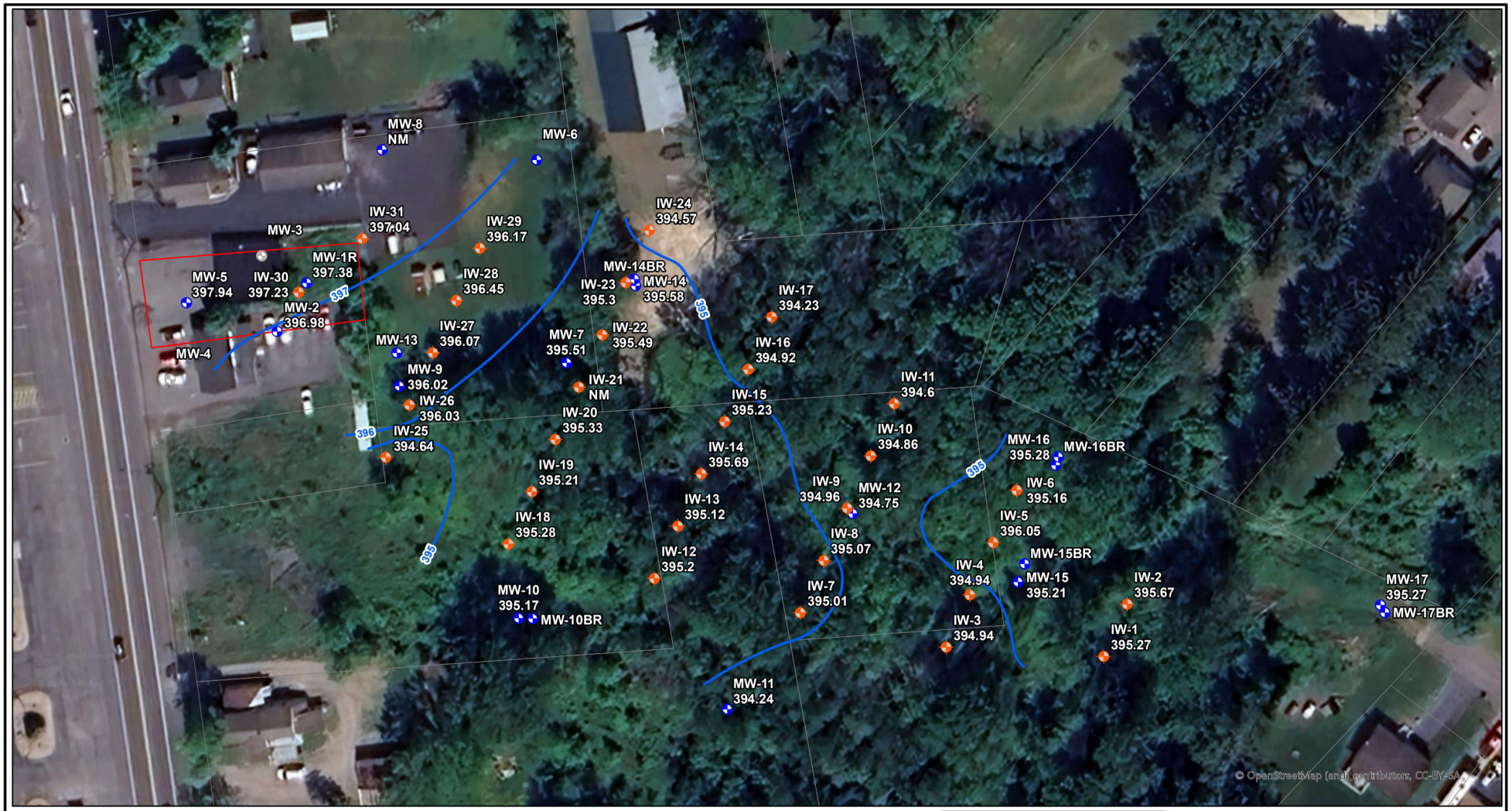

0 200 400 Feet

GRAPHIC SCALE

N

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel
- Potentiometric Contour (Feet Above Mean Sea Level [ft. amsl.])
- 399.75 Groundwater Elevation (ft. amsl)

NOTES:

Aerial Background: Google Satellite

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

OVERBURDEN POTENTIOMETRIC CONTOUR MAP
JUNE 3, 2024

ARCADIS

FIGURE 2

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
Name: PotentiometricMap_OB_Q22024
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0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- 395.41 Groundwater Elevation (ft. amsl)
- Site Parcel Boundary
- Tax Parcel
- Potentiometric Contour (Feet Above Mean Sea Level [ft. amsl.])

N

NOTES:
Aerial Background: Google Satellite

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

BEDROCK POTENTIOMETRIC CONTOUR MAP JUNE 3, 2024

ARCADIS

FIGURE 3

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
Name: PotentiometricMap_BR_Q22024
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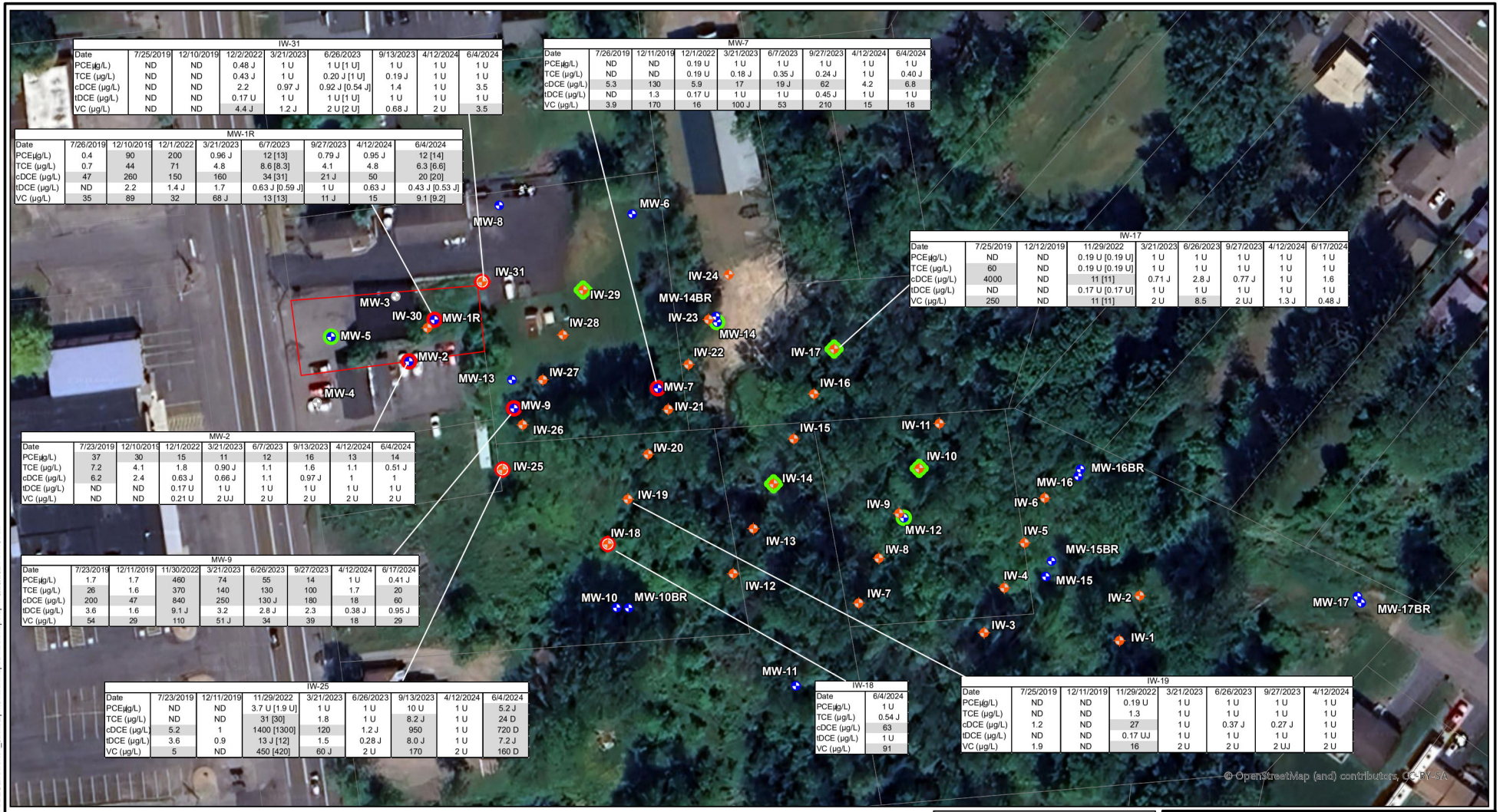

IW-31

Date	7/25/2019	12/10/2019	12/2/2022	3/21/2023	6/26/2023	9/13/2023	4/12/2024	6/4/2024
PCE (µg/L)	ND	ND	0.48 J	1 U	1 U [1 U]	1 U	1 U	1 U
TCE (µg/L)	ND	ND	0.43 J	1 U	0.20 J [1 U]	0.19 J	1 U	1 U
cDCE (µg/L)	ND	ND	2.2	0.97 J	0.92 J [0.54 J]	1.4	1 U	3.5
tDCE (µg/L)	ND	ND	0.17 U	1 U	1 U [1 U]	1 U	1 U	1 U
VC (µg/L)	ND	ND	4.4 J	1.2 J	2 U [2 U]	0.68 J	2 U	3.5

MW-7

Date	7/26/2019	12/11/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023	4/12/2024	6/4/2024
PCE (µg/L)	ND	ND	0.19 U	1 U	1 U	1 U	1 U	1 U
TCE (µg/L)	ND	ND	0.19 U	0.18 J	0.35 J	0.24 J	1 U	0.40 J
cDCE (µg/L)	5.3	130	5.9	17	19 J	62	4.2	6.8
tDCE (µg/L)	ND	1.3	0.17 U	1 U	1 U	0.45 J	1 U	1 U
VC (µg/L)	3.9	170	16	100 J	53	210	15	18

MW-1R

Date	7/26/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023	4/12/2024	6/4/2024
PCE (µg/L)	0.4	90	200	0.96 J	12 [13]	0.79 J	0.95 J	12 [14]
TCE (µg/L)	0.7	44	71	4.8	8.6 [8.3]	4.1	4.8	6.3 [6.6]
cDCE (µg/L)	47	260	150	160	34 [31]	21 J	50	20 [20]
tDCE (µg/L)	ND	2.2	1.4 J	1.7	0.63 J [0.59 J]	1 U	0.63 J	0.43 J [0.53 J]
VC (µg/L)	35	89	32	68 J	13 [13]	11 J	15	9.1 [9.2]

IW-17

Date	7/25/2019	12/12/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/17/2024
PCE (µg/L)	ND	ND	0.19 U [0.19 U]	1 U	1 U	1 U	1 U	1 U
TCE (µg/L)	60	ND	0.19 U [0.19 U]	1 U	1 U	1 U	1 U	1 U
cDCE (µg/L)	4000	ND	11 [11]	0.71 J	2.8 J	0.77 J	1 U	1.6
tDCE (µg/L)	ND	ND	0.17 U [0.17 U]	1 U	1 U	1 U	1 U	1 U
VC (µg/L)	250	ND	11 [11]	2 U	8.5	2 UJ	1.3 J	0.48 J

MW-2

Date	7/23/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/13/2023	4/12/2024	6/4/2024
PCE (µg/L)	37	30	15	11	12	16	13	14
TCE (µg/L)	7.2	4.1	1.8	0.90 J	1.1	1.6	1.1	0.51 J
cDCE (µg/L)	6.2	2.4	0.63 J	0.66 J	1.1	0.97 J	1	1
tDCE (µg/L)	ND	ND	0.17 U	1 U	1 U	1 U	1 U	1 U
VC (µg/L)	ND	ND	0.21 U	2 UJ	2 U	2 U	2 U	2 U

MW-9

Date	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/17/2024
PCE (µg/L)	1.7	1.7	460	74	55	14	1 U	0.41 J
TCE (µg/L)	26	1.6	370	140	130	100	1.7	20
cDCE (µg/L)	200	47	840	250	130 J	180	18	60
tDCE (µg/L)	3.6	1.6	9.1 J	3.2	2.8 J	2.3	0.38 J	0.95 J
VC (µg/L)	54	29	110	51 J	34	39	18	29

IW-25

Date	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/13/2023	4/12/2024	6/4/2024
PCE (µg/L)	ND	ND	3.7 U [1.9 U]	1 U	1 U	10 U	1 U	5.2 J
TCE (µg/L)	ND	ND	31 [30]	1.8	1 U	8.2 J	1 U	24 D
cDCE (µg/L)	5.2	1	1400 [1300]	120	1.2 J	950	1 U	720 D
tDCE (µg/L)	3.6	0.9	13 J [12]	1.5	0.28 J	8.0 J	1 U	7.2 J
VC (µg/L)	5	ND	450 [420]	60 J	2 U	170	2 U	160 D

IW-18

Date	6/4/2024
PCE (µg/L)	1 U
TCE (µg/L)	0.54 J
cDCE (µg/L)	63
tDCE (µg/L)	1 U
VC (µg/L)	91

IW-19

Date	7/25/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024
PCE (µg/L)	ND	ND	0.19 U	1 U	1 U	1 U	1 U
TCE (µg/L)	ND	ND	1.3	1 U	1 U	1 U	1 U
cDCE (µg/L)	1.2	ND	27	1 U	0.37 J	0.27 J	1 U
tDCE (µg/L)	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U
VC (µg/L)	1.9	ND	16	2 U	2 U	2 UJ	2 U

0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
ng/l - nanograms per liter.
Shaded cells exceed corresponding NYSDEC Maximum Contaminant Level (MCL).
J - Indicates an estimated value. J+ - Indicates an estimated value, biased high.
ND - Not detected. D - Value obtained from a dilution
Additional values shown in brackets represent a duplicate sample collected at this location.
Locations with a halo indicate sampling conducted during Q2 2024.
Green halo denotes no NYSDEC MCL exceedances in Q2;
Red halo denotes at least one MCL exceedance in Q2.

Aerial Background: Google Satellite

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF CVOCS IN OVERBURDEN GROUNDWATER Q2 2024

ARCADIS

FIGURE 4

City: Clifton Park, Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project: 30135043.02
Name: CVOCS OVRBRDN
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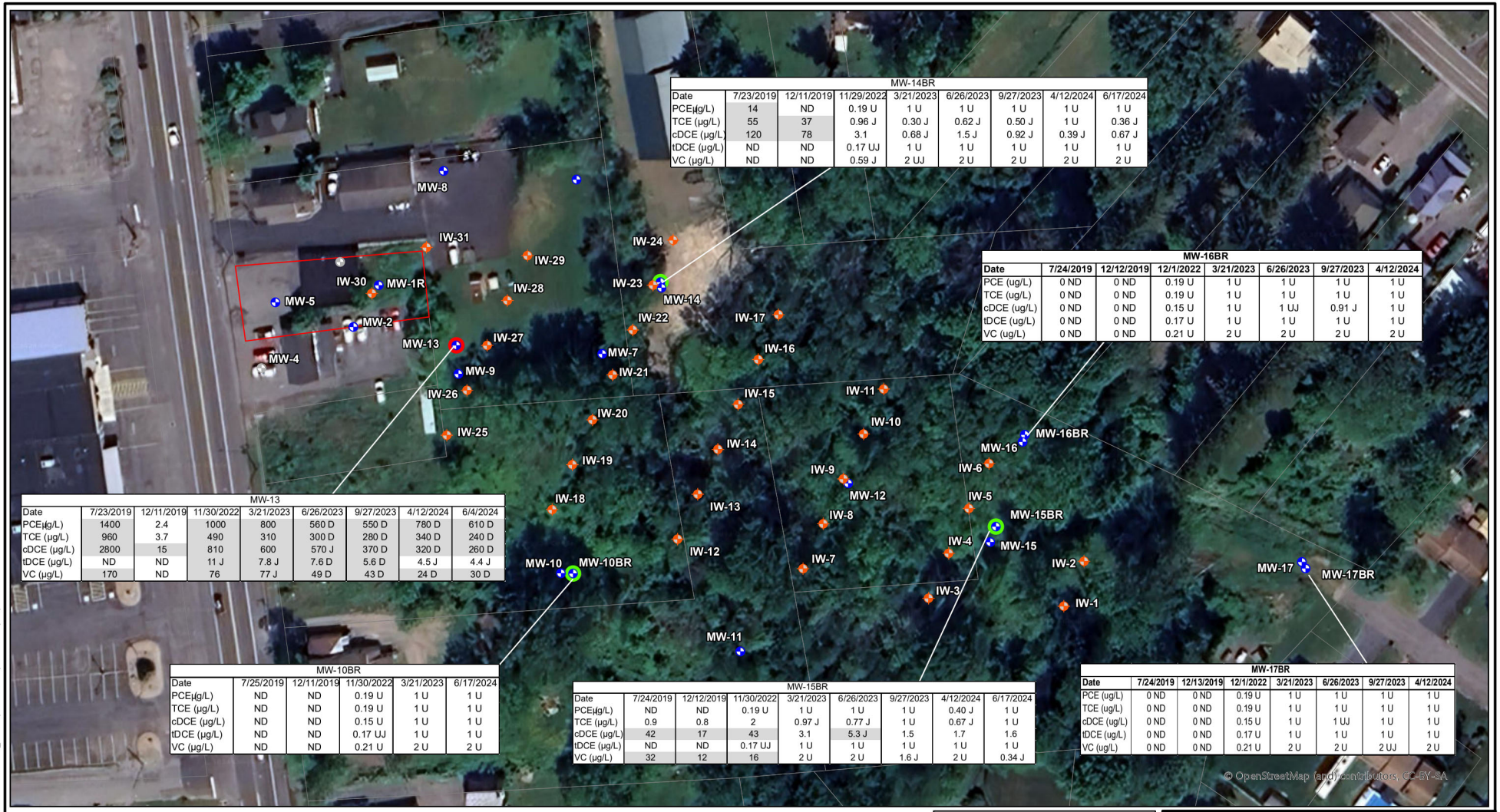


MW-14BR

Date	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/17/2024
PCEµg/L)	14	ND	0.19 U	1 U	1 U	1 U	1 U	1 U
TCE (µg/L)	55	37	0.96 J	0.30 J	0.62 J	0.50 J	1 U	0.36 J
cDCE (µg/L)	120	78	3.1	0.68 J	1.5 J	0.92 J	0.39 J	0.67 J
tDCE (µg/L)	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	1 U
VC (µg/L)	ND	ND	0.59 J	2 UJ	2 U	2 U	2 U	2 U

MW-16BR

Date	7/24/2019	12/12/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024
PCE (ug/L)	0 ND	0 ND	0.19 U	1 U	1 U	1 U	1 U
TCE (ug/L)	0 ND	0 ND	0.19 U	1 U	1 U	1 U	1 U
cDCE (ug/L)	0 ND	0 ND	0.15 U	1 U	1 UJ	0.91 J	1 U
tDCE (ug/L)	0 ND	0 ND	0.17 U	1 U	1 U	1 U	1 U
VC (ug/L)	0 ND	0 ND	0.21 U	2 U	2 U	2 U	2 U

MW-13

Date	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/4/2024
PCEµg/L)	1400	2.4	1000	800	560 D	550 D	780 D	610 D
TCE (µg/L)	960	3.7	490	310	300 D	280 D	340 D	240 D
cDCE (µg/L)	2800	15	810	600	570 J	370 D	320 D	260 D
tDCE (µg/L)	ND	ND	11 J	7.8 J	7.6 D	5.6 D	4.5 J	4.4 J
VC (µg/L)	170	ND	76	77 J	49 D	43 D	24 D	30 D

MW-10BR

Date	7/25/2019	12/11/2019	11/30/2022	3/21/2023	6/17/2024
PCEµg/L)	ND	ND	0.19 U	1 U	1 U
TCE (µg/L)	ND	ND	0.19 U	1 U	1 U
cDCE (µg/L)	ND	ND	0.15 U	1 U	1 U
tDCE (µg/L)	ND	ND	0.17 UJ	1 U	1 U
VC (µg/L)	ND	ND	0.21 U	2 U	2 U

MW-15BR

Date	7/24/2019	12/12/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/17/2024
PCEµg/L)	ND	ND	0.19 U	1 U	1 U	1 U	0.40 J	1 U
TCE (µg/L)	0.9	0.8	2	0.97 J	0.77 J	1 U	0.67 J	1 U
cDCE (µg/L)	42	17	43	3.1	5.3 J	1.5	1.7	1.6
tDCE (µg/L)	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	1 U
VC (µg/L)	32	12	16	2 U	2 U	1.6 J	2 U	0.34 J

MW-17BR

Date	7/24/2019	12/13/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024
PCE (ug/L)	0 ND	0 ND	0.19 U	1 U	1 U	1 U	1 U
TCE (ug/L)	0 ND	0 ND	0.19 U	1 U	1 U	1 U	1 U
cDCE (ug/L)	0 ND	0 ND	0.15 U	1 U	1 UJ	1 U	1 U
tDCE (ug/L)	0 ND	0 ND	0.17 U	1 U	1 U	1 U	1 U
VC (ug/L)	0 ND	0 ND	0.21 U	2 U	2 U	2 UJ	2 U

0 200 400 Feet

GRAPHIC SCALE

Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
ng/l - nanograms per liter.
Shaded cells exceed corresponding NYSDEC Maximum Contaminant Level (MCL).
J - Indicates an estimated value. J+ - Indicates an estimated value, biased high.
ND - Not detected. D - Value obtained from a dilution
Additional values shown in brackets represent a duplicate sample collected at this location.
Locations with a halo indicate sampling conducted during Q2 2024.
Green halo denotes no NYSDEC MCL exceedances in Q2;
Red halo denotes at least one MCL exceedance in Q2.

Aerial Background: Google Satellite

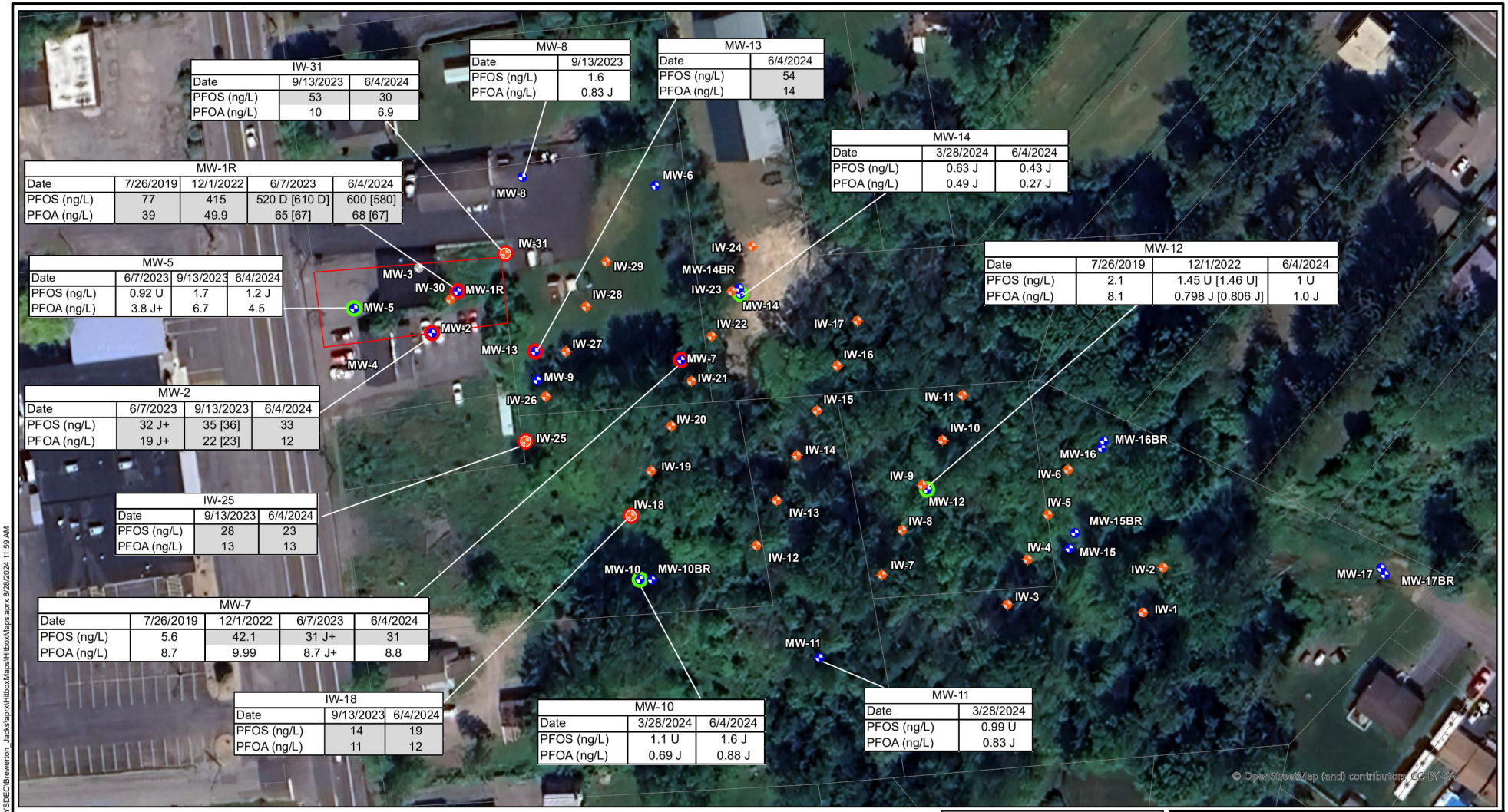
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF CVOCS IN BEDROCK GROUNDWATER Q2 2024

ARCADIS

FIGURE 5

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
Name: CVOCs BDRK
\\arcadis-us.com\app\GIS\Processing_ENV\NYSDEC\Brewerton_Jacks\aprx\HitboxMaps\HitboxMaps aprx 8/27/2024 3:23 PM

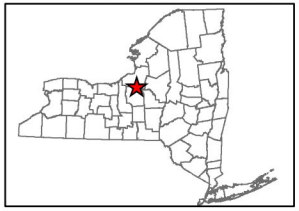


Legend

- Monitoring Well
- Injection Well
- Former Monitoring Well
- Site Parcel Boundary
- Tax Parcel

NOTES:
ng/l - nanograms per liter.
Shaded cells exceed corresponding NYSDEC Maximum Contaminant Level (MCL).
J - Indicates an estimated value. J+ - Indicates an estimated value, biased high.
ND - Not detected. D - Value obtained from a dilution
Additional values shown in brackets represent a duplicate sample collected at this location.
Green halo denotes no NYSDEC MCL exceedances in most recent sampling event.
Red halo denotes at least one MCL exceedance in most recent sampling event.

Aerial Background: Google Satellite



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF PFAS IN OVERBURDEN GROUNDWATER Q2 2024

ARCADIS

FIGURE 6

Table 1
Summary of Groundwater Elevations
Brewerton Jack's Cleaners
Brewerton, New York

NYSDEC Site No. 734112

Well ID	Ground Elevation (ft. AMSL)	Measuring Point Elevation (ft. AMSL)	Northing	Easting	Well Diameter (inches)	Depth to Bedrock (ft. below TOC)	Well Total Depth (ft. below TOC)	Historic - December 2019		11/28/2022		3/7/2023		6/5/2023		9/11/2023	
								DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1R	400.70	400.87	1179435.99	938419.55	2	19	19	1.40	399.47	3.15	397.72	1.61	399.26	3.92	40199.08	3.73	397.14
MW-2	401.39	401.10	1179406.36	938401.50	2	--	15	1.48	399.62	1.51	399.59	0.82	400.28	4.27	39185.73	2.70	398.40
MW-5	402.55	402.12	1179423.87	938346.034	2	--	15	2.60	399.52	2.72	399.40	2.87	399.25	4.50	39186.50	3.73	398.39
MW-7	400.29	399.98	1179387.25	938578.481	2	20.5	20.5	1.99	397.99	2.77	397.21	2.43	397.55	4.75	39498.25	3.34	396.64
MW-8	404.24	403.92	1179517.28	938465.636	2	15	15	4.53	399.39	4.17	399.75	4.90	399.02	7.16	39495.84	5.78	398.14
MW-9	400.05	399.80	1179372.97	938476.18	2	18.5	18.5	1.29	398.51	1.73	398.07	1.73	398.07	4.11	39499.89	2.53	397.27
MW-10	397.8	400.39	1179231.27	938549.17	2	-	15.5	3.05	397.34	3.01	397.38	3.07	397.32	5.53	40043.47	4.07	396.32
MW-10BR	397.90	400.36	1179231.07	938557.73	2	20	28	2.90	397.46	3.32	397.04	2.72	397.64	5.11	40199.89	3.76	396.60
MW-11	397.6	400.19	1179175.67	938676.702	2	--	18	4.14	396.05	3.69	396.50	3.63	396.56	6.25	40042.75	4.73	395.46
MW-12	397.5	399.84	1179295.2	938753.404	2	15	15	2.96	396.88	2.89	396.95	2.58	397.26	5.40	40043.60	4.01	395.83
MW-13	400.78	400.53	1179393.27	938474.70	2	18	29.5	2.39	398.14	2.76	397.77	2.65	397.88	5.02	40043.98	3.52	397.01
MW-14	397.20	399.79	1179434.26	938620.63	2	26	23	3.05	396.74	2.96	396.83	2.33	397.46	4.39	40199.61	1.61	398.18
MW-14BR	397.40	399.69	1179438.25	938619.91	2	23	38	3.05	396.64	5.58	394.11	3.40	396.29	4.96	40200.04	3.61	396.08
MW-15	399.50	402.13	1179253.40	938854.42	2	--	15.5	3.39	398.74	4.29	397.84	3.26	398.87	7.31	40198.69	7.18	394.95
MW-15BR	399.40	402.04	1179264.43	938858.49	2	15	30	5.59	396.45	5.45	396.59	5.64	396.40	8.18	40197.82	6.88	395.16
MW-16	402.30	404.46	1179324.66	938877.49	2	--	24.75	5.11	399.35	7.76	396.70	5.83	398.63	9.35	40433.65	9.11	395.35
MW-16BR	402.60	404.95	1179329.70	938879.08	2	24	40.25	9.31	395.64	9.54	395.41	8.72	396.23	10.67	40432.33	10.23	394.72
MW-17	401.90	404.19	1179239.28	939076.09	2	--	17	4.61	399.58	6.03	398.16	5.03	399.16	8.65	40433.35	8.54	395.65
MW-17BR	401.50	403.65	1179234.67	939078.76	2	15	30.51	8.77	394.88	10.00	393.65	8.57	395.08	11.06	40430.94	10.50	393.15
IW-1	UNK	401.19	1179207.88	938906.88	2	16	17.9	2.72	398.47	3.66	397.53	2.65	398.54	6.34	42999.66	5.03	396.16
IW-2	UNK	401.22	1179239.81	938921.23	2	--	17	2.40	398.82	2.68	398.54	2.20	399.02	5.90	42999.10	3.53	397.69
IW-3	UNK	399.85	1179213.54	938810.60	2	18	18	2.78	397.07	2.63	397.22	2.25	397.60	5.30	42997.70	3.94	395.91
IW-4	UNK	400.09	1179245.46	938824.95	2	17.5	18.9	NM	--	2.71	397.38	2.23	397.86	5.49	42998.51	3.98	396.11
IW-5	UNK	401.25	1179277.39	938839.30	2	17.5	18	NM	--	4.21	397.04	3.17	398.08	5.62	42997.38	5.45	395.80
IW-6	UNK	402.93	1179309.31	938853.65	2	17	18	NM	--	5.31	397.62	4.44	398.49	8.20	42995.80	7.22	395.71
IW-7	UNK	398.63	1179234.54	938721.37	2	17	18	NM	--	1.60	397.03	1.36	397.27	3.88	42999.12	2.55	396.08
IW-8	UNK	398.67	1179266.46	938735.72	2	16	18	NM	--	1.72	396.95	1.54	397.13	4.18	42995.82	2.69	395.98
IW-9	UNK	399.57	1179298.38	938750.06	2	14	17	NM	--	2.47	397.10	2.33	397.24	5.02	42993.98	3.44	396.13
IW-10	UNK	400.15	1179330.31	938764.41	2	14	17	NM	--	3.22	396.93	2.56	397.59	1.23	42997.77	2.81	397.34
IW-11	UNK	400.44	1179362.23	938778.76	2	16	18	2.91	397.53	3.45	396.99	3.25	397.19	6.34	42991.66	5.01	395.43
IW-12	UNK	398.14	1179255.53	938632.13	2	15	16.8	NM	--	1.04	397.10	0.86	397.28	3.38	42988.62	1.95	396.19
IW-13	UNK	398.34	1179287.46	938646.48	2	17	20.5	NM	--	1.35	396.99	1.13	397.21	3.55	42988.45	2.19	396.15
IW-14	UNK	399.64	1179319.38	938660.83	2	18	21	3.54	396.10	2.78	396.86	2.47	397.17	4.82	42988.18	3.42	396.22
IW-15	UNK	399.46	1179351.30	938675.18	2	20	21.5	NM	--	2.44	397.02	2.18	397.28	4.63	42988.37	3.24	396.22
IW-16	UNK	398.63	1179383.23	938689.53	2	20	21	NM	--	1.76	396.87	1.51	397.12	3.46	42992.54	1.63	397.00
IW-17	UNK	398.68	1179415.15	938703.87	2	17	20.8	2.02	396.66	1.79	396.89	2.76	395.92	4.13	42991.87	2.93	395.75
IW-18	UNK	398.89	1179276.53	938542.90	2	16.5	20	NM	--	1.69	397.20	1.57	397.32	3.89	42985.11	2.48	396.41
IW-19	UNK	398.21	1179308.45	938557.25	2	20	22.5	0.61	397.60	0.98	397.23	0.87	397.34	3.23	42980.77	1.89	396.32
IW-20	UNK	398.39	1179340.38	938571.59	2	15.5	19	NM	--	1.20	397.19	1.03	397.36	3.47	42986.53	1.98	396.41
IW-21	UNK	399.29	1179372.30	938585.94	2	15	20.5	NM	--	1.81	397.48	1.69	397.60	4.07	42985.93	2.64	396.65
IW-22	UNK	398.25	1179404.23	938600.29	2	14	18.5	NM	--	0.84	397.41	6.71	391.54	3.08	42994.92	1.67	396.58
IW-23	UNK	399.14	1179436.15	938614.64	2	17.5	20	NM	--	2.03	397.11	1.96	397.18	3.75	42993.25	2.60	396.54
IW-24	UNK	397.57	1179468.07	938628.99	2	20	21.6	0.65	396.92	0.31	397.26	0.31	397.26	2.55	42994.45	1.07	396.50
IW-25	UNK	398.29	1179329.44	938468.00	2	15.5	19	0.60	397.69	0.67	397.62	0.62	397.67	2.93	42986.07	1.51	396.78
IW-26	UNK	398.56	1179361.36	938482.35	2	12.5	15.5	NM	--	0.73	397.83	0.79	397.77	2.94	42983.06	1.57	396.99
IW-27	UNK	400.66	1179393.28	938496.70	2	16.8	20.5	NM	--	2.73	397.93	2.59	398.07	4.95	42981.05	3.66	397.00
IW-28	UNK	401.41	1179425.21	938511.05	2	17	20.2	NM	--	2.55	398.86	2.89	398.52	5.39	42979.61	3.79	397.62
IW-29	UNK	402.15	1179457.13	938525.40	2	17.5	20.5	3.52	398.63	4.11	398.04	4.04	398.11	6.37	42978.63	4.94	397.21
IW-30	UNK	401.27	1179430.23	938414.63	2	13.5	15	NM	--	1.94	399.33	2.14	399.13	4.27	42979.73	2.77	398.50
IW-31	UNK	403.63	1179462.15	938428.98	2	16	18	4.39	399.24	4.07	399.56	4.69	398.94	7.14	42987.86	5.31	398.32

NM - Not measured
UNK - Unknown
Horizontal coordinated were surveyed using NAD83
Horizontal coordinated were surveyed using NAD88

Table 1
Summary of Groundwater Elevations
Brewerton Jack's Cleaners
Brewerton, New York

Well ID	Ground Elevation (ft. AMSL)	Measuring Point Elevation (ft. AMSL)	3/26/2024		6/3/2024	
			DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1R	400.70	400.87	1.50	399.37	3.49	397.38
MW-2	401.39	401.10	1.84	399.26	3.89	396.98
MW-5	402.55	402.12	3.07	399.05	4.18	397.94
MW-7	400.29	399.98	2.39	397.59	4.47	395.51
MW-8	404.24	403.92	5.02	398.90	NM	NM
MW-9	400.05	399.80	1.81	397.99	3.78	396.02
MW-10	397.8	400.39	3.02	397.37	5.22	395.17
MW-10BR	397.90	400.36	2.69	397.67	4.77	395.59
MW-11	397.6	400.19	2.78	397.41	5.95	394.24
MW-12	397.5	399.84	2.35	397.49	5.09	394.75
MW-13	400.78	400.53	2.74	397.79	4.65	395.88
MW-14	397.20	399.79	2.16	397.63	4.21	395.58
MW-14BR	397.40	399.69	2.93	396.76	4.94	394.75
MW-15	399.50	402.13	3.48	398.65	6.92	395.21
MW-15BR	399.40	402.04	5.50	396.54	7.3	394.74
MW-16	402.30	404.46	5.63	398.83	9.18	395.28
MW-16BR	402.60	404.95	8.59	396.36	10.5	394.45
MW-17	401.90	404.19	4.67	399.52	8.92	395.27
MW-17BR	401.50	403.65	8.43	395.22	10.94	392.71
IW-1	UNK	401.19	2.26	398.93	5.92	395.27
IW-2	UNK	401.22	2.06	399.16	5.55	395.67
IW-3	UNK	399.85	2.04	397.81	4.91	394.94
IW-4	UNK	400.09	2.00	398.09	5.15	394.94
IW-5	UNK	401.25	2.82	398.43	5.2	396.05
IW-6	UNK	402.93	4.24	398.69	7.77	395.16
IW-7	UNK	398.63	1.24	397.39	3.62	395.01
IW-8	UNK	398.67	1.37	397.30	3.6	395.07
IW-9	UNK	399.57	2.19	397.38	4.61	394.96
IW-10	UNK	400.15	2.71	397.44	5.29	394.86
IW-11	UNK	400.44	3.05	397.39	5.84	394.60
IW-12	UNK	398.14	0.75	397.39	2.94	395.20
IW-13	UNK	398.34	1.02	397.32	3.22	395.12
IW-14	UNK	399.64	2.26	397.38	3.95	395.69
IW-15	UNK	399.46	2.11	397.35	4.23	395.23
IW-16	UNK	398.63	1.45	397.18	3.71	394.92
IW-17	UNK	398.68	1.72	396.96	4.45	394.23
IW-18	UNK	398.89	1.41	397.48	3.61	395.28
IW-19	UNK	398.21	0.80	397.41	3	395.21
IW-20	UNK	398.39	0.91	397.48	3.06	395.33
IW-21	UNK	399.29	NM	NM	NM	NM
IW-22	UNK	398.25	0.83	397.42	2.76	395.49
IW-23	UNK	399.14	1.99	397.15	3.84	395.30
IW-24	UNK	397.57	0.37	397.20	3	394.57
IW-25	UNK	398.29	0.66	397.63	3.65	394.64
IW-26	UNK	398.56	0.82	397.74	2.53	396.03
IW-27	UNK	400.66	2.66	398.00	4.59	396.07
IW-28	UNK	401.41	3.00	398.41	4.96	396.45
IW-29	UNK	402.15	4.07	398.08	5.98	396.17
IW-30	UNK	401.27	1.96	399.31	4.04	397.23
IW-31	UNK	403.63	4.80	398.83	6.59	397.04

NM - Not measured
UNK - Unknown
Horizontal coordinated were surveyed using NAD83
Horizontal coordinated were surveyed using NAD88

Table 2
Summary of 2024 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Well ID	VOCs Method 8260	PFAS 40 compound Method 1633
MW-1R	X	X
MW-2	X	X
MW-5	X	X
MW-7	X	X
MW-8		
MW-9	X[(a)]	
MW-10		X
MW-10BR	X[(a)]	
MW-11		
MW-12	X	X
MW-13	X	X
MW-14	X	X
MW-14BR	X[(a)]	
MW-15		
MW-15BR	X[(a)]	
MW-16		
MW-16BR		
MW-17		
MW-17BR		
IW-1		
IW-2		
IW-3		
IW-4		
IW-5		
IW-6		
IW-7		
IW-8		
IW-9		
IW-10		
IW-11		
IW-12		
IW-13		
IW-14	X[(a)]	
IW-15		
IW-16		
IW-17	X[(a)]	
IW-18	X	X
IW-19		
IW-20		
IW-21		
IW-22		
IW-23		
IW-24		
IW-25	X	X
IW-26		
IW-27		
IW-28		
IW-29	X[(a)]	
IW-30		
IW-31	X	X

Notes:
(a) Sampled using passive diffusion bags.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units	IW-1 7/24/2019	IW-1 12/13/2019	IW-1 11/30/2022	IW-1 3/21/2023	IW-1 6/26/2023	IW-1 9/27/2023	IW-1 4/12/2024	IW-11 7/25/2019	IW-11 12/12/2019	IW-11 11/29/2022	IW-11 3/21/2023	IW-11 6/26/2023	IW-11 9/27/2023	IW-11 4/12/2024	IW-14 7/26/2019	IW-14 12/12/2019	IW-14 11/29/2022	IW-14 3/21/2023	IW-14 6/26/2023	IW-14 9/27/2023	IW-14 4/12/2024	IW-17 7/25/2019	IW-17 12/12/2019
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND
1,1-Dichloroethane	5	µg/l	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND
1,1-Dichloroethene	5	µg/l	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	0.17 J	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA
1,2-Dichloroethane	0.6	µg/l	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND
1,4-Dioxane	1	µg/l	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 U	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA
2-Butanone (MEK)	50	µg/l	ND	**67**	15 J	20 U	20 U	20 U	1.6 J	**980**	**420**	3.5 J	20 U	1.8 J	20 U	20 UJ	**760**	**750**	13 J	20 U	20 U	20 U	20 UJ	**740**	**200**
Acetone	50	µg/l	ND	**250**	**75**	50 U	3.9 J	5.3 J	8.6 J	**1500**	**880**	4.8 J	50 U	4.0 J	4.6 J	7.4 J	ND	ND	5.3 J	50 U	5.7 J	4.9 J	8.0 J	ND	ND
Benzene	1	µg/l	ND	ND	0.2 U	1 U	**1.3**	1 U	1 U	ND	ND	0.2 U	1 U	1 U	1 U	1 U	ND	ND	**1.2**	**1.2**	**1.1**	0.98 J	0.83 J	ND	ND
Bromodichloromethane	50	µg/l	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND
Carbon Disulfide	60	µg/l	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	1.8 J	5 U	5 U	ND	ND
Chlorodibromomethane	50	µg/l	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND
Chloroethane	5	µg/l	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND
Chloroform	7	µg/l	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND
Chloromethane	5	µg/l	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND
cis-1,2-Dichloroethene	5	µg/l	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U	ND	ND	1.2	0.52 J	0.38 J	0.41 J	0.38 J	**5100**	**4600**	1.7	1.2	2.7 J	2.2	1.3	**4000**	ND
Cyclohexane	--	µg/l	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND
Dichloromethane	5	µg/l	2.8	**17**	0.23 U	5 U	5 U	5 U	5 U	ND	**41**	0.23 U	5 U	5 U	5 U	5 U	**50**	**95**	0.23 U	5 U	5 U	5 U	5 U	ND	**100**
Diethyl ether	--	µg/l	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA
Di-isopropyl ether	--	µg/l	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA
Ethylbenzene	5	µg/l	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND
Isopropylbenzene	5	µg/l	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND
m&p-Xylenes	5	µg/l	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA
Methyl Acetate	--	µg/l	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1.0	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	ND	ND	1.1 U	10 U	10 U	10 U	10 U	**250**	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND
Methylcyclohexane	--	µg/l	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	0.20 J	1 U	0.21 J	ND	ND
Methyl-tert-butylether	10	µg/l	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND
o-Xylene	5	µg/l	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA
tert-Butylbenzene	5	µg/l	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA
Tetrachloroethene	5	µg/l	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND
Tetrahydrofuran	50	µg/l	NA	NA	11	10 U	NA	NA	NA	NA	NA	2.2 J	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA
Toluene	5	µg/l	ND	ND	0.25 J	1.0	1 U	1 U	0.50 J	ND	ND	0.22 U	1 U	0.28 J	0.34 J	0.25 J	ND	ND	0.39 J	1.0	0.83 J	0.98 J	1.2	ND	ND
Total VOCs	--	µg/l	2.8	334	NA	NA	NA	NA	NA	2730	1341	NA	NA	NA	NA	NA	7010	6545	NA	NA	NA	NA	NA	5050	300
Total Xylenes	5	µg/l	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND
trans-1,2-Dichloroethene	5	µg/l	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND	ND	0.21 J	1 U	0.31 J	1 U	1 U	ND	ND
Trichloroethene	5	µg/l	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.33 J	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	**60**	ND
Vinyl chloride	2	µg/l	ND	ND	0.21 U	2 U	2 U	2 UJ	2 U	ND	ND	0.61 J	2 U	2 U	2 UJ	2 U	**1100**	**1100**	1.5 J	0.31 J	2 U	0.51 J	0.32 J	**250**	ND
Dissolved Gases																									
Ethane		µg/l	ND	ND	2.6 U	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	ND	38	68	NA	NA	NA	NA	ND	ND
Ethene		µg/l	ND	ND	3 U	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA	ND	1800	6.7 J	NA	NA	NA	NA	ND	ND
Methane		µg/l	ND	15000	7300	NA	NA	NA	NA	NA	9100	12000	NA	NA	NA	NA	NA	4900	11000	NA	NA	NA	NA	NA	9700
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			IW-17	IW-17	IW-17	IW-17	IW-17	IW-17-dup	IW-18	IW-18	IW-19	IW-19	IW-19	IW-19	IW-19	IW-19	IW-19	IW-2	IW-2	IW-2	IW-2	IW-2	IW-2	IW-2	IW-24
Date Collected:			11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	11/29/2022	9/13/2023	6/4/2024	7/25/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/24/2019	12/12/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/23/2019
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	0.18 U	1 U	1 U	1 U	1 U	0.18 U	NA	NA	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND
1,1-Dichloroethane	5	µg/l	0.81 J	1 U	0.27 J	1 U	0.26 J	0.86 J	NA	NA	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND
1,1-Dichloroethene	5	µg/l	0.14 U	1 U	1 U	1 U	1 U	0.14 U	NA	NA	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND
1,2,4-Trimethylbenzene	5	µg/l	0.2 U	1 U	NA	NA	1 U	0.2 U	NA	NA	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA
1,2-Dichloroethane	0.6	µg/l	**0.86 J**	0.55 J	1 U	1 U	1 U	**0.90 J**	NA	NA	**0.7**	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND
1,4-Dioxane	1	µg/l	21 UJ	50 U	50 UJ	50 U	NA	21 U	NA	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA
2-Butanone (MEK)	50	µg/l	12 J	20 U	20 U	20 U	1.5 J	12 J	NA	NA	**87**	**89**	1.6 U	20 U	20 U	20 U	1.7 J	**100**	48	3.5 J	20 U	20 U	20 U	1.9 J	22
Acetone	50	µg/l	9.6 J	50 U	3.6 J	4.7 J	50 UJ	9.4 J	NA	NA	37	**130**	2.6 J	50 U	9.3 J	50 U	50 UJ	**960**	**660**	26 J	50 U	3.8 J	50 U	9.3 J	39
Benzene	1	µg/l	**1.7**	**1.1**	**1.1**	**1.6**	1 U	**1.8**	NA	NA	**4.6**	ND	**3.5**	**3.2**	**2.1**	**1.5**	1 U	ND	ND	0.2 U	1 U	0.19 J	1 U	1 U	ND
Bromodichloromethane	50	µg/l	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	0.18 U	NA	NA	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND
Carbon Disulfide	60	µg/l	1.4 U	5 U	2.1 J	5 U	5 UJ	1.4 U	NA	NA	ND	ND	1.4 U	5 U	5 U	5 U	5 UJ	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND
Chlorodibromomethane	50	µg/l	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	0.22 U	NA	NA	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND
Chloroethane	5	µg/l	0.32 U	2 U	0.64 J	2 U	0.58 J	0.32 U	NA	NA	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND
Chloroform	7	µg/l	0.17 U	2 U	2 U	2 U	2 U	0.17 U	NA	NA	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND
Chloromethane	5	µg/l	0.52 U	2 U	2 U	2 U	2 U	0.52 U	NA	NA	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND
cis-1,2-Dichloroethene	5	µg/l	**11**	0.71 J	2.8 J	0.77 J	1 U	**11**	NA	NA	1.2	ND	**27**	1 U	0.37 J	0.27 J	1 U	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U	ND
Cyclohexane	--	µg/l	NA	NA	5 U	5 U	5 U	NA	NA	NA	3.7	3.8	NA	NA	4.5 J	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	ND
Dichloromethane	5	µg/l	0.23 U	5 U	5 U	5 U	5 U	0.23 U	NA	NA	ND	ND	0.23 U	5 U	5 U	5 U	5 U	2.1	1.9	0.23 U	5 U	5 U	5 U	5 U	ND
Diethyl ether	--	µg/l	0.75 J	2 U	NA	NA	NA	0.81 J	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA
Di-isopropyl ether	--	µg/l	0.26 J	0.5 U	NA	NA	NA	0.28 J	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA
Ethylbenzene	5	µg/l	0.21 U	1 U	1 U	1 U	1 U	0.21 U	NA	NA	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND
Isopropylbenzene	5	µg/l	0.11 U	1 U	1 U	1 U	1 U	0.11 U	NA	NA	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND
m&p-Xylenes	5	µg/l	0.46 U	2 U	NA	NA	2 U	0.46 U	NA	NA	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA
Methyl Acetate	--	µg/l	2.0 J	1 U	1 UJ	1 U	1 UJ	1.8	NA	NA	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	1.1 U	10 U	10 U	10 U	10 U	1.1 U	NA	NA	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND
Methylcyclohexane	--	µg/l	0.24 U	1 U	1 U	1 U	1 U	0.24 U	NA	NA	0.4	9.8	0.24 U	0.44 J	0.43 J	0.44 J	0.62	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND
Methyl-tert-butylether	10	µg/l	0.56 J	1 U	1 U	1 U	NA	0.57 J	NA	NA	1.8	ND	0.98 J	1 U	1 U	1 U	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	0.2
o-Xylene	5	µg/l	0.23 U	1 U	NA	NA	1 U	0.23 U	NA	NA	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA
tert-Butylbenzene	5	µg/l	0.13 U	1 U	NA	NA	1 U	0.13 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA
Tetrachloroethene	5	µg/l	0.19 U	1 U	1 U	1 U	1 U	0.19 U	NA	NA	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND
Tetrahydrofuran	50	µg/l	0.49 U	10 U	NA	NA	NA	0.49 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	2.6 J	10 U	NA	NA	NA	NA
Toluene	5	µg/l	0.33 J	0.31 J	0.45 J	0.31 J	1 U	0.30 J	NA	NA	ND	ND	0.98 J	0.99 J	0.71 J	0.64 J	1 U	ND	ND	0.30 J	0.94 J	1.0	1 U	0.61 J	ND
Total VOCs	--	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	138	233	NA	NA	NA	NA	NA	1062	710	NA	NA	NA	NA	NA	61
Total Xylenes	5	µg/l	NA	NA	1 U	1 U	1 U	NA	NA	NA	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND
trans-1,2-Dichloroethene	5	µg/l	0.17 U	1 U	1 U	1 U	1 U	0.17 U	NA	NA	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND
Trichloroethene	5	µg/l	0.19 U	1 U	1 U	1 U	1 U	0.19 U	NA	NA	ND	ND	1.3	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND
Vinyl chloride	2	µg/l	**11**	2 U	**8.5**	2 UJ	1.3 J	**11**	NA	NA	1.9	ND	**16**	2 U	2 U	2 UJ	2 U	ND	ND	0.21 U	2 U	2 U	2 UJ	2 U	ND
Dissolved Gases																									
Ethane		µg/l	160	NA	NA	NA	NA	170	NA	NA	ND	ND	19	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	ND
Ethene		µg/l	120	NA	NA	NA	NA	130	NA	NA	ND	ND	3 U	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA	ND
Methane		µg/l	13000	NA	NA	NA	NA	12000	NA	NA	NA	15000	8200	NA	NA	NA	NA	NA	6600	200	NA	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	NA	NA	7.6	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	NA	NA	18 J+	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	NA	NA	5.2	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	NA	NA	3.3	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	NA	NA	13	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	NA	NA	1.0 J	0.72 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	NA	NA	**14**	**19**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	NA	NA	**11**	**12**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	NA	NA	1.7 J	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	NA	NA	17	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	NA	NA	2.1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	66	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			IW-24	IW-24	IW-24	IW-24	IW-24	IW-24	IW-25	IW-25	IW-25	IW-25	IW-25	IW-25	IW-25	IW-25	IW-25-dup	IW-29	IW-29	IW-29	IW-29	IW-29	IW-29	IW-29	IW-29-dup
Date Collected:			12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/13/2023	4/12/2024	6/4/2024	11/29/2022	7/25/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	4/12/2024
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	3.7 U	1 U	1 U	10 U	1 U	NA	1.8 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	µg/l	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	2.8 U	1 U	1 UJ	10 U	1 U	NA	1.4 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	1 U
1,1-Dichloroethene	5	µg/l	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	2.8 U	0.25 J	1 U	10 U	1 U	NA	2.0 J	ND	ND	0.14 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	µg/l	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	4 U	1 U	NA	NA	1 U	NA	2 U	NA	NA	0.2 U	1 U	NA	NA	1 U	1 U
1,2-Dichloroethane	0.6	µg/l	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	6.2 UJ	1 U	1 U	10 U	1 U	NA	3.1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	1	µg/l	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	410 U	50 U	50 UJ	500 U	NA	NA	210 U	NA	NA	21 U	50 U	50 UJ	50 UJ	NA	NA
2-Butanone (MEK)	50	µg/l	**80**	6.9 J	20 U	20 U	20 U	20 UJ	12	1.5	32 U	20 U	20 U	200 U	20 UJ	NA	16 U	ND	ND	1.6 U	20 U	20 U	20 U	1.8 J	1.7 J
Acetone	50	µg/l	**110**	28 J	50 U	4.2 J	5.2 J	50 UJ	39	4	41 U	50 U	6.5 J	500 U	50 UJ	NA	20 U	42	ND	2.3 J	50 U	4.0 J	50 U	50 UJ	50 UJ
Benzene	1	µg/l	ND	0.2 U	1 U	1 U	1 U	1 U	**3.1**	**2.9**	4 U	**2.6**	**1.4**	10 U	1 U	NA	**2.4 J**	ND	ND	0.2 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	µg/l	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	3.6 U	0.5 U	0.5 U	5 U	0.5 U	NA	1.8 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	60	µg/l	ND	1.4 U	5 U	5 U	5 U	5 UJ	ND	ND	29 U	5 U	5 U	50 U	5 UJ	NA	14 U	ND	ND	1.4 U	5 U	5 U	5 U	5 UJ	5 UJ
Chlorodibromomethane	50	µg/l	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	4.4 U	0.5 U	0.5 U	5 U	0.5 U	NA	2.2 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	µg/l	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	6.4 U	2 U	2 U	20 U	2 U	NA	3.2 U	ND	ND	0.32 U	0.97 J	0.51 J	2 U	2 U	2 U
Chloroform	7	µg/l	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	3.4 U	2 U	0.18 J	20 U	2 U	NA	1.7 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	2 U
Chloromethane	5	µg/l	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	10 U	2 U	2 U	20 UJ	2 U	NA	5.2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	µg/l	ND	1.4	1 U	1 UJ	1 U	1 U	**5.2**	1	**1400**	**120**	1.2 J	**950**	1 U	NA	**1300**	ND	ND	1.1	0.61 J	0.58 J	0.68 J	1 U	0.53 J
Cyclohexane	--	µg/l	ND	NA	NA	5 U	5 U	5 U	15	7	NA	NA	6.1	50 U	5 U	NA	NA	ND	ND	NA	NA	5 U	5 U	5 U	5 U
Dichloromethane	5	µg/l	ND	0.23 U	5 U	5 U	5 U	5 U	ND	ND	4.7 U	5 U	5 U	50 U	5 U	NA	2.3 U	4.6	ND	0.23 U	5 U	5 U	5 U	5 U	5 U
Diethyl ether	--	µg/l	NA	0.18 U	2 U	NA	NA	NA	NA	NA	3.6 U	2 U	NA	NA	NA	NA	1.8 U	NA	NA	0.18 U	2 U	NA	NA	NA	NA
Di-isopropyl ether	--	µg/l	NA	0.13 U	0.5 U	NA	NA	NA	NA	NA	2.6 U	0.5 U	NA	NA	NA	NA	1.3 U	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA
Ethylbenzene	5	µg/l	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	4.3 U	1 U	1 U	10 U	1 U	NA	2.1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	µg/l	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	2.2 U	0.24 J	1 U	10 U	1 U	NA	1.1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylenes	5	µg/l	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	9.2 U	2 U	NA	NA	2 U	NA	4.6 U	NA	NA	0.46 U	2 U	NA	NA	2 U	2 U
Methyl Acetate	--	µg/l	ND	0.91 J	1 U	1 UJ	1 U	1 UJ	ND	ND	9.1 U	1 U	1 UJ	10 U	1 UJ	NA	4.5 U	ND	ND	0.45 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	22 U	10 U	10 U	100 U	10 U	NA	11 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	µg/l	ND	0.24 U	1 U	1 U	1 U	1 U	1.4	0.6	4.9 U	0.59 J	0.30 J	10 U	1 U	NA	2.4 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	1 U
Methyl-tert-butylether	10	µg/l	ND	0.58 J	1 U	1 U	1 U	NA	ND	ND	3.4 U	1 U	1 U	10 U	NA	NA	1.7 U	ND	ND	0.17 U	1 U	1 U	1 U	NA	NA
o-Xylene	5	µg/l	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	4.6 U	1 U	NA	NA	1 U	NA	2.3 U	NA	NA	0.23 U	1 U	NA	NA	1 U	1 U
tert-Butylbenzene	5	µg/l	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	2.6 U	0.36 J	NA	NA	1 U	NA	1.3 U	NA	NA	0.13 U	1 U	NA	NA	1 U	1 U
Tetrachloroethene	5	µg/l	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	3.7 U	1 U	1 U	10 U	1 U	NA	1.9 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50	µg/l	NA	1.3 J	10 U	NA	NA	NA	NA	NA	9.8 U	10 U	NA	NA	NA	NA	4.9 U	NA	NA	0.49 U	10 U	NA	NA	NA	NA
Toluene	5	µg/l	ND	0.22 U	0.25 J	0.70 J	0.37 J	1 U	ND	ND	4.5 U	0.77 J	0.50 J	10 U	1 U	NA	2.2 U	ND	ND	0.27 J	1 U	1 U	1 U	1 U	1 U
Total VOCs	--	µg/l	190	NA	NA	NA	NA	NA	84	18	NA	NA	NA	NA	NA	NA	NA	47	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	10 U	1 U	NA	NA	ND	ND	NA	NA	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	µg/l	ND	0.17 UJ	1 U	1 U	1 U	1 U	3.6	0.9	**13 J**	1.5	0.28 J	**8.0 J**	1 U	NA	**12**	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	µg/l	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	**31**	1.8	1 U	**8.2 J**	1 U	NA	**30**	ND	ND	0.19 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	µg/l	ND	0.22 J	2 UJ	2 U	2 UJ	2 U	**5**	ND	**450**	**60 J**	2 U	**170**	2 U	NA	**420**	ND	ND	0.36 J	2 UJ	2 U	2 UJ	2 U	0.30 J
Dissolved Gases																									
Ethane		µg/l	ND	2.6 U	NA	NA	NA	NA	ND	55	4.9 J	NA	NA	NA	NA	NA	90 J	ND	2.8	2.6 U	NA	NA	NA	NA	NA
Ethene		µg/l	ND	3 U	NA	NA	NA	NA	ND	ND	64	NA	NA	NA	NA	NA	72	ND	ND	3 U	NA	NA	NA	NA	NA
Methane		µg/l	10000	7200	NA	NA	NA	NA	NA	15000	4600	NA	NA	NA	NA	NA	4400	NA	21000	7700	NA	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	0.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	0.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	NA	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 J+	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	NA	0.23 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41 J	NA	0.36 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	NA	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	0.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	0.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**28**	NA	**23**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13**	NA	**13**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	NA	0.86 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	NA	35	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	0.94 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

	Location ID:	IW-3	IW-3	IW-3	IW-3	IW-3	IW-3	IW-3	IW-31	IW-31	IW-31	IW-31	IW-31	IW-31	IW-31	IW-31	IW-31-dup	IW-7	IW-7	IW-7	IW-7	IW-7	IW-7	IW-7
	Date Collected:	7/24/2019	12/12/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/25/2019	12/10/2019	12/2/2022	3/21/2023	6/26/2023	9/13/2023	4/12/2024	6/4/2024	6/26/2023	7/25/2019	12/12/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	µg/l	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	NA	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	µg/l	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.2 U	1 U	NA	NA	1 U
1,2-Dichloroethane	0.6	µg/l	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U
1,4-Dioxane	1	µg/l	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	50 U	NA	NA	21 U	50 U	50 U	50 U	NA
2-Butanone (MEK)	50	µg/l	**400**	**780**	11 J	20 U	20 U	20 U	20 UJ	ND	ND	1.6 U	20 U	20 U	20 U	1.6 J	NA	20 U	6.3	18	1.6 U	20 U	20 U	20 U	1.5 J
Acetone	50	µg/l	**650**	**340**	19 J	50 U	3.5 J	4.8 J	6.4 J	ND	ND	4.5 J	50 U	4.2 J	3.0 J	50 UJ	NA	4.2 J	7.3	45	3.6 J	50 U	3.9 J	50 U	8.0 J
Benzene	1	µg/l	ND	ND	0.2 U	1 U	**6.6**	**1.4**	1 U	ND	ND	0.2 U	1 U	1 U	1 U	1 U	NA	1 U	0.9	**1.1**	0.81 J	**1.0**	**2.0**	**1.4**	0.21 J
Bromodichloromethane	50	µg/l	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	60	µg/l	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 UJ	NA	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	50	µg/l	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	µg/l	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	NA	2 U	ND	1	0.32 U	2 U	2 U	2 U	2 U
Chloroform	7	µg/l	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	NA	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U
Chloromethane	5	µg/l	ND	1.4	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 UJ	2 U	NA	2 U	ND	1	0.52 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	µg/l	ND	**30**	3.9	0.43 J	0.49 J	0.42 J	0.29 J	ND	ND	2.2	0.97 J	0.92 J	1.4	1 U	NA	0.54 J	1.8	ND	0.40 J	0.35 J	0.47 J	0.76 J	0.83 J
Cyclohexane	--	µg/l	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	NA	5 U	1.5	1.5	NA	NA	5 U	5 U	5 U
Dichloromethane	5	µg/l	**100**	ND	0.23 U	5 U	5 U	5 U	5 U	**5.3**	ND	0.23 U	5 U	5 U	5 U	5 U	NA	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U
Diethyl ether	--	µg/l	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA
Di-isopropyl ether	--	µg/l	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U
Ethylbenzene	5	µg/l	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	µg/l	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U
m&p-Xylenes	5	µg/l	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	NA	NA	0.46 U	2 U	NA	NA	2 U
Methyl Acetate	--	µg/l	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 UJ	1 U	1 UJ	1 U	1 UJ	NA	1 U	ND	ND	0.45 U	1 U	1 U	1 U	1 UJ
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	NA	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	µg/l	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	NA	1 U	0.5	0.3	0.24 U	1 U	1 U	1 U	1 U
Methyl-tert-butylether	10	µg/l	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	NA	NA	1 U	0.3	0.4	0.50 J	1 U	1 U	1 U	1 U
o-Xylene	5	µg/l	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.23 U	1 U	NA	NA	1 U
tert-Butylbenzene	5	µg/l	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	1 U
Tetrachloroethene	5	µg/l	ND	4.1	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.48 J	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.19 U	1 U	1 U	1 U	0.21 J
Tetrahydrofuran	50	µg/l	NA	NA	36	1.3 J	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA
Toluene	5	µg/l	ND	ND	0.22 U	1 U	0.23 J	1 U	0.51 J	ND	1.5	0.22 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.22 U	2.5	3.6	1.2	0.24 J
Total VOCs	--	µg/l	1150	1298	NA	NA	NA	NA	NA	5.3	1.5	NA	NA	NA	NA	NA	NA	NA	27	70	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	NA	1 U	ND	ND	NA	NA	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	µg/l	ND	ND	0.34 J	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U
Trichloroethene	5	µg/l	ND	2.1	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.43 J	1 U	0.20 J	0.19 J	1 U	NA	1 U	0.5	ND	0.19 U	1 U	1 U	1 U	0.45 J
Vinyl chloride	2	µg/l	ND	ND	1.1 J	0.45 J	2 U	2 UJ	2 U	ND	ND	**4.4 J**	1.2 J	2 U	0.68 J	2 U	NA	2 U	**7.6**	1.4	0.21 U	2 U	2 U	2 UJ	0.30 J
Dissolved Gases																									
Ethane		µg/l	ND	ND	2.6 U	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	NA	NA	ND	ND	63	NA	NA	NA	NA
Ethene		µg/l	ND	ND	3 U	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA	NA	NA	ND	3100	3 U	NA	NA	NA	NA
Methane		µg/l	NA	19000	5300	NA	NA	NA	NA	NA	11000	11000	NA	NA	NA	NA	NA	NA	NA	21000	12000	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	2.0	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.3 U	NA	6.9	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 J	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.8	NA	9.4	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 J	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**53**	NA	**30**	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**10**	NA	6.9	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.64 J	NA	0.28 J	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.6	NA	15	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

			Location ID:	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10BR	MW-10BR	MW-10BR	MW-10BR	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
			Date Collected:	7/25/2019	12/11/2019	12/14/2022	3/21/2023	3/28/2024	6/4/2024	7/25/2019	12/11/2019	11/30/2022	3/21/2023	7/25/2019	12/12/2019	11/29/2022	3/21/2023	3/28/2024	7/26/2019	12/12/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/4/2024
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																								
Detected VOCs																										
1,1,2-Trichloroethane	1	µg/l	ND	ND	0.18 U	1 U	NA	NA	ND	ND	0.18 U	1 U	ND	ND	0.18 U	1 U	NA	ND	ND	0.18 U	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethane	5	µg/l	ND	ND	0.14 U	1 U	NA	NA	ND	ND	0.14 U	1 U	ND	ND	0.14 U	1 U	NA	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA
1,1-Dichloroethene	5	µg/l	ND	ND	0.14 U	1 U	NA	NA	ND	ND	0.14 U	1 U	ND	ND	0.14 U	1 U	NA	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	0.2 U	1 U	NA	NA	NA	NA	0.2 U	1 U	NA	NA	0.2 U	1 U	NA	NA	NA	0.2 U	1 U	NA	NA	1 U	NA
1,2-Dichloroethane	0.6	µg/l	ND	ND	0.31 U	1 U	NA	NA	ND	ND	0.31 UJ	1 U	ND	ND	0.31 UJ	1 U	NA	ND	ND	0.31 U	1 U	1 U	1 U	1 U	NA
1,4-Dioxane	1	µg/l	NA	NA	21 U	50 U	NA	NA	NA	NA	21 U	50 U	NA	NA	21 U	50 U	NA	ND	NA	21 U	50 U	50 U	50 U	NA	NA
2-Butanone (MEK)	50	µg/l	ND	ND	1.6 U	20 U	NA	NA	ND	ND	1.6 U	20 U	ND	ND	1.6 U	20 U	NA	ND	32	1.6 U	20 U	20 U	20 U	20 UJ	NA
Acetone	50	µg/l	ND	47	2 U	50 U	NA	NA	3.9	3.7	2 U	50 U	ND	ND	2.3 J	50 U	NA	ND	**100**	2 U	50 U	3.9 J	4.3 J	6.2 J	NA
Benzene	1	µg/l	ND	ND	0.2 U	1 U	NA	NA	ND	ND	0.2 U	1 U	ND	ND	0.2 U	1 U	NA	ND	ND	0.21 J	1 U	1 U	1 U	1 U	NA
Bromodichloromethane	50	µg/l	ND	ND	0.18 U	0.5 U	NA	NA	ND	ND	0.18 U	0.5 U	ND	ND	0.18 U	0.5 U	NA	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Carbon Disulfide	60	µg/l	ND	ND	1.4 U	5 U	NA	NA	ND	ND	1.4 U	5 U	ND	ND	1.4 U	5 U	NA	ND	ND	1.4 U	5 U	5 U	5 U	5 U	NA
Chlorodibromomethane	50	µg/l	ND	ND	0.22 U	0.5 U	NA	NA	ND	ND	0.22 U	0.5 U	ND	ND	0.22 U	0.5 U	NA	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	NA
Chloroethane	5	µg/l	ND	ND	0.32 U	2 U	NA	NA	ND	ND	0.32 U	2 U	ND	ND	0.32 U	2 U	NA	ND	ND	**53**	**36**	**24**	**11**	**33**	NA
Chloroform	7	µg/l	ND	ND	0.17 U	2 U	NA	NA	ND	ND	0.17 U	2 U	ND	ND	0.17 U	2 U	NA	ND	ND	0.17 U	2 U	2 U	2 U	2 U	NA
Chloromethane	5	µg/l	ND	ND	0.52 U	2 U	NA	NA	ND	ND	0.52 U	2 U	ND	ND	0.52 U	2 U	NA	ND	ND	0.52 U	2 U	2 U	2 U	2 U	NA
cis-1,2-Dichloroethene	5	µg/l	ND	ND	0.15 U	1 U	NA	NA	ND	ND	0.15 U	1 U	ND	0.9	0.42 J	1.4	NA	ND	ND	0.84 J	1 U	0.84 J	1.2	0.37 J	NA
Cyclohexane	--	µg/l	0.7	ND	NA	NA	NA	NA	ND	0.7	NA	NA	ND	ND	NA	NA	NA	ND	ND	NA	NA	5 U	5 U	5 U	NA
Dichloromethane	5	µg/l	ND	ND	0.23 U	5 U	NA	NA	ND	ND	0.23 U	5 U	ND	ND	0.23 U	5 U	NA	**10**	**17**	0.23 U	5 U	5 U	5 U	5 U	NA
Diethyl ether	--	µg/l	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	0.18 U	2 U	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA
Di-isopropyl ether	--	µg/l	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA
Ethylbenzene	5	µg/l	ND	ND	0.21 U	1 U	NA	NA	ND	ND	0.21 U	1 U	ND	ND	0.21 U	1 U	NA	ND	ND	0.21 U	1 U	1 U	1 U	1 U	NA
Isopropylbenzene	5	µg/l	ND	ND	0.11 U	1 U	NA	NA	ND	ND	0.11 U	1 U	ND	ND	0.11 U	1 U	NA	ND	ND	0.11 U	1 U	1 U	1 U	1 U	NA
m&p-Xylenes	5	µg/l	NA	NA	0.46 U	2 U	NA	NA	NA	NA	0.46 U	2 U	NA	NA	0.46 U	2 U	NA	NA	NA	0.46 U	2 U	NA	NA	2 U	NA
Methyl Acetate	--	µg/l	ND	ND	0.45 UJ	1 U	NA	NA	ND	ND	0.45 U	1 U	ND	ND	0.45 U	1 U	NA	ND	ND	0.45 U	1 U	1 U	1 U	1 UJ	NA
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	ND	ND	1.1 U	10 U	NA	NA	ND	ND	1.1 U	10 U	ND	ND	1.1 U	10 U	NA	ND	ND	1.1 U	10 U	10 U	10 U	10 U	NA
Methylcyclohexane	--	µg/l	0.2	ND	0.24 U	1 U	NA	NA	ND	ND	0.24 U	1 U	ND	ND	0.24 U	1 U	NA	ND	ND	0.24 U	1 U	1 U	1 U	1 U	NA
Methyl-tert-butylether	10	µg/l	1.4	ND	1.0	1 U	NA	NA	1.1	1.4	1.3	1 U	2.6	2.7	0.45 J	1 U	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA
o-Xylene	5	µg/l	NA	NA	0.23 U	1 U	NA	NA	NA	NA	0.23 U	1 U	NA	NA	0.23 U	1 U	NA	NA	NA	0.23 U	1 U	NA	NA	1 U	NA
tert-Butylbenzene	5	µg/l	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	0.13 U	1 U	NA	NA	NA	0.13 U	1 U	NA	NA	1 U	NA
Tetrachloroethene	5	µg/l	ND	ND	0.19 U	1 U	NA	NA	ND	ND	0.19 U	1 U	ND	ND	0.19 U	1 U	NA	ND	ND	0.19 U	1 U	1 U	1 U	1 U	NA
Tetrahydrofuran	50	µg/l	NA	NA	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	0.49 U	10 U	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA
Toluene	5	µg/l	ND	ND	0.22 U	1 U	NA	NA	ND	ND	0.22 U	1 U	ND	ND	0.22 U	1 U	NA	ND	ND	0.50 J	1 U	0.24 J	0.32 J	0.12 J	NA
Total VOCs	--	µg/l	4.5	47	NA	NA	NA	NA	5	5.8	NA	NA	3.5	4.6	NA	NA	NA	10	149	NA	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA	ND	ND	NA	NA	1 U	1 U	1 U	NA
trans-1,2-Dichloroethene	5	µg/l	ND	ND	0.17 U	1 U	NA	NA	ND	ND	0.17 UJ	1 U	ND	ND	0.17 UJ	1 U	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA
Trichloroethene	5	µg/l	ND	ND	0.19 U	1 U	NA	NA	ND	ND	0.19 U	1 U	ND	ND	0.19 U	1 U	NA	ND	ND	0.69 J	0.61 J	0.88 J	0.93 J	0.41 J	NA
Vinyl chloride	2	µg/l	**2.2**	ND	0.21 U	2 U	NA	NA	ND	ND	0.21 U	2 U	0.9	1	0.21 U	0.82 J	NA	ND	ND	0.21 U	2 U	2 U	2 U	2 U	NA
Dissolved Gases																										
Ethane		µg/l	NA	27	35	NA	NA	NA	NA	260	24	NA	NA	ND	72	NA	NA	NA	ND	44	NA	NA	NA	NA	NA
Ethene		µg/l	NA	ND	3 U	NA	NA	NA	NA	ND	3 U	NA	NA	30	3.4 J	NA	NA	NA	ND	5.2 J	NA	NA	NA	NA	NA
Methane		µg/l	NA	1700	5000	NA	NA	NA	NA	22000	1800	NA	NA	4500	4600	NA	NA	NA	20000	12000	NA	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	NA	NA	1.45 U	NA	NA	NA	NA	1 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	NA	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	1.6	1.7	NA	NA	NA	NA	NA	NA	NA	NA	0.75 J	ND	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	6.4	5.5	NA	NA	NA	NA	NA	NA	NA	NA	12	7.9	NA	2.98 J	NA	NA	NA	NA	4.3
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	ND	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	0.23	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.78 J	3.3	NA	0.508 J	NA	NA	NA	NA	0.47 J
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	0.39 J	0.59 J	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	0.96	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	0.68 J	0.58 J	NA	NA	NA	NA	NA	NA	NA	NA	5.0	4.6	NA	2.4	NA	NA	NA	NA	1.3
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	NA	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	1.4	NA	2.47	NA	NA	NA	NA	1 U
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	ND	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	1.1 U	1.6 J	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	2.1	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	0.69 J	0.88 J	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	8.1	NA	0.798 J	NA	NA	NA	NA	1.0 J
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	NA	NA	1.45 U	NA	NA	NA	NA	1 U
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	1.0 J	0.87 J	NA	NA	NA	NA	NA	NA	NA	NA	11	3.9	NA	1.81 J	NA	NA	NA	NA	1.9 J
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	1.1 U	0.99 U	NA	NA	NA	NA	NA	NA	NA	NA	0.99 U	ND	NA	1.45 U	NA	NA	NA	NA	1 U
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.5	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	28	16	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or
NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			MW-12-dup	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14BR	MW-14BR	MW-14BR	MW-14BR	MW-14BR	MW-14BR
Date Collected:			12/1/2022	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	6/4/2024	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	3/28/2024	6/4/2024	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	NA	ND	ND	1.8 U	10 U	5 U	4 U	10 U	NA	ND	ND	0.18 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.18 U	1 U	1 U	1 U
1,1-Dichloroethane	5	µg/l	NA	ND	ND	1.4 U	10 U	5 UJ	4 U	10 U	NA	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	NA	ND	ND	0.14 U	1 U	1 UJ	1 U
1,1-Dichloroethene	5	µg/l	NA	ND	ND	1.8 J	2.2 J	0.95 J	1.0 JD	10 U	NA	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.14 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	NA	2 U	10 U	NA	NA	10 U	NA	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	NA	0.2 U	1 U	NA	NA
1,2-Dichloroethane	0.6	µg/l	NA	ND	ND	3.1 UJ	10 U	5 U	4 U	10 U	NA	ND	ND	0.31 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.31 UJ	1 U	1 U	1 U
1,4-Dioxane	1	µg/l	NA	NA	NA	210 U	500 U	250 UJ	200 U	NA	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	NA	21 U	50 U	50 UJ	50 U
2-Butanone (MEK)	50	µg/l	NA	ND	ND	16 U	200 U	100 U	80 U	200 UJ	NA	**390**	**240**	1.6 U	20 U	20 U	20 U	20 U	NA	**160**	**130**	1.6 U	20 U	20 U	20 U
Acetone	50	µg/l	NA	ND	ND	20 U	500 U	250 U	200 U	24 J	NA	ND	**350**	20 J	50 U	4.4 J	5.2 J	3.3 J	NA	**180**	**190**	4.5 J	50 U	4.3 J	4.5 J
Benzene	1	µg/l	NA	ND	ND	2 U	10 U	5 U	4 U	10 U	NA	ND	ND	**1.3**	1 U	**3.9**	**1.7**	0.43 J	NA	ND	ND	0.36 J	0.24 J	**3.9**	0.49 J
Bromodichloromethane	50	µg/l	NA	ND	ND	1.8 U	5 U	2.5 U	2 U	5 U	NA	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	60	µg/l	NA	ND	ND	14 U	50 U	25 U	20 U	50 U	NA	ND	ND	1.4 U	2.3 J	2.4 J	5 U	5 U	NA	ND	ND	1.4 U	5 U	2.9 J	5 U
Chlorodibromomethane	50	µg/l	NA	ND	ND	2.2 U	5 U	2.5 U	2 U	5 U	NA	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	µg/l	NA	ND	ND	3.2 U	20 U	10 U	8 U	20 U	NA	ND	ND	0.32 U	2 U	2 U	2 U	2 U	NA	ND	ND	0.32 U	2 U	2 U	2 U
Chloroform	7	µg/l	NA	ND	ND	1.7 U	20 U	10 U	8 U	20 U	NA	ND	ND	0.17 U	2 U	2 U	2 U	2 U	NA	ND	ND	0.17 U	2 U	2 U	2 U
Chloromethane	5	µg/l	NA	ND	ND	5.2 U	20 U	10 U	8 U	20 U	NA	ND	ND	0.52 U	2 U	2 U	2 U	2 U	NA	ND	ND	0.52 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	µg/l	NA	**2800**	**15**	**810**	**600**	**570 J**	**370 D**	**320 D**	NA	ND	ND	1.7	0.34 J	0.30 J	0.22 J	0.25 J	NA	**120**	**78**	3.1	0.68 J	1.5 J	0.92 J
Cyclohexane	--	µg/l	NA	ND	ND	NA	NA	25 U	20 U	50 U	NA	ND	ND	NA	NA	5 U	5 U	5 U	NA	ND	ND	NA	NA	5 U	5 U
Dichloromethane	5	µg/l	NA	ND	ND	2.3 U	50 U	25 U	20 U	50 U	NA	ND	ND	0.23 U	5 U	5 U	5 U	5 U	NA	ND	ND	0.23 U	5 U	5 U	5 U
Diethyl ether	--	µg/l	NA	NA	NA	1.8 U	20 U	NA	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA
Di-isopropyl ether	--	µg/l	NA	NA	NA	1.3 U	5 U	NA	NA	5 U	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	NA	0.13 U	0.5 U	NA	NA
Ethylbenzene	5	µg/l	NA	ND	ND	2.1 U	10 U	5 U	4 U	10 U	NA	ND	ND	0.21 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.21 U	1 U	1 U	1 U
Isopropylbenzene	5	µg/l	NA	ND	ND	1.1 U	10 U	5 U	4 U	10 U	NA	ND	ND	0.11 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.11 U	1 U	1 U	1 U
m&p-Xylenes	5	µg/l	NA	NA	NA	4.6 U	20 U	NA	NA	20 U	NA	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	NA	0.46 U	2 U	NA	NA
Methyl Acetate	--	µg/l	NA	ND	ND	4.5 U	10 U	5 UJ	4 U	10 UJ	NA	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	NA	ND	ND	0.45 U	1 U	1 UJ	1 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	NA	ND	ND	11 U	100 U	50 U	40 U	100 U	NA	ND	ND	1.1 U	10 U	10 U	10 U	10 U	NA	**64**	**110**	1.1 U	10 U	10 U	10 U
Methylcyclohexane	--	µg/l	NA	ND	ND	3.2 J	10 U	5 U	4 U	10 U	NA	ND	ND	0.24 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.24 U	1 U	1 U	1 U
Methyl-tert-butylether	10	µg/l	NA	ND	ND	1.7 U	10 U	5 U	4 U	10 U	NA	ND	ND	0.25 J	1 U	1 U	1 U	0.18 J	NA	ND	ND	0.17 U	1 U	1 U	1 U
o-Xylene	5	µg/l	NA	NA	NA	2.3 U	10 U	NA	NA	10 U	NA	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	NA	0.23 U	1 U	NA	NA
tert-Butylbenzene	5	µg/l	NA	NA	NA	1.3 U	10 U	NA	NA	10 U	NA	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	NA	0.13 U	1 U	NA	NA
Tetrachloroethene	5	µg/l	NA	**1400**	2.4	**1000**	**800**	**560 D**	**550 D**	**780 D**	NA	ND	ND	1.7	1 U	1 U	1 U	1 U	NA	**14**	ND	0.19 U	1 U	1 U	1 U
Tetrahydrofuran	50	µg/l	NA	NA	NA	4.9 U	100 U	NA	NA	NA	NA	NA	NA	1.5 J	10 U	NA	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA
Toluene	5	µg/l	NA	ND	ND	2.2 U	10 U	5 U	4 U	10 U	NA	ND	ND	0.40 J	0.89 J	0.59 J	0.57 J	0.44 J	NA	ND	ND	0.22 U	1 U	1 U	1 U
Total VOCs	--	µg/l	NA	5330	21	NA	NA	NA	NA	NA	NA	390	590	NA	NA	NA	NA	NA	NA	593	545	NA	NA	NA	NA
Total Xylenes	5	µg/l	NA	ND	ND	NA	NA	5 U	4 U	10 U	NA	ND	ND	NA	NA	1 U	1 U	1 U	NA	ND	ND	NA	NA	1 U	1 U
trans-1,2-Dichloroethene	5	µg/l	NA	ND	ND	**11 J**	**7.8 J**	**7.6 D**	**5.6 D**	4.5 J	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.17 UJ	1 U	1 U	1 U
Trichloroethene	5	µg/l	NA	**960**	3.7	**490**	**310**	**300 D**	**280 D**	**340 D**	NA	ND	ND	1.1	1 U	1 U	1 U	1 U	NA	**55**	**37**	0.96 J	0.30 J	0.62 J	0.50 J
Vinyl chloride	2	µg/l	NA	**170**	ND	**76**	**77 J**	**49 D**	**43 D**	**24 D**	NA	ND	ND	0.37 J	2 UJ	2 U	2 U	2 UJ	NA	ND	ND	0.59 J	2 UJ	2 U	2 U
Dissolved Gases																									
Ethane		µg/l	NA	NA	ND	27	NA	NA	NA	NA	NA	NA	ND	14	NA	NA	NA	NA	NA	ND	23	28	NA	NA	NA
Ethene		µg/l	NA	NA	ND	5.4 J	NA	NA	NA	NA	NA	NA	ND	3 U	NA	NA	NA	NA	NA	ND	ND	6.8 J	NA	NA	NA
Methane		µg/l	NA	NA	ND	1400	NA	NA	NA	NA	NA	NA	13000	6100	NA	NA	NA	NA	NA	ND	7100	8100	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	0.80 J	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	2.0	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	3.37 J	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	5.3	5.0	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	0.53 J	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	0.53 J	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	NA	NA	1 U	0.37 J	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	1.32 J	NA	NA	NA	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	NA	0.29 J	0.24 J	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	0.70 J	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	1.4	NA	NA	NA	NA	NA	NA	1 U	0.18 J	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	0.74 J	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	**54**	NA	NA	NA	NA	NA	NA	0.63 J	0.43 J	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	0.806 J	NA	NA	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	NA	0.49 J	0.27 J	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	0.63 J	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	1.9 J	NA	NA	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA	NA	1.3 J	1.3 J	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	1.46 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	0.97 U	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	10 U	40	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			MW-14BR	MW-14-dup	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15BR	MW-15BR	MW-15BR	MW-15BR	MW-15BR	MW-15BR	MW-15BR	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Date Collected:			4/12/2024	3/28/2024	7/24/2019	12/12/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/24/2019	12/12/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/24/2019	12/12/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	µg/l	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U
1,1-Dichloroethene	5	µg/l	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	µg/l	1 U	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U
1,2-Dichloroethane	0.6	µg/l	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U	1 U
1,4-Dioxane	1	µg/l	NA	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA
2-Butanone (MEK)	50	µg/l	20 UJ	20 U	ND	ND	1.6 U	20 U	20 U	20 U	20 UJ	ND	ND	1.6 U	20 U	20 U	20 U	1.5 J	ND	ND	1.6 U	20 U	20 U	20 U	20 UJ
Acetone	50	µg/l	6.9 J	3.0 J	ND	ND	2 U	50 U	3.8 J	4.8 J	6.3 J	ND	ND	2 U	50 U	3.7 J	3.8 J	8.0 J	ND	ND	2 U	50 U	4.0 J	50 U	6.4 J
Benzene	1	µg/l	0.48 J	0.43 J	ND	ND	0.2 U	1 U	1 U	1 U	1 U	0.7	ND	**1.4**	1 U	0.41 J	0.42 J	1 U	ND	ND	0.2 U	1 U	0.50 J	1 U	1 U
Bromodichloromethane	50	µg/l	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	60	µg/l	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	50	µg/l	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	µg/l	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U
Chloroform	7	µg/l	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U
Chloromethane	5	µg/l	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	0.5	0.52 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	µg/l	0.39 J	0.25 J	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U	**42**	**17**	**43**	3.1	**5.3 J**	1.5	1.7	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U
Cyclohexane	--	µg/l	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	0.6	0.3	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U
Dichloromethane	5	µg/l	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U
Diethyl ether	--	µg/l	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA
Di-isopropyl ether	--	µg/l	0.5 U	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U
Ethylbenzene	5	µg/l	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	µg/l	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U
m&p-Xylenes	5	µg/l	2 U	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U
Methyl Acetate	--	µg/l	1 UJ	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	µg/l	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U
Methyl-tert-butylether	10	µg/l	1 U	0.18 J	ND	ND	0.17 U	1 U	1 U	1 U	1 U	1.2	0.6	0.45 J	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U
o-Xylene	5	µg/l	1 U	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U
tert-Butylbenzene	5	µg/l	1 U	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U
Tetrachloroethene	5	µg/l	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	0.40 J	ND	ND	0.19 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	50	µg/l	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA
Toluene	5	µg/l	0.67 J	0.47 J	ND	ND	0.22 U	1 U	1 U	1 U	0.13 J	ND	ND	0.22 U	1 U	1 U	0.39 J	1 U	ND	ND	0.22 U	1 U	1 U	1 U	1 U
Total VOCs	--	µg/l	NA	NA	ND	ND	NA	NA	NA	NA	NA	77	31	NA	NA	NA	NA	NA	ND	0.5	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	µg/l	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U
Trichloroethene	5	µg/l	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	0.9	0.8	2.0	0.97 J	0.77 J	1 U	0.67 J	ND	ND	0.52 J	1 U	1 U	1 U	1 U
Vinyl chloride	2	µg/l	2 U	2 UJ	ND	ND	0.21 U	2 U	2 U	2 U	2 U	**32**	**12**	**16**	2 U	2 U	1.6 J	2 U	ND	ND	0.21 U	2 U	2 U	2 U	2 U
Dissolved Gases																									
Ethane		µg/l	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	ND	22	78	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA
Ethene		µg/l	NA	NA	ND	ND	3 U	NA	NA	NA	NA	ND	470	39	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA
Methane		µg/l	NA	NA	ND	2.9	30 U	NA	NA	NA	NA	ND	5200	4200	NA	NA	NA	NA	ND	ND	1.2 U	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	0.32 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	0.47 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	0.45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	1.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			MW-16BR	MW-16BR	MW-16BR	MW-16BR	MW-16BR	MW-16BR	MW-16BR	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17BR	MW-17BR	MW-17BR	MW-17BR	MW-17BR	MW-17BR	MW-17BR	MW-17BR-dup	MW-17-dup
Date Collected:			7/24/2019	12/12/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/24/2019	12/13/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	7/24/2019	12/13/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023	4/12/2024	9/27/2023	3/21/2023
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	µg/l	ND	ND	0.14 U	1 U	1 UJ	0.17 J	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	µg/l	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	0.2 U	1 U	NA	NA	0.17 J	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	1 U
1,2-Dichloroethane	0.6	µg/l	ND	ND	0.31 U	1 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	1	µg/l	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 UJ	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	50 U	50 U
2-Butanone (MEK)	50	µg/l	ND	ND	1.6 U	20 U	20 U	20 U	20 UJ	ND	ND	1.6 U	20 U	20 U	20 U	20 UJ	ND	ND	1.6 U	20 U	20 U	20 U	20 UJ	20 U	20 U
Acetone	50	µg/l	ND	ND	2.1 J	50 U	3.6 J	50 U	6.2 J	ND	ND	2 U	50 U	3.8 J	4.8 J	6.4 J	ND	ND	2 U	50 U	3.9 J	50 U	6.4 J	50 U	50 U
Benzene	1	µg/l	ND	ND	0.2 U	1 U	**2.0**	**1.7**	0.23 J	ND	ND	0.2 U	1 U	0.44 J	0.37 J	1 U	ND	ND	0.2 U	1 U	**1.0**	1 U	1 U	1 U	1 U
Bromodichloromethane	50	µg/l	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	60	µg/l	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U	ND	0.6	1.4 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorodibromomethane	50	µg/l	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	µg/l	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloroform	7	µg/l	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloromethane	5	µg/l	ND	0.5	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	5	µg/l	ND	ND	0.15 U	1 U	1 UJ	0.91 J	1 U	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U	ND	ND	0.15 U	1 U	1 UJ	1 U	1 U	1 U	1 U
Cyclohexane	--	µg/l	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	ND	ND	NA	NA	5 U	5 U	5 U	5 U	NA
Dichloromethane	5	µg/l	ND	ND	0.23 U	5 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U	5 U	5 U
Diethyl ether	--	µg/l	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	2 U
Di-isopropyl ether	--	µg/l	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	0.5 UJ
Ethylbenzene	5	µg/l	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	µg/l	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	1 U	1 U
m&p-Xylenes	5	µg/l	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	2 U
Methyl Acetate	--	µg/l	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	ND	ND	0.45 U	1 U	1 UJ	1 U	1 UJ	1 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	ND	ND	1.1 U	10 U	10 U	10 U	10 U	ND	ND	1.1 U	10 UJ	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylcyclohexane	--	µg/l	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl-tert-butylether	10	µg/l	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	µg/l	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	1 U
tert-Butylbenzene	5	µg/l	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	1 U
Tetrachloroethene	5	µg/l	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	1 U	0.40 J
Tetrahydrofuran	50	µg/l	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	10 U
Toluene	5	µg/l	ND	ND	0.22 U	1 U	1 U	1 U	0.13 J	ND	ND	0.22 U	1 U	1 U	1 U	0.14 J	ND	ND	0.22 U	1 U	1 U	1 U	0.15 J	1 U	1 U
Total VOCs	--	µg/l	ND	ND	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	ND	ND	NA	NA	1 U	1 U	1 U	1 U	NA
trans-1,2-Dichloroethene	5	µg/l	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	µg/l	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	µg/l	ND	ND	0.21 U	2 U	2 U	2 U	2 U	ND	ND	0.21 U	2 U	2 U	2 U	2 U	ND	ND	0.21 U	2 U	2 U	2 UJ	2 U	2 UJ	2 U
Dissolved Gases																									
Ethane		µg/l	ND	ND	2.6 U	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	ND	ND	2.6 U	NA	NA	NA	NA	NA	NA
Ethene		µg/l	ND	ND	3 U	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA	ND	ND	3 U	NA	NA	NA	NA	NA	NA
Methane		µg/l	ND	ND	1.2 U	NA	NA	NA	NA	ND	ND	1.2 U	NA	NA	NA	NA	ND	ND	1.2 U	NA	NA	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			MW-17-dup	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R	MW-1R-dup	MW-1R-dup	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2-dup	MW-5	MW-5	MW-5
Date Collected:			9/27/2023	7/26/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023	4/12/2024	6/4/2024	6/7/2023	6/4/2024	7/23/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/13/2023	4/12/2024	6/4/2024	9/13/2023	7/23/2019	12/10/2019	11/30/2022
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																							
Detected VOCs																									
1,1,2-Trichloroethane	1	µg/l	1 U	ND	ND	0.37 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.18 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.18 U
1,1-Dichloroethane	5	µg/l	1 U	ND	ND	0.84 J	0.40 J	1.3	1.0	0.46 J	NA	1.2	NA	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.14 U
1,1-Dichloroethene	5	µg/l	1 U	ND	1.6	0.66 J	0.33 J	1 UJ	1 U	1 U	NA	1 UJ	NA	ND	ND	0.14 U	1 U	1 UJ	1 U	1 U	NA	NA	ND	ND	0.14 U
1,2,4-Trimethylbenzene	5	µg/l	NA	NA	NA	0.4 U	1 U	NA	NA	1 U	NA	NA	NA	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.2 U
1,2-Dichloroethane	0.6	µg/l	1 U	ND	ND	0.62 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.31 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.31 U
1,4-Dioxane	1	µg/l	50 U	ND	NA	41 U	50 U	50 U	50 U	NA	NA	50 U	NA	NA	NA	21 U	50 U	50 U	50 U	NA	NA	NA	NA	NA	21 U
2-Butanone (MEK)	50	µg/l	20 U	9.2	ND	3.2 U	20 U	20 U	20 U	1.7 J	NA	20 U	NA	ND	ND	1.6 U	20 U	20 U	20 U	1.5 J	NA	NA	ND	ND	1.6 U
Acetone	50	µg/l	50 U	**120**	34	4.1 U	50 U	50 U	50 U	7.6 J	NA	50 U	NA	3.6	ND	2 U	50 U	50 U	2.5 J	7.7 J	NA	NA	ND	ND	2 U
Benzene	1	µg/l	1 U	ND	ND	0.4 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.2 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.2 U
Bromodichloromethane	50	µg/l	0.5 U	ND	ND	0.36 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	ND	ND	0.70	0.30 J	0.5 U	0.5 U	0.5 U	NA	NA	ND	ND	0.18 U
Carbon Disulfide	60	µg/l	5 U	ND	ND	2.9 U	5 U	5 U	5 U	5 U	NA	5 U	NA	ND	ND	1.4 U	5 U	5 U	5 U	5 U	NA	NA	ND	ND	1.4 U
Chlorodibromomethane	50	µg/l	0.5 U	ND	ND	0.44 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	ND	ND	0.33 J	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	ND	ND	0.22 U
Chloroethane	5	µg/l	2 U	0.88	ND	0.64 U	2 U	2 U	2 U	2 U	NA	0.35 J	NA	ND	ND	0.32 U	2 U	2 U	2 U	2 U	NA	NA	ND	ND	0.32 U
Chloroform	7	µg/l	2 U	ND	ND	0.34 U	2 U	2 U	2 U	2 U	NA	2 U	NA	0.7	ND	0.17 U	0.59 J	0.53 J	0.30 J	2 U	NA	NA	ND	ND	0.17 U
Chloromethane	5	µg/l	2 U	ND	ND	1 U	2 U	2 U	2 U	2 U	NA	2 U	NA	ND	ND	0.52 U	2 U	2 U	2 UJ	2 U	NA	NA	ND	ND	0.52 U
cis-1,2-Dichloroethene	5	µg/l	1 U	**47**	**260**	**150**	**160**	**34**	**21 J**	**50**	NA	**31**	NA	**6.2**	2.4	0.63 J	0.66 J	1.1	0.97 J	1.0	NA	NA	ND	ND	0.58 J
Cyclohexane	--	µg/l	5 U	ND	ND	NA	NA	5 U	5 U	5 U	NA	5 U	NA	ND	ND	NA	NA	5 U	5 U	5 U	NA	NA	ND	ND	NA
Dichloromethane	5	µg/l	5 U	ND	ND	0.47 U	5 U	5 U	5 U	5 U	NA	5 U	NA	ND	ND	0.23 U	5 U	5 U	5 U	5 U	NA	NA	ND	ND	0.23 U
Diethyl ether	--	µg/l	NA	NA	NA	0.36 U	2 U	NA	NA	NA	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	NA	NA	0.18 U
Di-isopropyl ether	--	µg/l	NA	NA	NA	0.26 U	0.5 U	NA	NA	0.5 U	NA	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	NA	NA	0.13 U
Ethylbenzene	5	µg/l	1 U	ND	ND	0.43 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.21 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.21 U
Isopropylbenzene	5	µg/l	1 U	ND	ND	0.22 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.11 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.11 U
m&p-Xylenes	5	µg/l	NA	NA	NA	0.92 U	2 U	NA	NA	2 U	NA	NA	NA	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	NA	NA	0.46 U
Methyl Acetate	--	µg/l	1 U	ND	ND	0.91 U	1 U	1 U	1 U	1 UJ	NA	1 U	NA	ND	ND	0.45 U	1 U	1 U	1 U	1 UJ	NA	NA	ND	ND	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	10 U	3	ND	2.2 U	10 U	10 U	10 U	10 U	NA	10 U	NA	ND	ND	1.1 U	10 U	10 U	10 U	10 U	NA	NA	ND	ND	1.1 U
Methylcyclohexane	--	µg/l	1 U	ND	ND	0.49 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.24 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.24 U
Methyl-tert-butylether	10	µg/l	1 U	ND	ND	0.34 U	1 U	1 U	1 U	1 U	NA	1 U	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.17 U
o-Xylene	5	µg/l	NA	NA	NA	0.46 U	1 U	NA	NA	1 U	NA	NA	NA	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.23 U
tert-Butylbenzene	5	µg/l	NA	NA	NA	0.26 U	1 U	NA	NA	1 U	NA	NA	NA	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	NA	NA	0.13 U
Tetrachloroethene	5	µg/l	1 U	0.4	**90**	**200**	0.96 J	**12**	0.79 J	0.95 J	NA	**13**	NA	**37**	**30**	**15**	**11**	**12**	**16**	**13**	NA	NA	ND	ND	0.82 J
Tetrahydrofuran	50	µg/l	NA	NA	NA	0.98 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	NA	NA	0.49 U
Toluene	5	µg/l	1 U	ND	ND	0.45 U	1 U	1 U	1 U	0.21 J	NA	1 U	NA	ND	ND	0.22 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.22 U
Total VOCs	--	µg/l	NA	216	521	NA	NA	NA	NA	NA	NA	NA	NA	55	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	1 U	ND	ND	NA	NA	1 U	1 U	1 U	NA	1 U	NA	ND	ND	NA	NA	1 U	1 U	1 U	NA	NA	ND	ND	NA
trans-1,2-Dichloroethene	5	µg/l	1 U	ND	2.2	1.4 J	1.7	0.63 J	1 U	0.63 J	NA	0.59 J	NA	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA	NA	ND	ND	0.17 U
Trichloroethene	5	µg/l	1 U	0.7	**44**	**71**	4.8	**8.6**	4.1	4.8	NA	**8.3**	NA	**7.2**	4.1	1.8	0.90 J	1.1	1.6	1.1	NA	NA	ND	ND	0.54 J
Vinyl chloride	2	µg/l	2 UJ	**35**	**89**	**32**	**68 J**	**13**	**11 J**	**15**	NA	**13**	NA	ND	ND	0.21 U	2 UJ	2 U	2 U	2 U	NA	NA	ND	ND	0.21 U
Dissolved Gases																									
Ethane		µg/l	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	ND	2.6 U	NA	NA	NA	NA	NA	NA	NA	ND	2.6 U
Ethene		µg/l	NA	NA	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	ND	3 U	NA	NA	NA	NA	NA	NA	NA	ND	3 U
Methane		µg/l	NA	NA	14000	2400	NA	NA	NA	NA	NA	NA	NA	NA	ND	8.4 U	NA	NA	NA	NA	NA	NA	NA	15	1.2 U
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	4.46	NA	7.5	NA	NA	8.3	7.7	6.8	NA	NA	NA	NA	0.99 U	0.89 U	NA	0.9 U	0.88 U	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	1.44 U	NA	0.89	NA	NA	1.0 J	1.1	1.1	NA	NA	NA	NA	0.99 U	0.89 U	NA	0.9 U	0.88 U	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	ND	NA	3.67	NA	4.9	NA	NA	5.0	4.3	4.9	NA	NA	NA	NA	3.5	4.1 J	NA	3.0	5.8 J	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	ND	NA	7.92	NA	10 J+	NA	NA	11	10 J+	11	NA	NA	NA	NA	17	18 J+	NA	7.7	18 J+	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	ND	NA	10.1	NA	8.6	NA	NA	8.5	8.7	8.9	NA	NA	NA	NA	0.99 U	0.57 J	NA	0.41 J	0.56 J	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	ND	NA	4.1	NA	3.2	NA	NA	4.3	4.1	3.5	NA	NA	NA	NA	0.42 J	0.55 J	NA	0.50 J	0.54 J	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	8.6	NA	10.2	NA	13	NA	NA	17	14	16	NA	NA	NA	NA	9.3	10	NA	4.3	9.5	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	7.8	NA	8.42	NA	9.8	NA	NA	9.5	10	9.2	NA	NA	NA	NA	5.2 J+	6.0	NA	6.6	5.8	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	11	NA	14.3	NA	18	NA	NA	23	19	22	NA	NA	NA	NA	24	22	NA	7.5	23	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	1.44 U	NA	0.88 U	NA	NA	1 U	0.98 U	1.2 J	NA	NA	NA	NA	0.99 U	0.89 U	NA	0.9 U	0.88 U	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	4.3	NA	9.43	NA	8.7	NA	NA	8.2	8.5	8.5	NA	NA	NA	NA	1.6 J+	2.4	NA	1.3	2.2	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	ND	NA	7.92 J	NA	5.3 J	NA	NA	4.9 J	0.98 UJ	4.4 J	NA	NA	NA	NA	0.99 U	0.89 U	NA	0.9 U	0.88 U	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	**77**	NA	**415**	NA	**520 D**	NA	NA	**600**	**610 D**	**580**	NA	NA	NA	NA	**32 J+**	**35**	NA	**33**	**36**	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	**39**	NA	**49.9**	NA	**65**	NA	NA	**68**	**67**	**67**	NA	NA	NA	NA	**19 J+**	**22**	NA	**12**	**23**	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	2.66	NA	2.1	NA	NA	3.8	2.7	3.3	NA	NA	NA	NA	1.2	1.6	NA	1.5	1.8	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	ND	NA	19.1	NA	25	NA	NA	29	26	30	NA	NA	NA	NA	44	38	NA	9.1	38	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	ND	NA	1.44 U	NA	0.26 J	NA	NA	0.27 J	0.98 U	0.30 J	NA	NA	NA	NA	0.99 U	0.89 U	NA	0.9 U	0.88 U	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	147.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	30	NA	NA	40	32	68	NA	NA	NA	NA	10 U	42	NA	10 U	34	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or
NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 3
Summary of Groundwater Sampling Results
2021 Q2 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Location ID:			MW-5	MW-5	MW-5	MW-5	MW-5	MW-5-dup	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9	MW-9
Date Collected:			3/21/2023	6/7/2023	9/13/2023	4/12/2024	6/4/2024	3/21/2023	7/26/2019	12/11/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023	4/12/2024	6/4/2024	7/23/2019	12/11/2019	12/2/2022	3/21/2023	9/13/2023	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units																								
Detected VOCs																										
1,1,2-Trichloroethane	1	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.18 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.18 U	1 U	NA	ND	ND	1.8 U	2 U	1 U
1,1-Dichloroethane	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.14 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.14 U	1 U	NA	ND	ND	1.4 U	2 U	1 UJ
1,1-Dichloroethene	5	µg/l	1 U	1 UJ	1 U	1 U	NA	1 U	ND	ND	0.14 U	1 U	1 UJ	0.18 J	1 U	NA	ND	ND	0.14 U	1 U	NA	ND	ND	1.4 U	1.0 J	0.52 J
1,2,4-Trimethylbenzene	5	µg/l	1 U	NA	NA	1 U	NA	1 U	NA	NA	0.2 U	1 U	NA	NA	1 U	NA	NA	NA	0.2 U	1 U	NA	NA	NA	2 U	2 U	NA
1,2-Dichloroethane	0.6	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.31 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.31 U	1 U	NA	ND	ND	3.1 UJ	2 U	1 U
1,4-Dioxane	1	µg/l	50 U	50 U	50 U	NA	NA	50 U	0.31	NA	21 U	50 U	50 U	50 U	NA	NA	NA	NA	21 U	50 U	NA	NA	NA	210 U	100 U	50 UJ
2-Butanone (MEK)	50	µg/l	20 U	20 U	20 U	20 UJ	NA	20 U	36	ND	1.6 U	20 U	20 U	20 U	20 UJ	NA	ND	ND	1.6 U	20 U	NA	ND	ND	16 U	40 U	20 U
Acetone	50	µg/l	50 U	50 U	2.7 J	8.0 J	NA	50 U	**130**	ND	2 U	50 U	50 U	4.1 J	7.2 J	NA	ND	ND	3.1 J	50 U	NA	ND	ND	20 U	100 U	50 U
Benzene	1	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.24 J	0.19 J	0.25 J	0.45 J	1 U	NA	ND	ND	0.2 U	1 U	NA	ND	ND	2 U	2 U	1 U
Bromodichloromethane	50	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	ND	ND	0.18 U	0.5 U	NA	ND	ND	1.8 U	1 U	0.5 U
Carbon Disulfide	60	µg/l	5 U	5 U	5 U	5 U	NA	5 U	ND	ND	1.4 U	5 U	5 U	5 U	5 U	NA	ND	ND	1.4 U	5 U	NA	ND	ND	14 U	10 U	5 U
Chlorodibromomethane	50	µg/l	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	ND	ND	0.22 U	0.5 U	NA	ND	ND	2.2 U	1 U	0.5 U
Chloroethane	5	µg/l	2 U	2 U	2 U	2 U	NA	2 U	ND	ND	0.32 U	2 U	0.94 J	2 U	2 U	NA	ND	ND	0.32 U	2 U	NA	ND	ND	3.2 U	4 U	2 U
Chloroform	7	µg/l	2 U	2 U	2 U	2 U	NA	2 U	ND	ND	0.17 U	2 U	2 U	2 U	2 U	NA	ND	ND	0.17 U	2 U	NA	ND	ND	1.7 U	4 U	2 U
Chloromethane	5	µg/l	2 UJ	2 U	2 UJ	2 U	NA	2 U	ND	ND	0.52 U	2 U	2 U	2 U	2 U	NA	ND	ND	0.52 U	2 U	NA	ND	ND	5.2 U	4 U	2 U
cis-1,2-Dichloroethene	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	**5.3**	**130**	**5.9**	**17**	**19 J**	**62**	4.2	NA	ND	ND	0.15 U	1 U	NA	**200**	**47**	**840**	**250**	**130 J**
Cyclohexane	--	µg/l	NA	5 U	5 U	5 U	NA	NA	ND	0.3	NA	NA	5 U	5 U	5 U	NA	ND	ND	NA	NA	NA	2.3	2.3	NA	NA	2.1 J
Dichloromethane	5	µg/l	5 U	5 U	5 U	5 U	NA	5 U	ND	ND	0.23 U	5 U	5 U	5 U	5 U	NA	ND	ND	0.23 U	5 U	NA	ND	ND	2.3 U	10 U	5 U
Diethyl ether	--	µg/l	2 U	NA	NA	NA	NA	2 U	NA	NA	0.18 U	2 U	NA	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	1.8 U	4 U	NA
Di-isopropyl ether	--	µg/l	0.5 U	NA	NA	0.5 U	NA	0.5 UJ	NA	NA	0.13 U	0.5 U	NA	NA	0.5 U	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	1.3 U	1 U	NA
Ethylbenzene	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.21 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.21 U	1 U	NA	ND	ND	2.1 U	2 U	1 U
Isopropylbenzene	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.11 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.11 U	1 U	NA	ND	ND	1.1 U	2 U	1 U
m&p-Xylenes	5	µg/l	2 U	NA	NA	2 U	NA	2 U	NA	NA	0.46 U	2 U	NA	NA	2 U	NA	NA	NA	0.46 U	2 U	NA	NA	NA	4.6 U	4 U	NA
Methyl Acetate	--	µg/l	1 U	1 U	1 U	1 UJ	NA	1 U	ND	ND	0.45 U	1 U	1 U	1 U	1 UJ	NA	ND	ND	0.45 UJ	1 U	NA	ND	ND	4.5 U	2 U	1 UJ
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	10 U	10 U	10 U	10 U	NA	10 U	ND	ND	1.1 U	10 U	10 U	10 U	10 U	NA	ND	ND	1.1 U	10 U	NA	ND	ND	11 U	20 U	10 U
Methylcyclohexane	--	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.24 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.24 U	1 U	NA	0.9	0.7	2.4 U	2 U	1 U
Methyl-tert-butylether	10	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.17 U	1 U	NA	ND	ND	1.7 U	2 U	1 U
o-Xylene	5	µg/l	1 U	NA	NA	1 U	NA	1 U	NA	NA	0.23 U	1 U	NA	NA	1 U	NA	NA	NA	0.23 U	1 U	NA	NA	NA	2.3 U	2 U	NA
tert-Butylbenzene	5	µg/l	1 U	NA	NA	1 U	NA	1 U	NA	NA	0.13 U	1 U	NA	NA	1 U	NA	NA	NA	0.13 U	1 U	NA	NA	NA	1.3 U	2 U	NA
Tetrachloroethene	5	µg/l	1 U	1 U	1 U	1 U	NA	0.67 J	ND	ND	0.19 U	1 U	1 U	1 U	1 U	NA	ND	ND	0.19 U	1 U	NA	1.7	1.7	**460**	**74**	**55**
Tetrahydrofuran	50	µg/l	10 U	NA	NA	NA	NA	10 U	NA	NA	0.49 U	10 U	NA	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	4.9 U	20 U	NA
Toluene	5	µg/l	1 U	1 U	1 U	0.12 J	NA	1 U	0.7	0.9	0.22 U	1 U	1 U	1 U	0.17 J	NA	ND	ND	0.22 U	1 U	NA	ND	ND	2.2 U	2 U	1 U
Total VOCs	--	µg/l	NA	NA	NA	NA	NA	NA	176	302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	288	84	NA	NA	NA
Total Xylenes	5	µg/l	NA	1 U	1 U	1 U	NA	NA	ND	ND	NA	NA	1 U	1 U	1 U	NA	ND	ND	NA	NA	NA	ND	ND	NA	NA	1 U
trans-1,2-Dichloroethene	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	1.3	0.17 U	1 U	1 U	0.45 J	1 U	NA	ND	ND	0.17 U	1 U	NA	3.6	1.6	**9.1 J**	3.2	2.8 J
Trichloroethene	5	µg/l	1 U	1 U	1 U	1 U	NA	1 U	ND	ND	0.19 U	0.18 J	0.35 J	0.24 J	1 U	NA	ND	ND	0.19 U	1 U	NA	**26**	1.6	**370**	**140**	**130**
Vinyl chloride	2	µg/l	2 UJ	2 U	2 U	2 U	NA	2 U	**3.9**	**170**	**16**	**100 J**	**53**	**210**	**15**	NA	ND	ND	0.21 UJ	2 UJ	NA	**54**	**29**	**110**	**51 J**	**34**
Dissolved Gases																										
Ethane		µg/l	NA	NA	NA	NA	NA	NA	NA	67	91	NA	NA	NA	NA	NA	NA	ND	2.6 U	NA	NA	NA	24	36	NA	NA
Ethene		µg/l	NA	NA	NA	NA	NA	NA	NA	ND	11 J	NA	NA	NA	NA	NA	NA	ND	3 U	NA	NA	NA	15	5.6 J	NA	NA
Methane		µg/l	NA	NA	NA	NA	NA	NA	NA	20000	8000	NA	NA	NA	NA	NA	NA	ND	19	NA	NA	NA	6400	2100	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**																									
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	NA	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	NA	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	1.9 J+	2.9	NA	1.8	NA	2.1	NA	2.03	NA	1.4 J+	NA	NA	1.6	NA	NA	NA	NA	5.9 J	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	9.8 J+	11 J+	NA	5.8	NA	6.5	NA	6.95	NA	8.5 J+	NA	NA	7.9	NA	NA	NA	NA	4.9 J+	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	ND	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	ND	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	2.0 J+	3.0	NA	1.7	NA	2.9	NA	2.18	NA	2.2 J+	NA	NA	2.3	NA	NA	NA	NA	0.45 J	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	1.2 J+	1.1	NA	1.0	NA	1.4	NA	1.8	NA	1.8 J+	NA	NA	1.2	NA	NA	NA	NA	9.6 J	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	5.3 J+	6.3	NA	3.2	NA	5.6	NA	7.34	NA	7.0 J+	NA	NA	7.0	NA	NA	NA	NA	1.8	NA	NA	NA	NA	NA
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	NA	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	--	ng/l	NA	0.92 U	0.54 J	NA	0.36 J	NA	0.59	NA	1.09 J	NA	1.0 J+	NA	NA	0.91 J	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	0.92 U	0.29 J	NA	1 U	NA	0.4	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	0.92 U	1.7	NA	1.2 J	NA	5.6	NA	**42.1**	NA	**31 J+**	NA	NA	**31**	NA	NA	NA	NA	1.6	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	3.8 J+	6.7	NA	4.5	NA	8.7	NA	9.99	NA	8.7 J+	NA	NA	8.8	NA	NA	NA	NA	0.83 J	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	0.42 J	0.70 J	NA	0.52 J	NA	NA	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.40 J	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	10 J+	11	NA	4.9	NA	7.4	NA	9.83	NA	11 J+	NA	NA	11	NA	NA	NA	NA	2.0	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	0.92 U	0.9 U	NA	1 U	NA	ND	NA	1.56 U	NA	0.92 U	NA	NA	0.95 U	NA	NA	NA	NA	0.91 U	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	41.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	10 U	18	NA	12	NA	NA	NA	NA	NA	16	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

			Location ID:	MW-9	MW-9	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC	QAQC
			Date Collected:	9/27/2023	4/12/2024	11/29/2022	12/1/2022	12/14/2022	6/7/2023	9/13/2023	3/28/2024	4/12/2024	6/4/2024
CHEMICAL_NAME	NYSDEC TOGS 1 1 1 (GA GROUNDWATER)	Units											
Detected VOCs													
1,1,2-Trichloroethane	1	µg/l	0.32 J	1 U	0.18 U	NA	0.18 U	NA	NA	1 U	1 U	NA
1,1-Dichloroethane	5	µg/l	1 U	1 U	0.14 U	NA	0.14 U	NA	NA	1 U	1 U	NA
1,1-Dichloroethene	5	µg/l	0.66 J	1 U	0.14 U	NA	0.14 U	NA	NA	1 U	1 U	NA
1,2,4-Trimethylbenzene	5	µg/l	NA	1 U	0.2 U	NA	0.2 U	NA	NA	0.24 J	1 U	NA
1,2-Dichloroethane	0.6	µg/l	1 U	1 U	0.31 U	NA	0.31 U	NA	NA	1 U	1 U	NA
1,4-Dioxane	1	µg/l	50 U	NA	21 U	NA	21 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	50	µg/l	20 U	1.5 J	1.6 U	NA	1.6 U	NA	NA	20 U	20 UJ	NA
Acetone	50	µg/l	50 U	9.1 J	2 U	NA	2 U	NA	NA	50 UJ	2.4 J	NA
Benzene	1	µg/l	1 U	1 U	0.2 U	NA	0.2 U	NA	NA	1 U	1 U	NA
Bromodichloromethane	50	µg/l	0.5 U	0.5 U	0.18 U	NA	0.18 U	NA	NA	0.5 U	0.5 U	NA
Carbon Disulfide	60	µg/l	5 U	5 U	1.4 U	NA	1.4 U	NA	NA	5 U	5 UJ	NA
Chlorodibromomethane	50	µg/l	0.5 U	0.5 U	0.22 U	NA	0.22 U	NA	NA	0.5 U	0.5 U	NA
Chloroethane	5	µg/l	2 U	2 U	0.32 U	NA	0.32 U	NA	NA	2 U	2 U	NA
Chloroform	7	µg/l	2 U	2 U	0.92 J	NA	0.91 J	NA	NA	2 U	2 U	NA
Chloromethane	5	µg/l	2 U	2 U	0.52 U	NA	0.52 U	NA	NA	2 U	2 U	NA
cis-1,2-Dichloroethene	5	µg/l	**180**	**18**	0.15 U	NA	0.15 U	NA	NA	1 U	1 U	NA
Cyclohexane	--	µg/l	5 U	5 U	NA	NA	NA	NA	NA	5 U	5 U	NA
Dichloromethane	5	µg/l	5 U	5 U	0.23 U	NA	0.23 U	NA	NA	5 U	5 U	NA
Diethyl ether	--	µg/l	NA	NA	0.18 U	NA	0.18 U	NA	NA	NA	NA	NA
Di-isopropyl ether	--	µg/l	NA	0.5 U	0.13 U	NA	0.13 U	NA	NA	0.5 U	NA	NA
Ethylbenzene	5	µg/l	1 U	1 U	0.21 U	NA	0.21 U	NA	NA	0.28 J	1 U	NA
Isopropylbenzene	5	µg/l	1 U	1 U	0.11 U	NA	0.11 U	NA	NA	1 U	1 U	NA
m&p-Xylenes	5	µg/l	NA	2 U	0.46 U	NA	0.46 U	NA	NA	1.1 J	2 U	NA
Methyl Acetate	--	µg/l	1 U	1 UJ	0.45 U	NA	0.45 UJ	NA	NA	1 UJ	1 UJ	NA
Methyl N-Butyl Ketone (2-Hexanone)	50	µg/l	10 U	10 U	1.1 U	NA	1.1 U	NA	NA	10 U	10 U	NA
Methylcyclohexane	--	µg/l	1 U	1 U	0.24 U	NA	0.24 U	NA	NA	1 U	1 U	NA
Methyl-tert-butylether	10	µg/l	1 U	1 U	0.17 U	NA	0.17 U	NA	NA	1 U	NA	NA
o-Xylene	5	µg/l	NA	1 U	0.23 U	NA	0.23 U	NA	NA	0.28 J	1 U	NA
tert-Butylbenzene	5	µg/l	NA	1 U	0.13 U	NA	0.13 U	NA	NA	1 U	1 U	NA
Tetrachloroethene	5	µg/l	**14**	1 U	0.19 U	NA	0.19 U	NA	NA	1 U	1 U	NA
Tetrahydrofuran	50	µg/l	NA	NA	0.49 U	NA	0.49 U	NA	NA	NA	NA	NA
Toluene	5	µg/l	1 U	1 U	0.22 U	NA	0.22 U	NA	NA	1.8	1 U	NA
Total VOCs	--	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	5	µg/l	1 U	1 U	NA	NA	NA	NA	NA	1.1	1 U	NA
trans-1,2-Dichloroethene	5	µg/l	2.3	0.38 J	0.17 U	NA	0.17 U	NA	NA	1 U	1 U	NA
Trichloroethene	5	µg/l	**100**	1.7	0.19 U	NA	0.19 U	NA	NA	1 U	1 U	NA
Vinyl chloride	2	µg/l	**39**	**18**	0.21 U	NA	0.21 U	NA	NA	2 UJ	2 U	NA
Dissolved Gases													
Ethane		µg/l	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
Ethene		µg/l	NA	NA	3 U	NA	NA	NA	NA	NA	NA	NA
Methane		µg/l	NA	NA	13	NA	NA	NA	NA	NA	NA	NA
Detected PFAs and PFOs	**NYSDEC Maximum Contaminant Levels (MCL)**												
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.37 J	0.95 U	1 U	NA	1.1 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.9 U	0.95 U	1 U	NA	1.1 U
Perfluorobutane sulfonic acid (PFBS)	--	ng/l	NA	NA	NA	1.59 U	NA	0.26 J	0.95 U	1 U	NA	1.1 U
Perfluorobutanoic acid (PFBA)	--	ng/l	NA	NA	NA	6.36 U	NA	1.6 J	1.8 J	4.1 U	NA	4.2 U
Perfluorodecanoic acid (PFDA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.47 J	0.95 U	1 U	NA	1.1 U
Perfluoroheptane sulfonic acid (PFHpS)	--	ng/l	NA	NA	NA	1.59 U	NA	0.9 U	0.95 U	1 U	NA	1.1 U
Perfluoroheptanoic acid (PFHpA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.68 J	0.95 U	1 U	NA	1.1 U
Perfluorohexane sulfonic acid (PFHxS)	--	ng/l	NA	NA	NA	1.59 U	NA	0.61 J	0.95 U	1 U	NA	1.1 U
Perfluorohexanoic acid (PFHxA)	--	ng/l	NA	NA	NA	1.59 U	NA	1.0	0.95 U	1 U	NA	1.1 U
Perfluorononane sulfonic acid (PFNS)	--	ng/l	NA	NA	NA	1.59 U	NA	0.9 U	0.95 U	1 U	NA	1.1 U
Perfluorononanoic acid (PFNA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.50 J	0.95 U	1 U	NA	1.1 U
Perfluorooctane sulfonamide (PFOSA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.35 J	0.95 U	1 U	NA	1.1 U
Perfluorooctane sulfonic acid (PFOS)	10	ng/l	NA	NA	NA	1.59 U	NA	**31**	0.95 U	1 U	NA	1.1 U
Perfluorooctanoic acid (PFOA)	10	ng/l	NA	NA	NA	1.59 U	NA	3.3	0.95 U	1 U	NA	1.1 U
Perfluoropentane sulfonic acid (PFPeSA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.9 U	0.95 U	1 U	NA	1.1 U
Perfluoropentanoic acid (PFPeA)	--	ng/l	NA	NA	NA	3.18 U	NA	1.5 J	1.9 U	2.1 U	NA	2.1 U
Perfluoroundecanoic acid (PFUdA)	--	ng/l	NA	NA	NA	1.59 U	NA	0.9 U	0.95 U	1 U	NA	1.1 U
Total Perfluoroalkylated substances (PFASs)	--	ng/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	mg/l	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U

Notes:
µg/L - micrograms per liter.
ng/L - nanograms per liter.
Highlighted cells exceed corresponding NYSDEC Class GA Standard (VOCs) or NYSDEC Maximum Contaminant Level (PFOS and PFOA)
J - Indicates an estimated value.
J+ - Indicates an estimated value, but the result may be biased high
D - Value obtained from a dilution
ND - Not detected.
U - The compound was not detected above the listed quantitation limit.

Table 4
Proposed 2024 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Well ID	VOCs Method 8260	PFAS 40 compound Method 1633
MW-1R	X	X
MW-2	X	X
MW-5	X	X
MW-7	X	X
MW-8		
MW-9	X	
MW-10		X
MW-10BR	X	
MW-11		
MW-12	X	X
MW-13	X	X
MW-14	X	X
MW-14BR	X	
MW-15		
MW-15BR	X	X
MW-16		
MW-16BR		
MW-17		
MW-17BR		
IW-1		
IW-2		
IW-3		
IW-4		
IW-5		
IW-6		
IW-7		
IW-8		
IW-9		
IW-10		
IW-11		
IW-12		
IW-13		
IW-14	X	
IW-15		
IW-16		
IW-17	X	
IW-18	X	X
IW-19		
IW-20		
IW-21		
IW-22		
IW-23		
IW-24		
IW-25	X	X
IW-26		
IW-27		
IW-28		
IW-29	X	
IW-30		
IW-31	X	X

APPENDIX A

Field Sampling Logs

ARCADIS

Low Flow Groundwater Purging and Sampling Form

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Project No. 30135043 Well ID MW-1R Date 06/04/24

Project Name/Location Jacks Cleaners Weather

Measuring Pt. Description TOC Screen Setting (ft-bmp) 8-18 ~~8-10~~ Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-btoc) ~~3.59~~ 3.54 (5.0) Total Depth (ft-btoc) 18.55 Water Column/ Gallons in Well 2.39 Wellhead PID Reading (ppm) ___

MP Elevation ___ Pump Intake (ft-btoc) ~15 Purge Method: Peristaltic X Submersible ___ Bladder ___ Sample Method low-flow

Pump On/Off 1130/1140 Volumes Purged 9

Sample Time: Label 1115 Start ___ End 1140 Replicate/ Code No. Dup-20240604 Water Quality Meter Make/Model: YSI Sampled by JL

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft) BR	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1030	0	200	~~3.59~~ 3.54	0	7.22	2.11	193	1.81	15.9	-104.8	colorless	none
1035	5	200	4.61	1	6.84	0.68	44.6	0.48	12.9	-93.0		
1040	10	200	4.76	2	6.81	0.583	22.1	0.33	12.9	-93.8		
1045	15	200	4.86	3	6.79	0.500	19.3	0.27	12.8	-96.4		
1050	20	200	4.92	4	6.80	0.481	20.7	0.38	13.0	-97.3		
1055	25	200	4.97	5	6.80	0.467	18.0	0.59	13.0	-98.1		
1100	30	200	5.01	6	6.81	0.461	16.8	0.37	13.1	-98.8		
1105	35	200	5.01	7	6.82	0.459	11.5	0.32	13.1	-98.8		
1110	40	200	5.01	8	6.80	0.456	10.2	0.28	13.1	-98.4		
1115	45	200	5.01	9	6.82	0.457	9.8	0.27	13.1	-97.9		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS-1633	2x500ml, 1x(250ml 40ml VOAs	3 3	none HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: patch of grass behind Nail Salon Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well:

ARCADIS Low Flow Groundwater Purging and Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-2 Date 05/06/04/24

Project Name/Location Jack's Cleaners Weather 70°F's and sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) 5-15 | Casing Diameter (in.) 2" | Well Material X PVC ___ SS

Static Water Level (ft-btoc) 4.03 | Total Depth (ft-btoc) 13.95 | Water Column/ Gallons in Well 1.58 9 | Wellhead PID Reading (ppm) ___

MP Elevation ___ | Pump Intake (ft-btoc) 4 10 | Purge Method: Peristaltic X, Submersible ___, Bladder ___ | Sample Method Low-Flow

Pump On/Off 0845/0925 | Volumes Purged 6 | Water Quality Meter Make/Model: YSI | Sampled by JH

Sample Time: Label 0915 | Start 0915 | End 0925 | Replicate/ Code No. ___

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0845	D	200	4.03	0	7.61	4.37	11.3	1.04	12.6	107.0	Colorless	None
0850	5	200	4.06	1	7.61	4.33	8.93	0.67	13.5	98.5	"	"
0855	10	200	4.06	2	7.62	4.23	0.96	0.59	14.0	94.0	"	"
0900	15	200	4.05	3	7.62	4.07	0.87	0.66	14.0	89.7	"	"
0905	20	200	4.05	4	7.62	4.00	0.66	0.75	14.2	86.9	"	"
0910	25	200	4.05	5	7.62	3.98	0.73	0.75	14.2	86.4	"	"
0915	30	200	4.05	6	7.63	3.97	0.52	0.80	14.2	85.3	"	"
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS-1633	2x500ml, 1x125ml	3	None
VOCs-8260	40ml VOAs	3	HCL

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: In parking lot behind nail salon

Condition of Well: good

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well: ___

Low Flow GW Samp Form

ARCADIS

Low Flow Groundwater Purging and Sampling Form

Page 1 of 1

Project No. 30135043 | Well ID MW-5 | Date 6/4/2024

Project Name/Location Jack's Cleaners - Brewerton, NY | Weather 70°F, Sun

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): 5-15 | Casing Diameter (in.): 2" | Well Material: X PVC, ___ SS

Static Water Level (ft-btoc): 4.18 | Total Depth (ft-btoc): 14.61 | Water Column/ Gallons in Well: 10.43/1.70 | Wellhead PID Reading (ppm): —

MP Elevation: — | Pump Intake (ft-btoc): ~12 | Purge Method: Low-Flow | Sample Method: Low-Flow

Pump On/Off: 0835/0958 | Volumes Purged: 2.0 | Peristaltic: X | Submersible: | Bladder:

Sample Time: Label 0930, Start 0930, End 0958 | Replicate/ Code No.: ms/msd | Water Quality Meter Make/Model: YSI Pro+/Hach 2000Q | Sampled by: BKW

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0840	5	130	4.21		7.59	1.05	19.1	1.20	15.6	23.5	clear	none
0845	10	130	4.22		7.64	1.04	23.7	0.81	15.8	9.3		
0850	15	150	4.22	0.5	7.65	1.04	14.3	0.65	16.0	-5.0		
0855	20	150	4.22		7.65	1.02	19.2	0.56	16.0	-25.7		
0900	25	150	4.22	0.75	7.66	1.00	14.0	0.48	16.3	-42.2		
0905	30	150	4.22	1.0	7.67	1.00	10.0	0.46	16.4	-50.8		
0910	35	150	4.22	1.2	7.67	1.00	6.56	0.41	16.6	-55.1		
0915	40	150	4.22	1.4	7.68	1.00	4.41	0.38	16.6	-56.4		
0920	45	150	4.22	1.6	7.69	1.00	4.14	0.35	16.4	-58.0		
0925	50	150	4.22	1.8	7.68	1.00	4.48	0.34	16.4	-59.0		
0930	SAMPLED											
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2x ~~250~~ 500 ml, 1x 125ml	~~3~~ 9	none
VOCs - 8260	3x 40mL VOA	~~3~~ 9	HCL

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: asphalt, west of building | Well Locked at Arrival: Yes / (No)

Condition of Well: okay - no bolts | Well Locked at Departure: Yes / (No)

Well Completion: (Flush Mount) / Stick Up | Key Number To Well: —

ARCADIS Low Flow Groundwater Purging and Sampling Form

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Project No. 30135043 Well ID MW-7 Date 10/10/24

Project Name/Location Jains Cleaners Weather

Measuring Pt. Description TOC Screen Setting (ft-bmp) 9.5-19.5 Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-btoc) 4.50 Total Depth (ft-btoc) 19.11 Water Column/ Gallons in Well ~~14.6~~ 2.33 Wellhead PID Reading (ppm) ___

MP Elevation ___ Pump Intake (ft-btoc) ~18 Purge Method: Peristaltic X Submersible ___ Bladder ___ Sample Method low flow

Pump On/Off 1405 / 1455 Volumes Purged 8 gal

Sample Time: Label 1445 Start 1405 End 1455 Replicate/ Code No. ___ Water Quality Meter Make/Model: YSI Sampled by JH

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1405	0	200	4.50	0	7.19	1.28	38.6	2.78	13.9	-56.3	clear	none
1410	5	200	4.63	1	7.19	1.17	30.5	0.47	11.3	-54.9		
1415	10	200	4.65	2	7.16	1.17	16.2	0.52	11.2	-63.4		
1420	15	200	4.68	3	7.10	1.17	9.59	0.51	11.1	-68.5		
1425	20	200	4.68	4	7.07	1.17	8.57	0.44	11.1	-68.9		
1430	25	200	4.69	5	7.05	1.17	6.59	0.58	11.3	-68.7		
1435	30	200	4.69	6	7.04	1.17	6.02	0.42	11.4	-71.5		
1440	35	200	4.69	7	7.04	1.17	6.30	0.35	11.2	-71.6		
1445	40	200	4.69	8	7.03	1.17	6.22	0.31	11.1	-72.7		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2 x 500ml, 1x125 ml	3	none
VOCs - 8260	40 ml VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: near the free line

Condition of Well: missing bolts

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well:

ARCADIS

Low Flow Groundwater Purging and Sampling Form

Project No. 30135043 | Well ID MW-10 | Date 6-5-2024

Project Name/Location Jack's Cleaners - Brewerton, NY | Weather 80°F, sun

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): 5.5-15.5 | Casing Diameter (in.): 2" | Well Material: X PVC, ___ SS

Static Water Level (ft-btoc): 5.22 | Total Depth (ft-btoc): 17.82 | Water Column/ Gallons in Well: 12.60/ 2.05 | Wellhead PID Reading (ppm): —

MP Elevation: — | Pump Intake (ft-btoc): ~10 | Purge Method: Low-Flow | Sample Method: Low-Flow

Pump On/Off: 0905/ 1211 | Volumes Purged: 4.25 | Peristaltic: X | Submersible: | Bladder:

Sample Time: Label 1200, Start 1159, End 1211 | Replicate/ Code No.: — | Water Quality Meter Make/Model: YSI | Sampled by: BKW

Stabilization parameters 3 readings *(not reqr'd by SOP)*:

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH 0.1	Cond. (µMhos) (mS/cm) 3%	Turbidity (NTU) 10%	Dissolved Oxygen (mg/L) (10%)	Temp. (°F) 3%	Redox (mV) (10%)	Appearance Color	Appearance Odor
0910	5	120	6.40		7.15	2.39	84.4	3.23	14.1	-80.7	cloudy	none
0915	10	120	6.78		7.21	2.16	209	2.15	13.7	-85.8		
0920	15	100	6.81	0.5	7.21	2.43	316	1.26	14.2	-86.8		
0925	20	100	6.78		7.21	2.43	396	0.99	14.7	-87.7		
0930	25	100	6.75	0.75	7.22	2.42	280	0.82	15.0	-88.0		
0935	30	100	6.72		7.21	2.39	311	0.75	14.9	-87.7		
0940	35	100	6.70		7.23	2.40	257	0.67	14.7	-90.4		
0945	40	100	6.68	1.0	7.22	2.40	195	0.60	14.7	-91.4		
0950	45	100	6.65		7.23	2.42	161	0.59	14.5	-92.3		
1000	50	100	6.68	1.25	7.24	2.45	130	0.56	14.3	-93.5		
1005	55	100	6.66		7.24	2.44	120	0.50	14.2	-93.9		
1010	60	100	6.65	1.5	7.24	2.43	107	0.45	14.9	-94.7		
1015	65	100	6.65		7.26	2.45	97.4	0.43	14.4	-94.7		
1020	70	100	6.65	1.75	7.26	2.46	87.8	0.43	14.3	-94.9		
1025	75	100	6.65		7.24	2.24	89.8	0.40	14.8	-95.4		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2x 500ml, 1x 125ml	3	none
~~VOCs - 8260~~	40ml VOA	3	HCL (BKW)

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Grassy Field South of IW's | Well Locked at Arrival: (Yes) / No

Condition of Well: Good | Well Locked at Departure: (Yes) / No

Well Completion: Flush Mount / (Stick Up) | Key Number To Well: Master 2537

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. _____ Well ID MW-10 Date _____

Project Name/Location _____ Weather _____

Measuring Pt. Description TOC | Screen Setting (ft-bmp) _____ | Casing Diameter (in.) _____ | Well Material ___ PVC ___ SS

Static Water Level (ft-btoc) _____ | Total Depth (ft-btoc) _____ | Water Column/ Gallons in Well _____ | Wellhead PID Reading (ppm) _____

MP Elevation _____ | Pump Intake (ft-btoc) _____ | Purge Method: _____ | Sample Method _____

Pump On/Off _____ | Volumes Purged _____ | Peristaltic ___ Submersible ___ Bladder ___

Sample Time: Label _____ Start _____ End _____ | Replicate/ Code No. _____ | Water Quality Meter Make/Model: _____ | Sampled by _____

see Page 1

Stabilization parameters 3 readings *(not reqr'd by SOP)*: | 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°F)	Redox (mV)	Appearance Color	Appearance Odor
1030	80	100	6.65	2.0	7.25	2.48	82.0	0.39	13.6	-94.6	cloudy	none
1035	85	100	6.70	~~2.25~~	7.24	2.46	89.8	0.37	14.1	-94.0		
1040	90	100	6.78	2.25	7.24	2.46	83.8	0.35	14.7	-95.7		
1045	95	100	6.74		7.24	2.51	96.1	0.35	14.1	-96.9		
1050	100	100	6.75	2.5	7.24	2.51	79.2	0.34	14.2	-96.7		
1055	105	100	6.73		7.25	2.52	79.7	0.33	14.0	-96.6		
1100	110	100	6.73	2.75	7.25	2.52	67.2	0.33	14.4	-97.0		
~~1110~~ 1105	115	100	6.75		7.24	2.53	68.6	0.34	14.4	-97.0		
1110	120	100	6.75	3.0	7.24	2.53	62.7	0.32	14.5	-97.0	clear	
1115	125	100	6.71		7.24	2.54	55.5	0.34	14.5	-96.9		
1120	130	100	6.72	3.25	7.24	2.53	53.2	0.32	14.1	-96.2		
1125	135	100	6.70	3.5	7.24	2.54	50.2	0.32	14.2	-96.3		
1130	140	100	6.72		7.23	2.54	50.7	0.32	14.5	-96.6		
1135	145	100	6.70	3.75	7.24	2.54	50.1	0.31	14.4	-96.5		
1140	150	100	6.70		7.24	2.54	48.8	0.31	14.3	-96.1		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

See page 1

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. _____ Well ID MW-10 Date _____

Project Name/Location _____ Weather _____

Measuring Pt. Description TOC | Screen Setting (ft-bmp) _____ | Casing Diameter (in.) _____ | Well Material ___PVC ___SS

Static Water Level (ft-btoc) _____ | Total Depth (ft-btoc) _____ | Water Column/ Gallons in Well _____ | Wellhead PID Reading (ppm) _____

MP Elevation _____ | Pump Intake (ft-btoc) _____ | Purge Method: _____ | Sample Method _____

Pump On/Off _____ | Volumes Purged _____ | Peristaltic / Submersible / Bladder _____

Sample Time: Label _____ Start _____ End _____ | Replicate/ Code No. _____ | Water Quality Meter Make/Model: _____ | Sampled by _____

see page 1

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | *(10%)* | 3% | *(10%)*

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°F)	Redox (mV)	Appearance Color	Appearance Odor
1145	155	100	6.69	4.0	7.24	2.55	43.6	0.31	14.3	-96.4	clear	none
1150	160	100	6.69		7.24	2.53	46.4	0.31	14.6	-96.5	↓	↓
1155	165	100		4.25	7.24	2.53	46.4	0.31	14.6	-95.8		
1200	S	A	m	P	L	E	D					
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

Low Flow GW Sampling Form

See page 1

ARCADIS Low Flow Groundwater Purging and Sampling Form

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Project No. 30135043 Well ID MW-12 Date 6/4/2024

Project Name/Location Jack's Cleaners - Brewerton, NY Weather ~78°F, Sun

Measuring Pt. Description TOC Screen Setting (ft-bmp) 4-14 Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-btoc) 5.07 Total Depth (ft-btoc) 11.91 Water Column/ Gallons in Well 6.84 / 1.11 Wellhead PID Reading (ppm) —

MP Elevation — Pump Intake (ft-btoc) ~11 Purge Method: Low-Flow Peristaltic X Submersible ___ Bladder ___ Sample Method Low-Flow

Pump On/Off 1100/1203 Volumes Purged 2.25

Sample Time: Label 1155 Start 1153 End 1203 Replicate/ Code No. — Water Quality Meter Make/Model: YSI Pro+/Hach 2100Q Sampled by BKW

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°F)	Redox (mV)	Appearance Color	Appearance Odor
1105	5	160	5.55		7.12	1.03	27.4	0.42	13.3	-103.2	clear	none
1110	10	160	5.63	0.5	7.13	1.03	50.5	0.35	13.0	-103.5		
1115	15	140	5.65	0.75	7.15	1.02	35.7	0.34	13.6	-103.9		
1120	20	150	5.65	1.0	7.14	0.99	42.6	0.44	13.0	-103.2		
1125	25	150	5.61	1.2	7.14	1.00	36.9	0.37	14.0	-103.6		
1130	30	150	5.60	1.4	7.15	0.98	37.4	0.32	13.7	-104.5		
1135	35	150	5.60	1.6	7.15	0.96	22.5	0.32	13.8	-105.3		
1140	40	150	5.61	1.8	7.18	0.93	17.9	0.29	13.8	-105.7		
1145	45	150	5.60	2.0	7.19	0.95	18.6	0.30	13.9	-105.9		
1150	50	150	5.60	2.2	7.22	0.94	16.3	0.30	14.0	-105.4		
1155	SAMPLED											
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2x ~~250~~ 500ml, 1x 125ml	3	none
VOCs - 8260	40ml VOA	3	HCl

Well Casing Volumes

Gallons/Foot 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: Wood area near IW-9 Well Locked at Arrival: (Yes) / No

Condition of Well: Good Well Locked at Departure: (Yes) / No

Well Completion: Flush Mount / (Stick Up) Key Number To Well: Master 2537

ARCADIS Low Flow Groundwater Purging and Sampling Form

Page 1 of 1

Project No. 30135043 Well ID MW-13 Date 06/03/2024

Project Name/Location JACKS Cleaners Brewerton Weather 82 and Partly Cloudy

Measuring Pt. Description TOC Screen Setting (ft-bmp) 10.5-20.5 Casing Diameter (in.) 2in Well Material X PVC ___ SS

Static Water Level (ft-btoc) 4.65 Total Depth (ft-btoc) 28.46 Water Column/ Gallons in Well 3.869 Wellhead PID Reading (ppm) —

MP Elevation — Pump Intake (ft-btoc) ~25 Purge Method: Sample Method ~~Peri Pump~~ Low Flow (FM)

Pump On/Off 1400 / 1510 Volumes Purged 10 Peristaltic X Submersible ___ Bladder ___

Sample Time: Label 1450 Start 1400 End 1510 Replicate/ Code No. — Water Quality Meter Make/Model: YSI Sampled by JH

Stabilization parameters 3 readings *(not reqr'd by SOP)*:

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	0.1 pH	3% Cond. (µMhos) (mS/cm)	10% Turbidity (NTU)	(10%) Dissolved Oxygen (mg/L)	3% Temp. (°C) (°F)	(10%) Redox (mV)	Appearance Color	Appearance Odor
1400	0	200	4.65	0	7.04	1.54	19.6	3.61	12.9	-49.3	colorless	none
1405	5	200	4.89	1	6.98	1.54	7.83	3.32	12.7	-48.0	"	"
1410	10	200	4.89	2	6.98	1.54	5.23	2.42	12.6	-48.1	"	"
1415	15	200	4.90	3	7.01	1.52	4.99	2.04	12.6	-50.5	"	"
1420	20	200	4.90	4	7.01	1.51	4.02	1.60	12.4	-52.0	"	"
1425	25	200	4.90	5	7.02	1.50	3.35	1.07	12.3	-53.0	"	"
1430	30	200	4.92	6	7.04	1.49	4.15	0.72	12.3	-53.8	"	"
1435	35	200	4.92	7	7.04	1.48	4.69	0.50	12.2	-53.4	"	"
1440	40	200	4.92	8	7.03	1.49	3.72	0.29	12.2	-53.6	"	"
1445	45	200	4.92	9	7.03	1.50	3.55	0.16	12.1	-53.3	"	"
1450	50	200	4.92	10	7.04	1.50	3.01	0.11	12.2	-53.2	"	"
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2x500ml, 1x125ml	3	none
VOCs - 8260	40ml VOA	3	HCL

Well Casing Volumes

Gallons/Foot 1" = 0.04 1.25" = 0.06 1.5" = 0.09 2" = 0.16 2.5" = 0.26 3" = 0.37 3.5" = 0.50 4" = 0.65 6" = 1.47

Well Information

Well Location: ~~MW~~ Well Locked at Arrival: ~~Yes~~ / No

Condition of Well: good Well Locked at Departure: ~~Yes~~ / No

Well Completion: Flush Mount / Stick Up Key Number To Well:

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. 30135043 | Well ID MW-14 | Date 6-24-2024

Project Name/Location Jacks Cleaners - Brewerton, NY | Weather 90°F, Sun

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): 13-23 | Casing Diameter (in.): 2" | Well Material: X PVC, SS

Static Water Level (ft-btoc): 4.21 | Total Depth (ft-btoc): 25.25 | Water Column/ Gallons in Well: 21.04/3.43 | Wellhead PID Reading (ppm): —

MP Elevation: — | Pump Intake (ft-btoc): ~20 | Purge Method: Low-Flow; Peristaltic X; Submersible; Bladder | Sample Method: Low-Flow

Pump On/Off: 1300/1456 | Volumes Purged: 3.5

Sample Time: Label 1445; Start 1445; End 1456 | Replicate/ Code No.: — | Water Quality Meter Make/Model: YSI Pro+/Hach 2100Q | Sampled by: BKW

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1305	5	125	5.00		6.76	1.39	220	0.52	14.7	-55.0	*	slight
1310	10	125	5.05		6.75	1.39	127	0.40	15.2	-60.0		
1315	15	125	5.25	0.5	6.75	1.40	99.0	0.35	15.3	-63.3		
1320	20	125	5.40		6.79	1.40	101	0.31	15.2	-68.3		
1325	25	125	5.62		6.80	1.41	88.7	0.32	14.8	-72.4		
1330	30	125	5.69	1.0	6.79	1.40	84.4	0.29	15.2	-77.3		
1335	35	125	5.70		6.84	1.39	96.0	0.25	14.8	-81.5		
1340	40	125	5.70		6.84	1.40	101	0.30	14.6	-83.5		
1345	45	125	5.70	1.5	6.89	1.38	81.9	0.29	15.1	-88.4		
1350	50	125	5.82		6.88	1.40	83.4	0.30	14.9	-90.4		
1355	55	125	6.00		6.93	1.39	79.4	0.29	14.7	-92.3		
1400	60	125	6.21	2.0	6.93	1.39	76.8	0.31	15.1	-95.3		
1405	65	125	6.21		6.95	1.39	76.5	0.31	14.7	-97.8		
1410	70	125	6.23		6.96	1.38	58.1	0.30	14.5	-101.0		
1415	75	125	6.25	2.5	6.96	1.38		0.30	14.6	-101.9	↓	↓
Approx. value difference b/t 3rd & 2nd to last reading:					—	—	—	—	—	—	—	—
Approx. value difference b/t 2nd to last & final reading:					—	—	—	—	—	—	—	—

* white suspended particles

Constituents Sampled	Container	Number	Preservative
PFAS-1633	2x 500ml, 1x 125ml	3	none
VOCs-8260	40ml VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Grass, ~~not~~ east of shubline

Condition of Well: okay - casing (metal) cap not connected to riser

Well Completion: Flush Mount / (Stick Up)

Well Locked at Arrival: (Yes) / No

Well Locked at Departure: (Yes) / No

Key Number To Well: Master 2537

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. _____ Well ID MW-14 Date 6-4-2024

Project Name/Location _____ Weather _____

Measuring Pt. Description TOC | Screen Setting (ft-bmp) _____ | Casing Diameter (in.) _____ | Well Material ___ PVC ___ SS

Static Water Level (ft-btoc) _____ | Total Depth (ft-btoc) _____ | Water Column/ Gallons in Well _____ | Wellhead PID Reading (ppm) _____

MP Elevation _____ | Pump Intake (ft-btoc) _____ | Purge Method: _____ | Sample Method _____

Pump On/Off _____ | Volumes Purged _____ | Peristaltic _____ Submersible _____ Bladder _____

Sample Time: Label _____ Start _____ End _____ | Replicate/ Code No. _____ | Water Quality Meter Make/Model: _____ | Sampled by _____

see page 1

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | *(10%)* | 3% | *(10%)*

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1420	80	125	6.24		6.95	1.38	50.5	0.23	14.5	-102.8	*	slight
1425	85	125	6.22	3.0	6.95	1.37	57.8	0.30	14.4	-104.1	↓	↓
1430	90	125	6.23		6.96	1.36	48.8	0.23	15.0	-105.3		
1435	95	125	6.24		7.00	1.38	48.9	0.31	14.6	-106.4		
1440	100	125	6.24	3.5	6.97	1.38	47.0	0.29	14.6	-107.1		
1445	S	A	M P	L	E	D						
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

* trace white susp. particles

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

Low Flow GW Samp Form

SEE PAGE 1

ARCADIS

Low Flow Groundwater Purging and Sampling Form

Page 1 of 1

Project No. 30135043 Well ID IW-18 Date 06/05/24

Project Name/Location JACKS Cleaners Weather 70s Sunny

Measuring Pt. Description TOC | Screen Setting (ft-bmp) 10-20 | Casing Diameter (in.) 2" | Well Material X PVC / SS

Static Water Level (ft-btoc) 3.78 | Total Depth (ft-btoc) 22.13 | Water Column/ Gallons in Well 3.46 | Wellhead PID Reading (ppm) —

MP Elevation — | Pump Intake (ft-btoc) ~18 | Purge Method: Peristaltic X / Submersible / Bladder | Sample Method Low-flow

Pump On/Off 0905/1020 | Volumes Purged 12

Sample Time: Label 1005 | Replicate/ Code No. — | Water Quality Meter Make/Model: | Sampled by JH

Start 1005 End 1020

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
0905	0	200	3.78	0	6.62	3.77	76.7	0.56	12.4	-61.5	Colorless	Odorless
0910	5	200	4.29	1	6.90	3.79	63.4	1.53	12.3	-59.2	"	"
0915	10	200	4.51	2	6.90	3.78	68.1	0.65	12.1	-57.4	"	"
0920	15	200	4.72	3	6.88	3.61	70.2	0.29	11.9	-54.4	"	"
0925	20	200	4.84	4	6.89	3.54	54.4	0.23	11.9	-53.2	"	"
(SW) 0930	~~0927~~ 25	200	4.93	5	6.88	3.46	43.1	0.00	11.9	-51.2	"	"
0935	30	200	~~4.95~~ 5.01	6	6.89	3.33	41.5	0.19	12.0	-49.4	"	"
0940	35	200	5.04	7	6.88	3.18	37.8	0.16	11.8	-47.1	"	"
0945	40	200	5.05	8	6.88	3.19	35.1	0.11	11.9	-47.6	"	"
0950	45	200	5.07	9	6.89	3.10	23.9	0.12	12.0	-47.3	"	"
0955	50	200	5.07	10	6.89	3.02	21.0	0.08	11.9	-47.4	"	"
1000	55	200	5.07	11	6.90	3.01	19.4	0.07	11.8	-47.9	"	"
1005	60	200	5.07	12	6.90	3.01	18.3	0.05	11.8	-49.7	"	"
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS-1633	2x500ml 1x125ml	3	None
VOCs-8260	40ml VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: | Well Locked at Arrival: Yes / No

Condition of Well: | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

Low Flow GW Samp Form

ARCADIS

Low Flow Groundwater Purging and Sampling Form

Page 1 of 1

Project No. 30135043 | Well ID IW-25 | Date 06/04/24

Project Name/Location Jacks Cleaners - Brewerton, NY | Weather 80s and sunny

Measuring Pt. Description: TOC | Screen Setting (ft-bmp): 4-14 | Casing Diameter (in.): 2' | Well Material: X PVC / SS

Static Water Level (ft-btoc): 2.71 | Total Depth (ft-btoc): 18.91 | Water Column/ Gallons in Well: 16.91 2.59 | Wellhead PID Reading (ppm):

MP Elevation: | Pump Intake (ft-btoc): ~15 | Purge Method: | Sample Method: Low-Flow

Pump On/Off: 1245/1345 | Volumes Purged: 7 | Peristaltic X / Submersible / Bladder

Sample Time: Label 1326 | Start 1320 | End 1345 | Replicate/ Code No.: — | Water Quality Meter Make/Model: YSI | Sampled by: JL

Stabilization parameters 3 readings (not reqr'd by SOP):

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	0.1 pH	3% Cond. (µMhos) (mS/cm)	10% Turbidity (NTU)	(10%) Dissolved Oxygen (mg/L)	3% Temp. (°C)	(10%) Redox (mV)	Appearance Color	Appearance Odor
1245	0	200	2.71	0	6.82	1.50	44.9	0.67	13.4	-33.8	Colorless	none
1250	5	200	2.93	1	7.00	1.83	25.6	0.27	13.1	-48.0	"	
1255	10	200	2.95	2	7.17	1.50	17.9	0.35	13.2	-60.0		
1300	15	200	2.95	3	7.22	1.61	15.3	0.22	13.0	-63.6		
1305	20	200	2.95	4	7.22	2.10	13.6	0.14	12.5	-66.1		
1310	25	200	2.95	5	7.25	2.11	11.4	0.17	13.1	-68.4		
1315	30	200	2.95	6	7.26	2.11	7.62	0.17	13.0	-70.4		
1320	35	200	2.95	7	7.26	2.11	4.04	0.18	13.1	-71.8		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS-1633	2 x 500ml / 1 x 250ml	3	none
VOCs-8260	3 40ml VOA	3	HCL

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: near corner box | Well Locked at Arrival: Yes / No

Condition of Well: good | Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up | Key Number To Well:

Low Flow GW Samp Form

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. 30135043 Well ID IW-3I Date 6-3-2024

Project Name/Location Jack's Cleaners - Brewerton, NY Weather 80°F, Sun

Measuring Pt. Description TOC Screen Setting (ft-bmp) 8-18 Casing Diameter (in.) 2" Well Material X PVC ___ SS

Static Water Level (ft-btoc) 6.59 Total Depth (ft-btoc) 17.73 Water Column/ Gallons in Well 11.14 / 1.82 Wellhead PID Reading (ppm) —

MP Elevation — Pump Intake (ft-btoc) ~15.5 Purge Method: low-flow Peristaltic X Submersible ___ Bladder ___ Sample Method low-flow

Pump On/Off 1405 / 1538 Volumes Purged 3.5 gal

Sample Time: Label 1530 Start 1530 End 1539 Replicate/ Code No. — Water Quality Meter Make/Model: YSI Prot / Hach 2100Q Sampled by BKW

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1410	5	140	6.93		6.58	0.76	8.91	~~21.7~~ 1.93	14.0	-82.1	clear	none
1415	10	140	7.10		6.55	0.76	3.65	1.84	13.9	-83.1		
1420	15	140	7.25	0.5	6.59	0.76	2.91	1.80	14.0	-86.0		
1425	20	140	7.42		6.64	0.75	3.13	1.73	13.9	-88.7		
1430	25	110	7.52	0.75	6.65	0.74	3.22	1.59	14.3	-91.1		
1435	30	110	7.60		6.69	0.74	2.55	1.20	14.1	-92.9		
1440	35	110	7.69	1.0	6.73	0.74	3.01	1.10	13.9	-94.2		
1445	40	110	7.75		6.74	0.73	4.10	0.97	13.9	-94.9		
1450	45	110	7.79	~~1.50~~	6.76	0.73	2.12	0.90	13.8	-94.7		
1455	50	110	7.85		6.74	0.73	2.28	0.81	13.5	-94.7		
1500	55	110	7.89	2.0	6.76	0.73	2.26	0.70	13.6	-94.2		
1505	60	110	7.89		6.76	0.73	2.20	0.60	13.4	-94.0		
1510	65	110	7.91	~~1.75~~	6.75	0.72	2.17	0.52	13.8	-94.0		
1515	70	110	7.91	2.5	6.73	0.72	1.38	0.46	13.7	-94.0		
1520	75	110	7.91	3.0	6.76	0.72	1.99	0.40	13.8	-93.6		
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative
PFAS - 1633	2x ~~250~~ 500ml, 1x125ml	3	none
VOCs - 8260	40ml VOA	3	HCl

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location: Gravel parking lot

Condition of Well: okay - missing one bolt

Well Completion: (Flush Mount) / Stick Up

Well Locked at Arrival: Yes / (No)

Well Locked at Departure: Yes / (No)

Key Number To Well: —

ARCADIS Low Flow Groundwater Purging and Sampling Form

Project No. _____ Well ID IW-31 Date _____

Project Name/Location SEE PAGE 1 Weather _____

Measuring Pt. Description TOC | Screen Setting (ft-bmp) _____ | Casing Diameter (in.) _____ | Well Material ___PVC ___SS

Static Water Level (ft-btoc) _____ | Total Depth (ft-btoc) _____ | Water Column/ Gallons in Well _____ | Wellhead PID Reading (ppm) _____

MP Elevation _____ | Pump Intake (ft-btoc) _____ | Purge Method: _____ Peristaltic _____ Submersible _____ Bladder | Sample Method _____

Pump On/Off _____ | Volumes Purged _____

Sample Time: Label _____ Start _____ End _____ | Replicate/ Code No. _____ | Water Quality Meter Make/Model: _____ | Sampled by _____

Stabilization parameters 3 readings *(not reqr'd by SOP)*: 0.1 | 3% | 10% | (10%) | 3% | (10%)

Time (approx. 3-5 minute interval)	Minutes Elapsed	Rate 0.05-0.13 (gpm) 200-500 (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C) (°F)	Redox (mV)	Appearance Color	Appearance Odor
1525	80	110	7.91		6.73	0.72	1.92	0.39	13.8	-92.6	clear	none
1530	85	110	SAMPLED								"	"
Approx. value difference b/t 3rd & 2nd to last reading:												
Approx. value difference b/t 2nd to last & final reading:												

Constituents Sampled	Container	Number	Preservative

Well Casing Volumes

Gallons/Foot: 1" = 0.04 | 1.25" = 0.06 | 1.5" = 0.09 | 2" = 0.16 | 2.5" = 0.26 | 3" = 0.37 | 3.5" = 0.50 | 4" = 0.65 | 6" = 1.47

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

Low Flow GW Samp Form

SEE PAGE 1

APPENDIX B

Laboratory Analytical Reports

con-test®
A Pace Analytical® Laboratory

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

June 28, 2024

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Brewerton, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 24F0897

Enclosed are results of analyses for samples as received by the laboratory on June 6, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 6/28/2024

PURCHASE ORDER NUMBER: 149566

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24F0897

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

PROJECT LOCATION: Brewerton, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1R	24F0897-01	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-2	24F0897-02	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-5	24F0897-03	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-7	24F0897-04	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-10	24F0897-05	Ground Water		Draft Method 1633	
MW-12	24F0897-06	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-13	24F0897-07	Ground Water		Draft Method 1633	
				SW-846 8260D	
MW-14	24F0897-08	Ground Water		Draft Method 1633	
				SW-846 8260D	
IW-18	24F0897-09	Ground Water		Draft Method 1633	
				SW-846 8260D	
IW-25	24F0897-10	Ground Water		Draft Method 1633	
				SW-846 8260D	
IW-31	24F0897-11	Ground Water		Draft Method 1633	
				SW-846 8260D	
DUP-20240604	24F0897-12	Ground Water		Draft Method 1633	
				SW-846 8260D	
Equipment Blank-20240605	24F0897-13	Equipment Blank Water		Draft Method 1633	
Trip Blank	24F0897-14	Trip Blank Water		SW-846 8260D	

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

CASE NARRATIVE SUMMARY

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

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

Draft Method 1633

Qualifications:

D-04

Sample extracted at a dilution due to insufficient volume provided.

Analyte & Samples(s) Qualified:

24F0897-03[MW-5], 24F0897-12[DUP-20240604], 24F0897-13[Equipment Blank-20240605]

H-01

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

Analyte & Samples(s) Qualified:

Total Suspended Solids
24F0897-01[MW-1R], 24F0897-06[MW-12], 24F0897-09[IW-18]

PF-22

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

Analyte & Samples(s) Qualified:

N-MeFOSAA (NMeFOSAA)
24F0897-01[MW-1R]

Perfluorooctanesulfonamide (PFOSA)
24F0897-01[MW-1R], 24F0897-07RE1[MW-13], 24F0897-12[DUP-20240604]

PF-23

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

Analyte & Samples(s) Qualified:

Perfluorononanesulfonic acid (PFNS)
24F0897-08[MW-14], 24F0897-12[DUP-20240604]

Perfluorononanoic acid (PFNA)
24F0897-08[MW-14]

Perfluorooctanesulfonic acid (PFOS)
24F0897-03[MW-5], 24F0897-05[MW-10]

Perfluorooctanoic acid (PFOA)
24F0897-13[Equipment Blank-20240605]

Perfluoropentanoic acid (PFPeA)
24F0897-06[MW-12]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

D9-NEtFOSE
S106606-CCV2, S106606-CCV3

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S106606-CCV2, S106606-CCV3

V-05

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

Analyte & Samples(s) Qualified:

3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA
S106236-CCV2, S106236-CCV3, S106236-CCV4

Perfluoro-4-methoxybutanoic acid (PFMBA)
S106236-CCV4

SW-846 8260D

Qualifications:

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

L-04

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

24F0897-01[MW-1R], 24F0897-02[MW-2], 24F0897-03[MW-5], 24F0897-04[MW-7], 24F0897-06[MW-12], 24F0897-07[MW-13], 24F0897-08[MW-14], 24F0897-09[IW-18], 24F0897-10[IW-25], 24F0897-11[IW-31], 24F0897-12[DUP-20240604], 24F0897-14[Trip Blank], B376865-BLK1, B376865-BS1, B376865-BSD1, B376865-MS1, B376865-MSD1, S105864-CCV1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

24F0897-03[MW-5], B376865-MS1, B376865-MSD1

Naphthalene

24F0897-03[MW-5], B376865-MS1, B376865-MSD1

MS-09

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

24F0897-03[MW-5], B376865-MS1, B376865-MSD1

MS-24

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene

B376865-MS1

2-Hexanone (MBK)

B376865-MS1

Acetone

B376865-MS1

Bromoform

B376865-MS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

24F0897-07[MW-13], 24F0897-10[IW-25]

V-05

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

24F0897-01[MW-1R], 24F0897-02[MW-2], 24F0897-03[MW-5], 24F0897-04[MW-7], 24F0897-06[MW-12], 24F0897-07[MW-13], 24F0897-08[MW-14], 24F0897-09[IW-18], 24F0897-10[IW-25], 24F0897-11[IW-31], 24F0897-12[DUP-20240604], 24F0897-14[Trip Blank], B376865-BLK1, B376865-BS1, B376865-BSD1, B376865-MS1, B376865-MSD1, S105864-CCV1

V-20

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

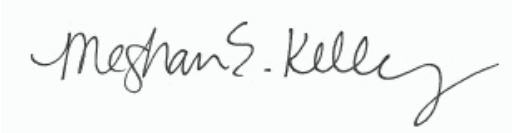
Analyte & Samples(s) Qualified:

Bromomethane

B376865-BS1, B376865-BSD1, B376865-MS1, B376865-MSD1, S105864-CCV1

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-1R | Sampled: 6/4/2024 11:15

Sample ID: 24F0897-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05, L-04	SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,1-Dichloroethane	1.0	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
cis-1,2-Dichloroethylene	20	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
trans-1,2-Dichloroethylene	0.43	1.0	0.16	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Methyl tert-Butyl Ether (MTBE)	0.23	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-1R | Sampled: 6/4/2024 11:15

Sample ID: 24F0897-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Tetrachloroethylene	12	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Toluene	0.12	1.0	0.11	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Trichloroethylene	6.3	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Vinyl Chloride	9.1	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		6/12/24 14:54
Toluene-d8	94.5	70-130		6/12/24 14:54
4-Bromofluorobenzene	86.6	70-130		6/12/24 14:54

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-1R | Sampled: 6/4/2024 11:15

Sample ID: 24F0897-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	4.2	2.3	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoropentanoic acid (PFPeA)	29	2.1	0.45	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorohexanoic acid (PFHxA)	23	1.0	0.25	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoroheptanoic acid (PFHpA)	17	1.0	0.28	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorooctanoic acid (PFOA)	68	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorononanoic acid (PFNA)	8.2	1.0	0.20	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorodecanoic acid (PFDA)	8.5	1.0	0.22	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoroundecanoic acid (PFUnA)	0.27	1.0	0.21	ng/L	1	J	Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.31	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorobutanesulfonic acid (PFBS)	5.0	1.0	0.22	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.8	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.5	1.0	0.29	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoroheptanesulfonic acid (PFHpS)	4.3	1.0	0.34	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorooctanesulfonic acid (PFOS)	600	1.0	0.40	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.2	0.78	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.2	3.2	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.2	1.2	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluorooctanesulfonamide (PFOSA)	4.9	1.0	0.24	ng/L	1	PF-22	Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.35	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-MeFOSAA (NMeFOSAA)	1.0	1.0	0.37	ng/L	1	PF-22, J	Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-EtFOSAA (NEtFOSAA)	8.3	1.0	0.42	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.2	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.2	0.86	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.2	1.0	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.2	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.3	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	52	12	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	52	9.9	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.36	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.58	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-1R | Sampled: 6/4/2024 11:15

Sample ID: 24F0897-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.56	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.58	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:11	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	73.0	10-130		6/14/24 2:11
13C5-PFPeA	79.8	35-150		6/14/24 2:11
13C5-PFHxA	75.5	55-150		6/14/24 2:11
13C4-PFHpA	67.5	55-150		6/14/24 2:11
13C8-PFOA	69.5	60-140		6/14/24 2:11
13C9-PFNA	74.5	55-140		6/14/24 2:11
13C6-PFDA	72.8	50-140		6/14/24 2:11
13C7-PFUnA	76.1	30-140		6/14/24 2:11
13C2-PFDoA	73.7	10-150		6/14/24 2:11
13C2-PFTeDA	67.3	10-130		6/14/24 2:11
13C3-PFBS	85.2	55-150		6/14/24 2:11
13C3-PFHxS	70.9	55-150		6/14/24 2:11
13C8-PFOS	69.4	45-140		6/14/24 2:11
13C2-4:2FTS	117	60-200		6/14/24 2:11
13C2-6:2FTS	106	60-200		6/14/24 2:11
13C2-8:2FTS	96.4	50-200		6/14/24 2:11
13C8-PFOSA	71.7	30-130		6/14/24 2:11
D3-NMeFOSA	54.4	15-130		6/14/24 2:11
D5-NEtFOSA	50.5	10-130		6/14/24 2:11
D3-NMeFOSAA	69.4	45-200		6/14/24 2:11
D5-NEtFOSAA	63.5	10-200		6/14/24 2:11
D7-NMeFOSE	60.4	10-150		6/14/24 2:11
D9-NEtFOSE	56.8	10-150		6/14/24 2:11
13C3-HFPO-DA	65.9	25-160		6/14/24 2:11

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-1R | Sampled: 6/4/2024 11:15

Sample ID: 24F0897-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	40	10	mg/L	1	H-01	Draft Method 1633	6/11/24	6/11/24 13:35	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-2 | Sampled: 6/4/2024 09:15

Sample ID: 24F0897-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
cis-1,2-Dichloroethylene	1.0	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-2 | Sampled: 6/4/2024 09:15

Sample ID: 24F0897-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Tetrachloroethylene	14	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Trichloroethylene	0.51	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		6/12/24 15:21
Toluene-d8	95.0	70-130		6/12/24 15:21
4-Bromofluorobenzene	81.5	70-130		6/12/24 15:21

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Date Received: 6/6/2024

Field Sample #: MW-2 | Sampled: 6/4/2024 09:15

Sample ID: 24F0897-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.7	3.6	2.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoropentanoic acid (PFPeA)	9.1	1.8	0.39	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorohexanoic acid (PFHxA)	7.5	0.90	0.22	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoroheptanoic acid (PFHpA)	4.3	0.90	0.24	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorooctanoic acid (PFOA)	12	0.90	0.24	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorononanoic acid (PFNA)	1.3	0.90	0.17	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorodecanoic acid (PFDA)	0.41	0.90	0.19	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.18	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.18	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.27	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorobutanesulfonic acid (PFBS)	3.0	0.90	0.19	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoropentanesulfonic acid (PFPeS)	1.5	0.90	0.23	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorohexanesulfonic acid (PFHxS)	6.6	0.90	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoroheptanesulfonic acid (PFHpS)	0.50	0.90	0.30	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorooctanesulfonic acid (PFOS)	33	0.90	0.35	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.68	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	2.7	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	1.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.90	0.30	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.31	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.32	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.36	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.0	2.5	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.93	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.74	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
11Cl-PF3OUdS (F53B Major)	ND	3.6	0.97	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	2.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	10	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.6	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB

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Date Received: 6/6/2024

Field Sample #: MW-2 | Sampled: 6/4/2024 09:15

Sample ID: 24F0897-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.49	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.50	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:21	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	37.2	10-130		6/21/24 21:21
13C5-PFPeA	75.7	35-150		6/21/24 21:21
13C5-PFHxA	76.2	55-150		6/21/24 21:21
13C4-PFHpA	79.7	55-150		6/21/24 21:21
13C8-PFOA	74.3	60-140		6/21/24 21:21
13C9-PFNA	75.3	55-140		6/21/24 21:21
13C6-PFDA	69.8	50-140		6/21/24 21:21
13C7-PFUnA	69.3	30-140		6/21/24 21:21
13C2-PFDoA	65.2	10-150		6/21/24 21:21
13C2-PFTeDA	57.0	10-130		6/21/24 21:21
13C3-PFBS	79.5	55-150		6/21/24 21:21
13C3-PFHxS	77.4	55-150		6/21/24 21:21
13C8-PFOS	72.4	45-140		6/21/24 21:21
13C2-4:2FTS	104	60-200		6/21/24 21:21
13C2-6:2FTS	100	60-200		6/21/24 21:21
13C2-8:2FTS	55.3	50-200		6/21/24 21:21
13C8-PFOSA	73.1	30-130		6/21/24 21:21
D3-NMeFOSA	58.1	15-130		6/21/24 21:21
D5-NEtFOSA	56.1	10-130		6/21/24 21:21
D3-NMeFOSAA	73.7	45-200		6/21/24 21:21
D5-NEtFOSAA	69.0	10-200		6/21/24 21:21
D7-NMeFOSE	56.4	10-150		6/21/24 21:21
D9-NEtFOSE	56.1	10-150		6/21/24 21:21
13C3-HFPO-DA	82.4	25-160		6/21/24 21:21

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Date Received: 6/6/2024

Field Sample #: MW-2 | Sampled: 6/4/2024 09:15

Sample ID: 24F0897-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-5 | Sampled: 6/4/2024 09:30

Sample ID: 24F0897-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, MS-09, V-05	SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	MS-07A	SW-846 8260D	6/11/24	6/12/24 12:41	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-5 | Sampled: 6/4/2024 09:30

Sample ID: 24F0897-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1	MS-07A	SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		6/12/24 12:41
Toluene-d8	94.2	70-130		6/12/24 12:41
4-Bromofluorobenzene	83.1	70-130		6/12/24 12:41

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-5 | Sampled: 6/4/2024 09:30

Sample ID: 24F0897-03

Sample Matrix: Ground Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.8	4.1	2.2	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoropentanoic acid (PFPeA)	4.9	2.1	0.44	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorohexanoic acid (PFHxA)	3.2	1.0	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoroheptanoic acid (PFHpA)	1.7	1.0	0.27	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorooctanoic acid (PFOA)	4.5	1.0	0.27	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorononanoic acid (PFNA)	0.36	1.0	0.19	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorodecanoic acid (PFDA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorobutanesulfonic acid (PFBS)	1.8	1.0	0.22	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoropentanesulfonic acid (PFPeS)	0.52	1.0	0.26	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorohexanesulfonic acid (PFHxS)	1.0	1.0	0.29	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorooctanesulfonic acid (PFOS)	1.2	1.0	0.39	ng/L	1	PF-23	Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	0.77	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	3.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	0.24	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.35	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.37	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.41	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.84	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
9Cl-PF3ONS (F53B Minor)	ND	4.1	0.99	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
11Cl-PF3OUdS (F53B Major)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.2	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	51	12	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	9.8	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.36	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-5 | Sampled: 6/4/2024 09:30

Sample ID: 24F0897-03

Sample Matrix: Ground Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.55	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:37	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	38.3	10-130		6/21/24 21:37
13C5-PFPeA	77.0	35-150		6/21/24 21:37
13C5-PFHxA	75.1	55-150		6/21/24 21:37
13C4-PFHpA	79.4	55-150		6/21/24 21:37
13C8-PFOA	75.1	60-140		6/21/24 21:37
13C9-PFNA	74.8	55-140		6/21/24 21:37
13C6-PFDA	72.7	50-140		6/21/24 21:37
13C7-PFUnA	70.8	30-140		6/21/24 21:37
13C2-PFDoA	68.2	10-150		6/21/24 21:37
13C2-PFTeDA	64.2	10-130		6/21/24 21:37
13C3-PFBS	79.3	55-150		6/21/24 21:37
13C3-PFHxS	74.4	55-150		6/21/24 21:37
13C8-PFOS	71.4	45-140		6/21/24 21:37
13C2-4:2FTS	110	60-200		6/21/24 21:37
13C2-6:2FTS	94.2	60-200		6/21/24 21:37
13C2-8:2FTS	60.0	50-200		6/21/24 21:37
13C8-PFOSA	71.2	30-130		6/21/24 21:37
D3-NMeFOSA	59.8	15-130		6/21/24 21:37
D5-NEtFOSA	58.6	10-130		6/21/24 21:37
D3-NMeFOSAA	75.6	45-200		6/21/24 21:37
D5-NEtFOSAA	72.7	10-200		6/21/24 21:37
D7-NMeFOSE	57.0	10-150		6/21/24 21:37
D9-NEtFOSE	55.3	10-150		6/21/24 21:37
13C3-HFPO-DA	83.4	25-160		6/21/24 21:37

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-5 | Sampled: 6/4/2024 09:30

Sample ID: 24F0897-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	12	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-7 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
cis-1,2-Dichloroethylene	6.8	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-7 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Trichloroethylene	0.40	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Vinyl Chloride	18	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		6/12/24 13:08
Toluene-d8	90.2	70-130		6/12/24 13:08
4-Bromofluorobenzene	82.6	70-130		6/12/24 13:08

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-7 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.9	3.8	2.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoropentanoic acid (PFPeA)	11	1.9	0.41	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorohexanoic acid (PFHxA)	7.0	0.95	0.23	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoroheptanoic acid (PFHpA)	2.3	0.95	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorooctanoic acid (PFOA)	8.8	0.95	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorononanoic acid (PFNA)	0.91	0.95	0.18	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.19	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.19	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.28	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorobutanesulfonic acid (PFBS)	1.6	0.95	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.2	0.95	0.27	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.31	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorooctanesulfonic acid (PFOS)	31	0.95	0.36	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.27	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.27	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.71	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.22	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.95	0.31	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.32	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.34	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.38	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.5	2.6	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.98	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.78	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	2.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	11	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	9.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-7 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.51	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:24	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	49.7	10-130		6/26/24 21:24
13C5-PFPeA	91.9	35-150		6/26/24 21:24
13C5-PFHxA	82.3	55-150		6/26/24 21:24
13C4-PFHpA	82.2	55-150		6/26/24 21:24
13C8-PFOA	82.0	60-140		6/26/24 21:24
13C9-PFNA	80.4	55-140		6/26/24 21:24
13C6-PFDA	81.2	50-140		6/26/24 21:24
13C7-PFUnA	79.1	30-140		6/26/24 21:24
13C2-PFDoA	75.6	10-150		6/26/24 21:24
13C2-PFTeDA	69.2	10-130		6/26/24 21:24
13C3-PFBS	83.2	55-150		6/26/24 21:24
13C3-PFHxS	81.5	55-150		6/26/24 21:24
13C8-PFOS	78.1	45-140		6/26/24 21:24
13C2-4:2FTS	106	60-200		6/26/24 21:24
13C2-6:2FTS	81.8	60-200		6/26/24 21:24
13C2-8:2FTS	62.6	50-200		6/26/24 21:24
13C8-PFOSA	71.6	30-130		6/26/24 21:24
D3-NMeFOSA	62.6	15-130		6/26/24 21:24
D5-NEtFOSA	67.7	10-130		6/26/24 21:24
D3-NMeFOSAA	68.9	45-200		6/26/24 21:24
D5-NEtFOSAA	70.9	10-200		6/26/24 21:24
D7-NMeFOSE	71.6	10-150		6/26/24 21:24
D9-NEtFOSE	76.1	10-150		6/26/24 21:24
13C3-HFPO-DA	76.2	25-160		6/26/24 21:24

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-7 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-10 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.5	4.0	2.2	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoropentanoic acid (PFPeA)	0.87	2.0	0.43	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorohexanoic acid (PFHxA)	0.58	0.99	0.24	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorooctanoic acid (PFOA)	0.88	0.99	0.26	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorononanoic acid (PFNA)	ND	0.99	0.19	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorodecanoic acid (PFDA)	ND	0.99	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorododecanoic acid (PFDoA)	ND	0.99	0.20	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	0.29	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorobutanesulfonic acid (PFBS)	1.7	0.99	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorohexanesulfonic acid (PFHxS)	0.59	0.99	0.28	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	0.33	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorooctanesulfonic acid (PFOS)	1.6	0.99	0.38	ng/L	1	PF-23	Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.99	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	0.29	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	0.29	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	0.74	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	3.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	0.23	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	0.33	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	0.33	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-MeFOSAA (NMeFOSAA)	ND	0.99	0.35	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-EtFOSAA (NEtFOSAA)	ND	0.99	0.40	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	2.7	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	2.7	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	1.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	0.82	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
9Cl-PF3ONS (F53B Minor)	ND	4.0	0.96	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
11Cl-PF3OUdS (F53B Major)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	2.2	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	11	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	9.4	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.35	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-10 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	6/20/24	6/21/24 21:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	47.4	10-130		6/21/24 21:53
13C5-PFPeA	82.1	35-150		6/21/24 21:53
13C5-PFHxA	77.8	55-150		6/21/24 21:53
13C4-PFHpA	80.5	55-150		6/21/24 21:53
13C8-PFOA	77.0	60-140		6/21/24 21:53
13C9-PFNA	77.6	55-140		6/21/24 21:53
13C6-PFDA	73.9	50-140		6/21/24 21:53
13C7-PFUnA	72.3	30-140		6/21/24 21:53
13C2-PFDoA	71.6	10-150		6/21/24 21:53
13C2-PFTeDA	64.9	10-130		6/21/24 21:53
13C3-PFBS	80.8	55-150		6/21/24 21:53
13C3-PFHxS	78.3	55-150		6/21/24 21:53
13C8-PFOS	74.4	45-140		6/21/24 21:53
13C2-4:2FTS	68.2	60-200		6/21/24 21:53
13C2-6:2FTS	68.2	60-200		6/21/24 21:53
13C2-8:2FTS	52.0	50-200		6/21/24 21:53
13C8-PFOSA	72.1	30-130		6/21/24 21:53
D3-NMeFOSA	54.8	15-130		6/21/24 21:53
D5-NEtFOSA	56.2	10-130		6/21/24 21:53
D3-NMeFOSAA	70.8	45-200		6/21/24 21:53
D5-NEtFOSAA	65.7	10-200		6/21/24 21:53
D7-NMeFOSE	59.0	10-150		6/21/24 21:53
D9-NEtFOSE	58.5	10-150		6/21/24 21:53
13C3-HFPO-DA	85.1	25-160		6/21/24 21:53

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-10 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-05

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	16	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-12 | Sampled: 6/4/2024 11:55

Sample ID: 24F0897-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Chloroethane	26	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
cis-1,2-Dichloroethylene	0.51	1.0	0.20	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 13:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-12 | Sampled: 6/4/2024 11:55

Sample ID: 24F0897-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Trichloroethylene	0.41	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 13:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		6/12/24 13:34
Toluene-d8	95.6	70-130		6/12/24 13:34
4-Bromofluorobenzene	83.8	70-130		6/12/24 13:34

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-12 | Sampled: 6/4/2024 11:55

Sample ID: 24F0897-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.3	4.1	2.2	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoropentanoic acid (PFPeA)	1.9	2.0	0.44	ng/L	1	PF-23, J	Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorohexanoic acid (PFHxA)	1.3	1.0	0.24	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoroheptanoic acid (PFHpA)	0.47	1.0	0.27	ng/L	1	J	Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorooctanoic acid (PFOA)	1.0	1.0	0.27	ng/L	1	J	Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorononanoic acid (PFNA)	ND	1.0	0.19	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorodecanoic acid (PFDA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.20	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	1.0	0.22	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	1.0	0.28	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.33	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	1.0	0.39	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.29	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.29	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	0.76	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	3.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	0.24	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.0	0.33	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.36	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.41	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.0	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.83	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.1	0.98	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.2	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	51	11	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	9.6	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.35	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.56	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-12 | Sampled: 6/4/2024 11:55

Sample ID: 24F0897-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.56	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:26	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	58.4	10-130		6/14/24 2:26
13C5-PFPeA	78.5	35-150		6/14/24 2:26
13C5-PFHxA	76.6	55-150		6/14/24 2:26
13C4-PFHpA	70.1	55-150		6/14/24 2:26
13C8-PFOA	74.0	60-140		6/14/24 2:26
13C9-PFNA	75.2	55-140		6/14/24 2:26
13C6-PFDA	71.6	50-140		6/14/24 2:26
13C7-PFUnA	68.5	30-140		6/14/24 2:26
13C2-PFDoA	65.7	10-150		6/14/24 2:26
13C2-PFTeDA	61.6	10-130		6/14/24 2:26
13C3-PFBS	86.1	55-150		6/14/24 2:26
13C3-PFHxS	76.2	55-150		6/14/24 2:26
13C8-PFOS	74.3	45-140		6/14/24 2:26
13C2-4:2FTS	99.1	60-200		6/14/24 2:26
13C2-6:2FTS	89.3	60-200		6/14/24 2:26
13C2-8:2FTS	71.1	50-200		6/14/24 2:26
13C8-PFOSA	62.3	30-130		6/14/24 2:26
D3-NMeFOSA	59.4	15-130		6/14/24 2:26
D5-NEtFOSA	68.3	10-130		6/14/24 2:26
D3-NMeFOSAA	70.8	45-200		6/14/24 2:26
D5-NEtFOSAA	69.7	10-200		6/14/24 2:26
D7-NMeFOSE	56.3	10-150		6/14/24 2:26
D9-NEtFOSE	65.6	10-150		6/14/24 2:26
13C3-HFPO-DA	66.7	25-160		6/14/24 2:26

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-12 | Sampled: 6/4/2024 11:55

Sample ID: 24F0897-06

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/11/24	6/11/24 13:35	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-13 | Sampled: 6/4/2024 14:50

Sample ID: 24F0897-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	20	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Benzene	ND	10	1.4	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Bromochloromethane	ND	10	3.2	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Bromodichloromethane	ND	5.0	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Bromoform	ND	10	3.0	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Bromomethane	ND	20	15	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
2-Butanone (MEK)	ND	200	14	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
n-Butylbenzene	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
sec-Butylbenzene	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
tert-Butylbenzene	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Carbon Disulfide	ND	50	15	µg/L	10	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Carbon Tetrachloride	ND	50	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Chlorobenzene	ND	10	1.8	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Chlorodibromomethane	ND	5.0	1.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Chloroethane	ND	20	4.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Chloroform	ND	20	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Chloromethane	ND	20	5.0	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Cyclohexane	ND	50	18	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	6.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,3-Dichlorobenzene	ND	10	1.5	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,4-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	2.0	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,1-Dichloroethane	ND	10	1.5	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2-Dichloroethane	ND	10	1.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,1-Dichloroethylene	ND	10	1.8	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
cis-1,2-Dichloroethylene	260	10	2.0	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
trans-1,2-Dichloroethylene	4.4	10	1.6	µg/L	10	J	SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2-Dichloropropane	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
cis-1,3-Dichloropropene	ND	5.0	1.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
trans-1,3-Dichloropropene	ND	5.0	1.4	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Ethylbenzene	ND	10	1.4	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
2-Hexanone (MBK)	ND	100	13	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Isopropylbenzene (Cumene)	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Methyl Acetate	ND	10	4.8	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Methyl Cyclohexane	2.6	10	1.3	µg/L	10	J	SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Methylene Chloride	ND	50	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	14	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Naphthalene	ND	20	2.5	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
n-Propylbenzene	ND	10	1.1	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Styrene	ND	10	1.3	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-13 | Sampled: 6/4/2024 14:50

Sample ID: 24F0897-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Tetrachloroethylene	610	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Toluene	ND	10	1.1	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2,3-Trichlorobenzene	ND	50	2.2	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2,4-Trichlorobenzene	ND	10	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,1,1-Trichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,1,2-Trichloroethane	ND	10	1.8	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Trichloroethylene	240	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.4	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2,3-Trichloropropane	ND	20	2.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,2,4-Trimethylbenzene	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
1,3,5-Trimethylbenzene	ND	10	1.7	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Vinyl Chloride	30	20	1.9	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
m+p Xylene	ND	20	2.5	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
o-Xylene	ND	10	1.6	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF
Xylenes (total)	ND	10	10	µg/L	10		SW-846 8260D	6/11/24	6/12/24 16:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		6/12/24 16:41
Toluene-d8	97.1	70-130		6/12/24 16:41
4-Bromofluorobenzene	79.2	70-130		6/12/24 16:41

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-13 | Sampled: 6/4/2024 14:50

Sample ID: 24F0897-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	10	4.0	2.2	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoropentanoic acid (PFPeA)	23	2.0	0.43	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorohexanoic acid (PFHxA)	14	1.0	0.24	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoroheptanoic acid (PFHpA)	3.8	1.0	0.27	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorooctanoic acid (PFOA)	14	1.0	0.26	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorononanoic acid (PFNA)	1.4	1.0	0.19	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorodecanoic acid (PFDA)	0.53	1.0	0.21	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorobutanesulfonic acid (PFBS)	2.0	1.0	0.21	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.63	1.0	0.26	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.1	1.0	0.28	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.53	1.0	0.33	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorooctanesulfonic acid (PFOS)	54	1.0	0.38	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.29	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.29	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	0.75	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	3.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluorooctanesulfonamide (PFOSA)	0.74	1.0	0.23	ng/L	1	PF-22, J	Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	0.33	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.36	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-EtFOSAA (NEtFOSAA)	0.80	1.0	0.40	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	1.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	0.82	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.0	0.96	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.2	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	11	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	9.5	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.35	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.56	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-13 | Sampled: 6/4/2024 14:50

Sample ID: 24F0897-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.55	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:40	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	54.7	10-130		6/26/24 21:40
13C5-PFPeA	93.8	35-150		6/26/24 21:40
13C5-PFHxA	84.8	55-150		6/26/24 21:40
13C4-PFHpA	87.2	55-150		6/26/24 21:40
13C8-PFOA	83.8	60-140		6/26/24 21:40
13C9-PFNA	83.7	55-140		6/26/24 21:40
13C6-PFDA	78.8	50-140		6/26/24 21:40
13C7-PFUnA	77.3	30-140		6/26/24 21:40
13C2-PFDoA	76.8	10-150		6/26/24 21:40
13C2-PFTeDA	70.3	10-130		6/26/24 21:40
13C3-PFBS	90.9	55-150		6/26/24 21:40
13C3-PFHxS	88.1	55-150		6/26/24 21:40
13C8-PFOS	79.1	45-140		6/26/24 21:40
13C2-4:2FTS	117	60-200		6/26/24 21:40
13C2-6:2FTS	98.4	60-200		6/26/24 21:40
13C2-8:2FTS	79.3	50-200		6/26/24 21:40
13C8-PFOSA	67.2	30-130		6/26/24 21:40
D3-NMeFOSA	59.0	15-130		6/26/24 21:40
D5-NEtFOSA	66.6	10-130		6/26/24 21:40
D3-NMeFOSAA	67.1	45-200		6/26/24 21:40
D5-NEtFOSAA	69.7	10-200		6/26/24 21:40
D7-NMeFOSE	65.7	10-150		6/26/24 21:40
D9-NEtFOSE	70.6	10-150		6/26/24 21:40
13C3-HFPO-DA	75.0	25-160		6/26/24 21:40

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-13 | Sampled: 6/4/2024 14:50

Sample ID: 24F0897-07

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-14 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-14 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Toluene	0.19	1.0	0.11	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		6/12/24 14:01
Toluene-d8	95.9	70-130		6/12/24 14:01
4-Bromofluorobenzene	85.0	70-130		6/12/24 14:01

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-14 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.0	3.9	2.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoropentanoic acid (PFPeA)	1.3	1.9	0.42	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorohexanoic acid (PFHxA)	0.24	0.97	0.23	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.97	0.26	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorooctanoic acid (PFOA)	0.27	0.97	0.25	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorononanoic acid (PFNA)	0.18	0.97	0.18	ng/L	1	PF-23, J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorodecanoic acid (PFDA)	ND	0.97	0.20	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.97	0.20	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorododecanoic acid (PFDoA)	ND	0.97	0.19	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.97	0.29	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.97	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.97	0.21	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.97	0.25	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorohexanesulfonic acid (PFHxS)	0.37	0.97	0.27	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.97	0.32	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorooctanesulfonic acid (PFOS)	0.43	0.97	0.37	ng/L	1	J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorononanesulfonic acid (PFNS)	0.70	0.97	0.24	ng/L	1	PF-23, J	Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.97	0.28	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.97	0.28	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.72	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	2.9	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.97	0.22	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.97	0.32	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.97	0.33	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-MeFOSAA (NMeFOSAA)	ND	0.97	0.35	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-EtFOSAA (NEtFOSAA)	ND	0.97	0.39	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.7	2.6	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.80	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.93	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
11Cl-PF3OUdS (F53B Major)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.7	2.1	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	11	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	9.2	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.34	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.54	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-14 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.53	ng/L	1		Draft Method 1633	6/20/24	6/21/24 22:40	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	40.0	10-130		6/21/24 22:40
13C5-PFPeA	74.1	35-150		6/21/24 22:40
13C5-PFHxA	76.3	55-150		6/21/24 22:40
13C4-PFHpA	76.6	55-150		6/21/24 22:40
13C8-PFOA	74.6	60-140		6/21/24 22:40
13C9-PFNA	73.7	55-140		6/21/24 22:40
13C6-PFDA	72.0	50-140		6/21/24 22:40
13C7-PFUnA	68.7	30-140		6/21/24 22:40
13C2-PFDoA	64.3	10-150		6/21/24 22:40
13C2-PFTeDA	51.6	10-130		6/21/24 22:40
13C3-PFBS	79.0	55-150		6/21/24 22:40
13C3-PFHxS	77.3	55-150		6/21/24 22:40
13C8-PFOS	70.6	45-140		6/21/24 22:40
13C2-4:2FTS	138	60-200		6/21/24 22:40
13C2-6:2FTS	133	60-200		6/21/24 22:40
13C2-8:2FTS	91.0	50-200		6/21/24 22:40
13C8-PFOSA	65.8	30-130		6/21/24 22:40
D3-NMeFOSA	54.9	15-130		6/21/24 22:40
D5-NEtFOSA	55.5	10-130		6/21/24 22:40
D3-NMeFOSAA	78.8	45-200		6/21/24 22:40
D5-NEtFOSAA	77.3	10-200		6/21/24 22:40
D7-NMeFOSE	47.6	10-150		6/21/24 22:40
D9-NEtFOSE	51.2	10-150		6/21/24 22:40
13C3-HFPO-DA	81.4	25-160		6/21/24 22:40

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: MW-14 | Sampled: 6/4/2024 14:45

Sample ID: 24F0897-08

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	40	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-18 | Sampled: 6/4/2024 10:05

Sample ID: 24F0897-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Benzene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,1-Dichloroethylene	0.22	1.0	0.18	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 16:14	MFF
cis-1,2-Dichloroethylene	63	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Methyl tert-Butyl Ether (MTBE)	1.4	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Methyl Cyclohexane	0.28	1.0	0.13	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-18 | Sampled: 6/4/2024 10:05

Sample ID: 24F0897-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Toluene	0.33	1.0	0.11	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Trichloroethylene	0.54	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Vinyl Chloride	91	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 16:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	118	70-130		6/12/24 16:14
Toluene-d8	95.9	70-130		6/12/24 16:14
4-Bromofluorobenzene	84.6	70-130		6/12/24 16:14

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-18 | Sampled: 6/4/2024 10:05

Sample ID: 24F0897-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	16	4.1	2.3	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoropentanoic acid (PFPeA)	18	2.1	0.44	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorohexanoic acid (PFHxA)	14	1.0	0.25	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoroheptanoic acid (PFHpA)	4.9	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorooctanoic acid (PFOA)	12	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorononanoic acid (PFNA)	0.72	1.0	0.19	ng/L	1	J	Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorodecanoic acid (PFDA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.31	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorobutanesulfonic acid (PFBS)	4.7	1.0	0.22	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.3	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.0	0.29	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorooctanesulfonic acid (PFOS)	19	1.0	0.40	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	0.77	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	3.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.2	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	0.24	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.35	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.37	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.41	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.85	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.1	1.0	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
11Cl-PF3OUdS (F53B Major)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.3	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	52	12	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	52	9.8	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.36	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-18 | Sampled: 6/4/2024 10:05

Sample ID: 24F0897-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.56	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/13/24	6/14/24 2:42	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	44.9	10-130		6/14/24 2:42
13C5-PFPeA	83.6	35-150		6/14/24 2:42
13C5-PFHxA	81.1	55-150		6/14/24 2:42
13C4-PFHpA	74.1	55-150		6/14/24 2:42
13C8-PFOA	77.5	60-140		6/14/24 2:42
13C9-PFNA	78.0	55-140		6/14/24 2:42
13C6-PFDA	76.0	50-140		6/14/24 2:42
13C7-PFUnA	72.1	30-140		6/14/24 2:42
13C2-PFDoA	67.5	10-150		6/14/24 2:42
13C2-PFTeDA	53.1	10-130		6/14/24 2:42
13C3-PFBS	88.0	55-150		6/14/24 2:42
13C3-PFHxS	79.2	55-150		6/14/24 2:42
13C8-PFOS	79.7	45-140		6/14/24 2:42
13C2-4:2FTS	150	60-200		6/14/24 2:42
13C2-6:2FTS	130	60-200		6/14/24 2:42
13C2-8:2FTS	72.6	50-200		6/14/24 2:42
13C8-PFOSA	67.8	30-130		6/14/24 2:42
D3-NMeFOSA	59.3	15-130		6/14/24 2:42
D5-NEtFOSA	62.8	10-130		6/14/24 2:42
D3-NMeFOSAA	72.7	45-200		6/14/24 2:42
D5-NEtFOSAA	71.9	10-200		6/14/24 2:42
D7-NMeFOSE	63.3	10-150		6/14/24 2:42
D9-NEtFOSE	69.0	10-150		6/14/24 2:42
13C3-HFPO-DA	70.3	25-160		6/14/24 2:42

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-18 | Sampled: 6/4/2024 10:05

Sample ID: 24F0897-09

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	34	10	mg/L	1	H-01	Draft Method 1633	6/11/24	6/11/24 13:35	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-25 | Sampled: 6/4/2024 13:20

Sample ID: 24F0897-10

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	41	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Benzene	ND	20	2.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Bromochloromethane	ND	20	6.4	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Bromodichloromethane	ND	10	3.7	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Bromoform	ND	20	6.0	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Bromomethane	ND	40	30	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
2-Butanone (MEK)	ND	400	28	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
n-Butylbenzene	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
sec-Butylbenzene	ND	20	3.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
tert-Butylbenzene	ND	20	3.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Carbon Disulfide	ND	100	31	µg/L	20	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Carbon Tetrachloride	ND	100	3.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Chlorobenzene	ND	20	3.5	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Chlorodibromomethane	ND	10	2.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Chloroethane	ND	40	9.2	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Chloroform	ND	40	3.8	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Chloromethane	ND	40	9.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Cyclohexane	ND	100	35	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	13	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2-Dibromoethane (EDB)	ND	10	2.5	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2-Dichlorobenzene	ND	20	3.5	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,3-Dichlorobenzene	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,4-Dichlorobenzene	ND	20	3.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	40	4.0	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,1-Dichloroethane	ND	20	3.0	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2-Dichloroethane	ND	20	2.5	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,1-Dichloroethylene	ND	20	3.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
cis-1,2-Dichloroethylene	720	20	4.0	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
trans-1,2-Dichloroethylene	7.2	20	3.1	µg/L	20	J	SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2-Dichloropropane	ND	20	3.4	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
cis-1,3-Dichloropropene	ND	10	2.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
trans-1,3-Dichloropropene	ND	10	2.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Ethylbenzene	ND	20	2.7	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
2-Hexanone (MBK)	ND	200	27	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Isopropylbenzene (Cumene)	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Methyl Acetate	ND	20	9.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	20	3.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Methyl Cyclohexane	ND	20	2.7	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Methylene Chloride	ND	100	3.8	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	200	27	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Naphthalene	ND	40	4.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
n-Propylbenzene	ND	20	2.2	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Styrene	ND	20	2.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-25 | Sampled: 6/4/2024 13:20

Sample ID: 24F0897-10

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	10	2.0	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Tetrachloroethylene	5.2	20	3.3	µg/L	20	J	SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Toluene	ND	20	2.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2,3-Trichlorobenzene	ND	100	4.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2,4-Trichlorobenzene	ND	20	3.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,1,1-Trichloroethane	ND	20	2.8	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,1,2-Trichloroethane	ND	20	3.6	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Trichloroethylene	24	20	3.3	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Trichlorofluoromethane (Freon 11)	ND	40	2.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2,3-Trichloropropane	ND	40	5.4	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	3.2	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,2,4-Trimethylbenzene	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
1,3,5-Trimethylbenzene	ND	20	3.4	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Vinyl Chloride	160	40	3.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
m+p Xylene	ND	40	4.9	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
o-Xylene	ND	20	3.1	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF
Xylenes (total)	ND	20	20	µg/L	20		SW-846 8260D	6/11/24	6/12/24 17:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		6/12/24 17:08
Toluene-d8	94.8	70-130		6/12/24 17:08
4-Bromofluorobenzene	81.1	70-130		6/12/24 17:08

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-25 | Sampled: 6/4/2024 13:20

Sample ID: 24F0897-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	16	3.8	2.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoropentanoic acid (PFPeA)	35	1.9	0.40	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorohexanoic acid (PFHxA)	19	0.94	0.23	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoroheptanoic acid (PFHpA)	4.6	0.94	0.25	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorooctanoic acid (PFOA)	13	0.94	0.25	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorononanoic acid (PFNA)	1.7	0.94	0.18	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorodecanoic acid (PFDA)	0.23	0.94	0.20	ng/L	1	J	Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorododecanoic acid (PFDoA)	ND	0.94	0.19	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.94	0.28	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorobutanesulfonic acid (PFBS)	2.4	0.94	0.20	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoropentanesulfonic acid (PFPeS)	0.86	0.94	0.24	ng/L	1	J	Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorohexanesulfonic acid (PFHxS)	3.0	0.94	0.26	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoroheptanesulfonic acid (PFHpS)	0.36	0.94	0.31	ng/L	1	J	Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorooctanesulfonic acid (PFOS)	23	0.94	0.36	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.94	0.24	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.94	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.70	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	2.9	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.94	0.22	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.94	0.31	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.94	0.32	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-MeFOSAA (NMeFOSAA)	ND	0.94	0.34	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-EtFOSAA (NEtFOSAA)	ND	0.94	0.38	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.4	2.6	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.4	2.5	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.97	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.77	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.91	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
11Cl-PF3OUdS (F53B Major)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.4	2.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	11	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	9.0	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-25 | Sampled: 6/4/2024 13:20

Sample ID: 24F0897-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.51	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.52	ng/L	1		Draft Method 1633	6/26/24	6/27/24 3:58	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	54.8	10-130		6/27/24 3:58
13C5-PFPeA	82.6	35-150		6/27/24 3:58
13C5-PFHxA	71.0	55-150		6/27/24 3:58
13C4-PFHpA	72.4	55-150		6/27/24 3:58
13C8-PFOA	70.3	60-140		6/27/24 3:58
13C9-PFNA	69.2	55-140		6/27/24 3:58
13C6-PFDA	71.1	50-140		6/27/24 3:58
13C7-PFUnA	72.2	30-140		6/27/24 3:58
13C2-PFDoA	66.4	10-150		6/27/24 3:58
13C2-PFTeDA	60.8	10-130		6/27/24 3:58
13C3-PFBS	75.7	55-150		6/27/24 3:58
13C3-PFHxS	71.5	55-150		6/27/24 3:58
13C8-PFOS	70.2	45-140		6/27/24 3:58
13C2-4:2FTS	80.4	60-200		6/27/24 3:58
13C2-6:2FTS	78.5	60-200		6/27/24 3:58
13C2-8:2FTS	62.4	50-200		6/27/24 3:58
13C8-PFOSA	65.3	30-130		6/27/24 3:58
D3-NMeFOSA	55.8	15-130		6/27/24 3:58
D5-NEtFOSA	61.6	10-130		6/27/24 3:58
D3-NMeFOSAA	62.6	45-200		6/27/24 3:58
D5-NEtFOSAA	65.7	10-200		6/27/24 3:58
D7-NMeFOSE	64.2	10-150		6/27/24 3:58
D9-NEtFOSE	69.3	10-150		6/27/24 3:58
13C3-HFPO-DA	66.1	25-160		6/27/24 3:58

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-25 | Sampled: 6/4/2024 13:20

Sample ID: 24F0897-10

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-31 | Sampled: 6/4/2024 15:30

Sample ID: 24F0897-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
cis-1,2-Dichloroethylene	3.5	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-31 | Sampled: 6/4/2024 15:30

Sample ID: 24F0897-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Vinyl Chloride	3.5	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 14:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		6/12/24 14:28
Toluene-d8	95.2	70-130		6/12/24 14:28
4-Bromofluorobenzene	82.6	70-130		6/12/24 14:28

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-31 | Sampled: 6/4/2024 15:30

Sample ID: 24F0897-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.9	3.9	2.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoropentanoic acid (PFPeA)	15	2.0	0.42	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorohexanoic acid (PFHxA)	9.4	0.98	0.24	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoroheptanoic acid (PFHpA)	1.9	0.98	0.26	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorooctanoic acid (PFOA)	6.9	0.98	0.26	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorononanoic acid (PFNA)	1.3	0.98	0.18	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorodecanoic acid (PFDA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.98	0.20	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	0.29	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorobutanesulfonic acid (PFBS)	2.0	0.98	0.21	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.28	0.98	0.25	ng/L	1	J	Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.4	0.98	0.27	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	0.32	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorooctanesulfonic acid (PFOS)	30	0.98	0.38	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.98	0.25	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	0.28	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.73	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	3.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	0.23	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	0.32	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	0.33	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.98	0.35	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.98	0.39	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	2.7	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	2.6	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.81	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.94	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	2.1	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	11	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	9.3	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.34	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-31 | Sampled: 6/4/2024 15:30

Sample ID: 24F0897-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.53	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.54	ng/L	1		Draft Method 1633	6/25/24	6/26/24 21:55	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	65.5	10-130		6/26/24 21:55
13C5-PFPeA	89.3	35-150		6/26/24 21:55
13C5-PFHxA	81.0	55-150		6/26/24 21:55
13C4-PFHpA	81.8	55-150		6/26/24 21:55
13C8-PFOA	77.6	60-140		6/26/24 21:55
13C9-PFNA	77.1	55-140		6/26/24 21:55
13C6-PFDA	72.9	50-140		6/26/24 21:55
13C7-PFUnA	79.6	30-140		6/26/24 21:55
13C2-PFDoA	72.3	10-150		6/26/24 21:55
13C2-PFTeDA	69.3	10-130		6/26/24 21:55
13C3-PFBS	86.4	55-150		6/26/24 21:55
13C3-PFHxS	81.2	55-150		6/26/24 21:55
13C8-PFOS	76.3	45-140		6/26/24 21:55
13C2-4:2FTS	140	60-200		6/26/24 21:55
13C2-6:2FTS	96.1	60-200		6/26/24 21:55
13C2-8:2FTS	78.3	50-200		6/26/24 21:55
13C8-PFOSA	68.9	30-130		6/26/24 21:55
D3-NMeFOSA	62.1	15-130		6/26/24 21:55
D5-NEtFOSA	66.1	10-130		6/26/24 21:55
D3-NMeFOSAA	72.5	45-200		6/26/24 21:55
D5-NEtFOSAA	72.5	10-200		6/26/24 21:55
D7-NMeFOSE	71.0	10-150		6/26/24 21:55
D9-NEtFOSE	75.8	10-150		6/26/24 21:55
13C3-HFPO-DA	69.3	25-160		6/26/24 21:55

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: IW-31 | Sampled: 6/4/2024 15:30

Sample ID: 24F0897-11

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: DUP-20240604 | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,1-Dichloroethane	0.98	1.0	0.15	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
cis-1,2-Dichloroethylene	20	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
trans-1,2-Dichloroethylene	0.53	1.0	0.16	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Methyl tert-Butyl Ether (MTBE)	0.24	1.0	0.17	µg/L	1	J	SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: DUP-20240604 | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Tetrachloroethylene	14	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Trichloroethylene	6.6	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Vinyl Chloride	9.2	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 15:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		6/12/24 15:48
Toluene-d8	94.0	70-130		6/12/24 15:48
4-Bromofluorobenzene	83.4	70-130		6/12/24 15:48

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: DUP-20240604 | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-12

Sample Matrix: Ground Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	11	4.1	2.2	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoropentanoic acid (PFPeA)	30	2.1	0.44	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorohexanoic acid (PFHxA)	22	1.0	0.25	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoroheptanoic acid (PFHpA)	16	1.0	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorooctanoic acid (PFOA)	67	1.0	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorononanoic acid (PFNA)	8.5	1.0	0.19	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorodecanoic acid (PFDA)	8.9	1.0	0.21	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoroundecanoic acid (PFUnA)	0.30	1.0	0.21	ng/L	1	J	Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.21	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorobutanesulfonic acid (PFBS)	4.9	1.0	0.22	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoropentanesulfonic acid (PFPeS)	3.3	1.0	0.26	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorohexanesulfonic acid (PFHxS)	9.2	1.0	0.29	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoroheptanesulfonic acid (PFHpS)	3.5	1.0	0.34	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorooctanesulfonic acid (PFOS)	580	1.0	0.39	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorononanesulfonic acid (PFNS)	1.2	1.0	0.26	ng/L	1	PF-23	Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.1	0.77	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.1	3.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluorooctanesulfonamide (PFOSA)	4.4	1.0	0.24	ng/L	1	PF-22	Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	0.34	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.35	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-MeFOSAA (NMeFOSAA)	1.1	1.0	0.37	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-EtFOSAA (NEtFOSAA)	6.8	1.0	0.41	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	2.8	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.7	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.1	0.84	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
9Cl-PF3ONS (F53B Minor)	ND	4.1	0.99	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
11Cl-PF3OUdS (F53B Major)	ND	4.1	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	2.2	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	51	12	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	9.7	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.36	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: DUP-20240604 | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-12

Sample Matrix: Ground Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.55	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:13	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
13C4-PFBA	68.0	10-130		6/27/24	4:13
13C5-PFPeA	74.4	35-150		6/27/24	4:13
13C5-PFHxA	67.6	55-150		6/27/24	4:13
13C4-PFHpA	72.2	55-150		6/27/24	4:13
13C8-PFOA	64.3	60-140		6/27/24	4:13
13C9-PFNA	66.4	55-140		6/27/24	4:13
13C6-PFDA	67.6	50-140		6/27/24	4:13
13C7-PFUnA	72.9	30-140		6/27/24	4:13
13C2-PFDoA	68.3	10-150		6/27/24	4:13
13C2-PFTeDA	60.9	10-130		6/27/24	4:13
13C3-PFBS	71.2	55-150		6/27/24	4:13
13C3-PFHxS	68.8	55-150		6/27/24	4:13
13C8-PFOS	65.4	45-140		6/27/24	4:13
13C2-4:2FTS	123	60-200		6/27/24	4:13
13C2-6:2FTS	102	60-200		6/27/24	4:13
13C2-8:2FTS	90.4	50-200		6/27/24	4:13
13C8-PFOSA	67.2	30-130		6/27/24	4:13
D3-NMeFOSA	56.0	15-130		6/27/24	4:13
D5-NEtFOSA	58.9	10-130		6/27/24	4:13
D3-NMeFOSAA	70.3	45-200		6/27/24	4:13
D5-NEtFOSAA	64.9	10-200		6/27/24	4:13
D7-NMeFOSE	64.7	10-150		6/27/24	4:13
D9-NEtFOSE	67.9	10-150		6/27/24	4:13
13C3-HFPO-DA	60.7	25-160		6/27/24	4:13

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: DUP-20240604 | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-12

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	68	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 13:23	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: Equipment Blank-20240605 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-13

Sample Matrix: Equipment Blank Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	4.2	2.3	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoropentanoic acid (PFPeA)	ND	2.1	0.45	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorohexanoic acid (PFHxA)	ND	1.1	0.25	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoroheptanoic acid (PFHpA)	ND	1.1	0.28	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorooctanoic acid (PFOA)	0.47	1.1	0.28	ng/L	1	PF-23, J	Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorononanoic acid (PFNA)	ND	1.1	0.20	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorodecanoic acid (PFDA)	ND	1.1	0.22	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.1	0.21	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorododecanoic acid (PFDoA)	ND	1.1	0.21	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.1	0.31	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.1	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorobutanesulfonic acid (PFBS)	ND	1.1	0.22	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	1.1	0.27	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.1	0.29	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.1	0.35	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorooctanesulfonic acid (PFOS)	ND	1.1	0.40	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.1	0.26	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.1	0.30	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.1	0.30	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.2	0.78	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.2	3.2	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.2	1.2	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.1	0.24	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.1	0.34	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.1	0.35	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-MeFOSAA (NMeFOSAA)	ND	1.1	0.38	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-EtFOSAA (NEtFOSAA)	ND	1.1	0.42	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	11	2.9	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	11	2.8	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.2	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.2	0.86	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
9Cl-PF3ONS (F53B Minor)	ND	4.2	1.0	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
11Cl-PF3OUdS (F53B Major)	ND	4.2	1.1	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	11	2.3	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	53	12	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	53	10	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	0.37	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.1	0.58	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: Equipment Blank-20240605 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-13

Sample Matrix: Equipment Blank Water

Sample Flags: D-04

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	0.58	ng/L	1		Draft Method 1633	6/26/24	6/27/24 4:30	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	72.3	10-130		6/27/24 4:30
13C5-PFPeA	85.8	35-150		6/27/24 4:30
13C5-PFHxA	72.0	55-150		6/27/24 4:30
13C4-PFHpA	73.8	55-150		6/27/24 4:30
13C8-PFOA	73.2	60-140		6/27/24 4:30
13C9-PFNA	71.6	55-140		6/27/24 4:30
13C6-PFDA	69.3	50-140		6/27/24 4:30
13C7-PFUnA	69.8	30-140		6/27/24 4:30
13C2-PFDoA	66.4	10-150		6/27/24 4:30
13C2-PFTeDA	58.4	10-130		6/27/24 4:30
13C3-PFBS	73.3	55-150		6/27/24 4:30
13C3-PFHxS	70.1	55-150		6/27/24 4:30
13C8-PFOS	69.6	45-140		6/27/24 4:30
13C2-4:2FTS	66.8	60-200		6/27/24 4:30
13C2-6:2FTS	68.5	60-200		6/27/24 4:30
13C2-8:2FTS	68.8	50-200		6/27/24 4:30
13C8-PFOSA	62.8	30-130		6/27/24 4:30
D3-NMeFOSA	53.4	15-130		6/27/24 4:30
D5-NEtFOSA	58.0	10-130		6/27/24 4:30
D3-NMeFOSAA	59.9	45-200		6/27/24 4:30
D5-NEtFOSAA	60.2	10-200		6/27/24 4:30
D7-NMeFOSE	64.8	10-150		6/27/24 4:30
D9-NEtFOSE	67.8	10-150		6/27/24 4:30
13C3-HFPO-DA	63.7	25-160		6/27/24 4:30

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: Equipment Blank-20240605 | Sampled: 6/4/2024 12:00

Sample ID: 24F0897-13

Sample Matrix: Equipment Blank Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	6/10/24	6/10/24 6:07	LL

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: Trip Blank | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1	L-04, V-05	SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F0897

Date Received: 6/6/2024

Field Sample #: Trip Blank | Sampled: 6/4/2024 00:00

Sample ID: 24F0897-14

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/11/24	6/12/24 12:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		6/12/24 12:15
Toluene-d8	98.4	70-130		6/12/24 12:15
4-Bromofluorobenzene	82.8	70-130		6/12/24 12:15

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24F0897-02 [MW-2]	B376742	50.0	06/10/24
24F0897-03 [MW-5]	B376742	50.0	06/10/24
24F0897-04 [MW-7]	B376742	50.0	06/10/24
24F0897-05 [MW-10]	B376742	50.0	06/10/24
24F0897-07 [MW-13]	B376742	50.0	06/10/24
24F0897-08 [MW-14]	B376742	50.0	06/10/24
24F0897-10 [IW-25]	B376742	50.0	06/10/24
24F0897-11 [IW-31]	B376742	50.0	06/10/24
24F0897-12 [DUP-20240604]	B376742	50.0	06/10/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24F0897-13 [Equipment Blank-20240605]	B376743	50.0	06/10/24

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24F0897-01 [MW-1R]	B376845	50.0	06/11/24
24F0897-06 [MW-12]	B376845	50.0	06/11/24
24F0897-09 [IW-18]	B376845	50.0	06/11/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 6/10/2024 per NO PREP in Batch B376742

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F0897-02 [MW-2]	B376981	553	5.00	06/20/24
24F0897-03 [MW-5]	B376981	487	5.00	06/20/24
24F0897-05 [MW-10]	B376981	504	5.00	06/20/24
24F0897-08 [MW-14]	B376981	516	5.00	06/20/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 6/11/2024 per NO PREP in Batch B376845

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F0897-01 [MW-1R]	B377100	480	5.00	06/13/24
24F0897-06 [MW-12]	B377100	493	5.00	06/13/24
24F0897-09 [IW-18]	B377100	484	5.00	06/13/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 6/10/2024 per NO PREP in Batch B376742

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F0897-10 [IW-25]	B377883	530	5.00	06/26/24
24F0897-12 [DUP-20240604]	B377883	487	5.00	06/26/24
24F0897-13 [Equipment Blank-20240605]	B377883	476	5.00	06/26/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 6/10/2024 per NO PREP in Batch B376742

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

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Sample Extraction Data

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633** **Leachates were extracted on 6/10/2024 per NO PREP in Batch B376742**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F0897-04RE1 [MW-7]	B378271	527	5.00	06/25/24
24F0897-07RE1 [MW-13]	B378271	501	5.00	06/25/24
24F0897-11RE1 [IW-31]	B378271	510	5.00	06/25/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F0897-01 [MW-1R]	B376865	5	5.00	06/11/24
24F0897-02 [MW-2]	B376865	5	5.00	06/11/24
24F0897-03 [MW-5]	B376865	5	5.00	06/11/24
24F0897-04 [MW-7]	B376865	5	5.00	06/11/24
24F0897-06 [MW-12]	B376865	5	5.00	06/11/24
24F0897-07 [MW-13]	B376865	0.5	5.00	06/11/24
24F0897-08 [MW-14]	B376865	5	5.00	06/11/24
24F0897-09 [IW-18]	B376865	5	5.00	06/11/24
24F0897-10 [IW-25]	B376865	0.25	5.00	06/11/24
24F0897-11 [IW-31]	B376865	5	5.00	06/11/24
24F0897-12 [DUP-20240604]	B376865	5	5.00	06/11/24
24F0897-14 [Trip Blank]	B376865	5	5.00	06/11/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376865 - SW-846 5030B										
Blank (B376865-BLK1)				Prepared: 06/11/24 Analyzed: 06/12/24						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							L-04, V-05
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B376865 - SW-846 5030B												
Blank (B376865-BLK1)				Prepared: 06/11/24 Analyzed: 06/12/24								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Xylenes (total)	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*27.7*		µg/L	25.0		111		70-130				
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.2		70-130				
Surrogate: 4-Bromofluorobenzene	*20.9*		µg/L	25.0		83.5		70-130				
LCS (B376865-BS1)				Prepared: 06/11/24 Analyzed: 06/12/24								
Acetone	85.2	50	µg/L	100		85.2		70-160				†
Benzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromochloromethane	11.2	1.0	µg/L	10.0		112		70-130				
Bromodichloromethane	10.8	0.50	µg/L	10.0		108		70-130				
Bromoform	7.94	1.0	µg/L	10.0		79.4		70-130				
Bromomethane	12.0	2.0	µg/L	10.0		120		40-160			V-20	†
2-Butanone (MEK)	91.6	20	µg/L	100		91.6		40-160				†
n-Butylbenzene	8.64	1.0	µg/L	10.0		86.4		70-130				
sec-Butylbenzene	9.10	1.0	µg/L	10.0		91.0		70-130				
tert-Butylbenzene	9.31	1.0	µg/L	10.0		93.1		70-130				
Carbon Disulfide	59.2	5.0	µg/L	100		**59.2**	*	70-130			L-04, V-05	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107		70-130				
Chlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101		70-130				
Chloroethane	9.12	2.0	µg/L	10.0		91.2		70-130				
Chloroform	10.3	2.0	µg/L	10.0		103		70-130				
Chloromethane	9.78	2.0	µg/L	10.0		97.8		40-160				†
Cyclohexane	9.53	5.0	µg/L	10.0		95.3		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.17	5.0	µg/L	10.0		81.7		70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
1,3-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1		70-130				
1,4-Dichlorobenzene	9.76	1.0	µg/L	10.0		97.6		70-130				
Dichlorodifluoromethane (Freon 12)	10.0	2.0	µg/L	10.0		100		40-160				†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101		70-130				
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130				
1,1-Dichloroethylene	9.55	1.0	µg/L	10.0		95.5		70-130				
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130				
trans-1,2-Dichloroethylene	9.51	1.0	µg/L	10.0		95.1		70-130				
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108		70-130				
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130				
trans-1,3-Dichloropropene	9.68	0.50	µg/L	10.0		96.8		70-130				
Ethylbenzene	9.64	1.0	µg/L	10.0		96.4		70-130				
2-Hexanone (MBK)	87.1	10	µg/L	100		87.1		70-160				†
Isopropylbenzene (Cumene)	8.78	1.0	µg/L	10.0		87.8		70-130				
p-Isopropyltoluene (p-Cymene)	9.23	1.0	µg/L	10.0		92.3		70-130				
Methyl Acetate	8.91	1.0	µg/L	10.0		89.1		70-130				
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B376865 - SW-846 5030B												
LCS (B376865-BS1)				Prepared: 06/11/24 Analyzed: 06/12/24								
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104		70-130				
Methylene Chloride	9.61	5.0	µg/L	10.0		96.1		70-130				
4-Methyl-2-pentanone (MIBK)	90.9	10	µg/L	100		90.9		70-160				†
Naphthalene	7.42	2.0	µg/L	10.0		74.2		40-130				†
n-Propylbenzene	8.89	1.0	µg/L	10.0		88.9		70-130				
Styrene	8.66	1.0	µg/L	10.0		86.6		70-130				
1,1,2,2-Tetrachloroethane	8.49	0.50	µg/L	10.0		84.9		70-130				
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102		70-130				
Toluene	10.6	1.0	µg/L	10.0		106		70-130				
1,2,3-Trichlorobenzene	9.56	5.0	µg/L	10.0		95.6		70-130				
1,2,4-Trichlorobenzene	8.74	1.0	µg/L	10.0		87.4		70-130				
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130				
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106		70-130				
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.0		108		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.52	1.0	µg/L	10.0		95.2		70-130				
1,2,4-Trimethylbenzene	9.12	1.0	µg/L	10.0		91.2		70-130				
1,3,5-Trimethylbenzene	9.23	1.0	µg/L	10.0		92.3		70-130				
Vinyl Chloride	10.5	2.0	µg/L	10.0		105		40-160				†
m+p Xylene	18.9	2.0	µg/L	20.0		94.6		70-130				
o-Xylene	9.11	1.0	µg/L	10.0		91.1		70-130				
Xylenes (total)	28.0	1.0	µg/L	30.0		93.4		0-200				
Surrogate: 1,2-Dichloroethane-d4	*27.2*		µg/L	25.0		109		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*23.3*		µg/L	25.0		93.3		70-130				
LCS Dup (B376865-BSD1)				Prepared: 06/11/24 Analyzed: 06/12/24								
Acetone	86.8	50	µg/L	100		86.8		70-160	1.84	25		†
Benzene	10.4	1.0	µg/L	10.0		104		70-130	2.52	25		
Bromochloromethane	11.6	1.0	µg/L	10.0		116		70-130	3.50	25		
Bromodichloromethane	11.1	0.50	µg/L	10.0		111		70-130	2.84	25		
Bromoform	8.13	1.0	µg/L	10.0		81.3		70-130	2.36	25		
Bromomethane	13.0	2.0	µg/L	10.0		130		40-160	7.52	25	V-20	†
2-Butanone (MEK)	96.2	20	µg/L	100		96.2		40-160	4.85	25		†
n-Butylbenzene	9.25	1.0	µg/L	10.0		92.5		70-130	6.82	25		
sec-Butylbenzene	9.53	1.0	µg/L	10.0		95.3		70-130	4.62	25		
tert-Butylbenzene	9.61	1.0	µg/L	10.0		96.1		70-130	3.17	25		
Carbon Disulfide	61.9	5.0	µg/L	100		**61.9**	*	70-130	4.52	25	L-04, V-05	
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111		70-130	3.31	25		
Chlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	3.40	25		
Chlorodibromomethane	10.0	0.50	µg/L	10.0		100		70-130	0.498	25		
Chloroethane	9.25	2.0	µg/L	10.0		92.5		70-130	1.42	25		
Chloroform	10.8	2.0	µg/L	10.0		108		70-130	4.92	25		
Chloromethane	10.4	2.0	µg/L	10.0		104		40-160	6.62	25		†
Cyclohexane	9.79	5.0	µg/L	10.0		97.9		70-130	2.69	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.36	5.0	µg/L	10.0		93.6		70-130	13.6	25		
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100		70-130	3.34	25		
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130	3.32	25		
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	3.37	25		
1,4-Dichlorobenzene	9.71	1.0	µg/L	10.0		97.1		70-130	0.514	25		
Dichlorodifluoromethane (Freon 12)	11.1	2.0	µg/L	10.0		111		40-160	10.4	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376865 - SW-846 5030B										
LCS Dup (B376865-BSD1)				Prepared: 06/11/24 Analyzed: 06/12/24						
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.57	25	
1,2-Dichloroethane	11.5	1.0	µg/L	10.0		115	70-130	4.97	25	
1,1-Dichloroethylene	9.63	1.0	µg/L	10.0		96.3	70-130	0.834	25	
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	4.69	25	
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130	0.210	25	
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130	0.279	25	
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	5.12	25	
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	5.43	25	
Ethylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130	2.05	25	
2-Hexanone (MBK)	93.2	10	µg/L	100		93.2	70-160	6.79	25	†
Isopropylbenzene (Cumene)	8.98	1.0	µg/L	10.0		89.8	70-130	2.25	25	
p-Isopropyltoluene (p-Cymene)	9.57	1.0	µg/L	10.0		95.7	70-130	3.62	25	
Methyl Acetate	9.48	1.0	µg/L	10.0		94.8	70-130	6.20	25	
Methyl tert-Butyl Ether (MTBE)	9.69	1.0	µg/L	10.0		96.9	70-130	2.61	25	
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130	0.960	25	
Methylene Chloride	9.82	5.0	µg/L	10.0		98.2	70-130	2.16	25	
4-Methyl-2-pentanone (MIBK)	97.0	10	µg/L	100		97.0	70-160	6.54	25	†
Naphthalene	7.26	2.0	µg/L	10.0		72.6	40-130	2.18	25	†
n-Propylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130	5.90	25	
Styrene	9.38	1.0	µg/L	10.0		93.8	70-130	7.98	25	
1,1,2,2-Tetrachloroethane	9.38	0.50	µg/L	10.0		93.8	70-130	9.96	25	
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130	6.15	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	1.78	25	
1,2,3-Trichlorobenzene	9.24	5.0	µg/L	10.0		92.4	70-130	3.40	25	
1,2,4-Trichlorobenzene	8.71	1.0	µg/L	10.0		87.1	70-130	0.344	25	
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130	5.06	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	4.88	25	
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.09	25	
Trichlorofluoromethane (Freon 11)	10.9	2.0	µg/L	10.0		109	70-130	2.60	25	
1,2,3-Trichloropropane	11.2	2.0	µg/L	10.0		112	70-130	3.55	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.41	1.0	µg/L	10.0		94.1	70-130	1.16	25	
1,2,4-Trimethylbenzene	9.51	1.0	µg/L	10.0		95.1	70-130	4.19	25	
1,3,5-Trimethylbenzene	9.57	1.0	µg/L	10.0		95.7	70-130	3.62	25	
Vinyl Chloride	11.0	2.0	µg/L	10.0		110	40-160	5.12	25	†
m+p Xylene	20.0	2.0	µg/L	20.0		100	70-130	5.75	25	
o-Xylene	9.28	1.0	µg/L	10.0		92.8	70-130	1.85	25	
Xylenes (total)	29.3	1.0	µg/L	30.0		97.7	0-200	4.50		
Surrogate: 1,2-Dichloroethane-d4	*27.2*		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.0	70-130			
Matrix Spike (B376865-MS1)	**Source: 24F0897-03**			Prepared: 06/11/24 Analyzed: 06/12/24						
Acetone	69.7	50	µg/L	100	ND	**69.7**	* 70-130			MS-24
Benzene	8.77	1.0	µg/L	10.0	ND	87.7	70-130			
Bromochloromethane	9.08	1.0	µg/L	10.0	ND	90.8	70-130			
Bromodichloromethane	8.98	0.50	µg/L	10.0	ND	89.8	70-130			
Bromoform	6.90	1.0	µg/L	10.0	ND	**69.0**	* 70-130			MS-24
Bromomethane	10.8	2.0	µg/L	10.0	ND	108	70-130			V-20
2-Butanone (MEK)	74.0	20	µg/L	100	ND	74.0	70-130			
n-Butylbenzene	7.35	1.0	µg/L	10.0	ND	73.5	70-130			
sec-Butylbenzene	7.87	1.0	µg/L	10.0	ND	78.7	70-130			
tert-Butylbenzene	7.75	1.0	µg/L	10.0	ND	77.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B376865 - SW-846 5030B											
Matrix Spike (B376865-MS1)		**Source: 24F0897-03**		Prepared: 06/11/24 Analyzed: 06/12/24							
Carbon Disulfide	53.2	5.0	µg/L	100	ND	**53.2**	*	70-130			L-04, MS-09, V-05
Carbon Tetrachloride	10.4	5.0	µg/L	10.0	ND	104		70-130			
Chlorobenzene	9.03	1.0	µg/L	10.0	ND	90.3		70-130			
Chlorodibromomethane	8.50	0.50	µg/L	10.0	ND	85.0		70-130			
Chloroethane	8.34	2.0	µg/L	10.0	ND	83.4		70-130			
Chloroform	9.46	2.0	µg/L	10.0	ND	94.6		70-130			
Chloromethane	8.77	2.0	µg/L	10.0	ND	87.7		70-130			
Cyclohexane	8.86	5.0	µg/L	10.0	ND	88.6		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.10	5.0	µg/L	10.0	ND	71.0		70-130			
1,2-Dibromoethane (EDB)	8.41	0.50	µg/L	10.0	ND	84.1		70-130			
1,2-Dichlorobenzene	8.72	1.0	µg/L	10.0	ND	87.2		70-130			
1,3-Dichlorobenzene	8.47	1.0	µg/L	10.0	ND	84.7		70-130			
1,4-Dichlorobenzene	8.16	1.0	µg/L	10.0	ND	81.6		70-130			
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0	ND	105		70-130			
1,1-Dichloroethane	8.95	1.0	µg/L	10.0	ND	89.5		70-130			
1,2-Dichloroethane	9.92	1.0	µg/L	10.0	ND	99.2		70-130			
1,1-Dichloroethylene	8.71	1.0	µg/L	10.0	ND	87.1		70-130			
cis-1,2-Dichloroethylene	8.86	1.0	µg/L	10.0	ND	88.6		70-130			
trans-1,2-Dichloroethylene	8.18	1.0	µg/L	10.0	ND	81.8		70-130			
1,2-Dichloropropane	8.59	1.0	µg/L	10.0	ND	85.9		70-130			
cis-1,3-Dichloropropene	7.71	0.50	µg/L	10.0	ND	77.1		70-130			
trans-1,3-Dichloropropene	7.60	0.50	µg/L	10.0	ND	76.0		70-130			
Ethylbenzene	8.57	1.0	µg/L	10.0	ND	85.7		70-130			
2-Hexanone (MBK)	66.0	10	µg/L	100	ND	**66.0**	*	70-130			MS-24
Isopropylbenzene (Cumene)	7.82	1.0	µg/L	10.0	ND	78.2		70-130			
p-Isopropyltoluene (p-Cymene)	7.50	1.0	µg/L	10.0	ND	75.0		70-130			
Methyl Acetate	7.07	1.0	µg/L	10.0	ND	70.7		70-130			
Methyl tert-Butyl Ether (MTBE)	7.82	1.0	µg/L	10.0	ND	78.2		70-130			
Methyl Cyclohexane	9.09	1.0	µg/L	10.0	ND	90.9		70-130			
Methylene Chloride	8.26	5.0	µg/L	10.0	ND	82.6		70-130			
4-Methyl-2-pentanone (MIBK)	73.2	10	µg/L	100	ND	73.2		70-130			
Naphthalene	4.55	2.0	µg/L	10.0	ND	**45.5**	*	70-130			MS-07A
n-Propylbenzene	7.88	1.0	µg/L	10.0	ND	78.8		70-130			
Styrene	7.20	1.0	µg/L	10.0	ND	72.0		70-130			
1,1,2,2-Tetrachloroethane	7.37	0.50	µg/L	10.0	ND	73.7		70-130			
Tetrachloroethylene	9.29	1.0	µg/L	10.0	ND	92.9		70-130			
Toluene	8.85	1.0	µg/L	10.0	ND	88.5		70-130			
1,2,3-Trichlorobenzene	6.64	5.0	µg/L	10.0	ND	**66.4**	*	70-130			MS-24
1,2,4-Trichlorobenzene	5.93	1.0	µg/L	10.0	ND	**59.3**	*	70-130			MS-07A
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130			
1,1,2-Trichloroethane	8.68	1.0	µg/L	10.0	ND	86.8		70-130			
Trichloroethylene	9.04	1.0	µg/L	10.0	ND	90.4		70-130			
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0	ND	104		70-130			
1,2,3-Trichloropropane	8.83	2.0	µg/L	10.0	ND	88.3		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.28	1.0	µg/L	10.0	ND	92.8		70-130			
1,2,4-Trimethylbenzene	7.57	1.0	µg/L	10.0	ND	75.7		70-130			
1,3,5-Trimethylbenzene	7.94	1.0	µg/L	10.0	ND	79.4		70-130			
Vinyl Chloride	9.18	2.0	µg/L	10.0	ND	91.8		70-130			
m+p Xylene	16.7	2.0	µg/L	20.0	ND	83.4		70-130			
o-Xylene	7.85	1.0	µg/L	10.0	ND	78.5		70-130			
Xylenes (total)	24.5	1.0	µg/L	30.0	ND	81.7		0-200			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B376865 - SW-846 5030B											
Matrix Spike (B376865-MS1)	**Source: 24F0897-03**			Prepared: 06/11/24 Analyzed: 06/12/24							
Surrogate: 1,2-Dichloroethane-d4	*28.2*		µg/L	25.0		113		70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4		70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.0		70-130			
Matrix Spike Dup (B376865-MSD1)	**Source: 24F0897-03**			Prepared: 06/11/24 Analyzed: 06/12/24							
Acetone	77.0	50	µg/L	100	ND	77.0		70-130	9.93	30	
Benzene	9.32	1.0	µg/L	10.0	ND	93.2		70-130	6.08	30	
Bromochloromethane	9.77	1.0	µg/L	10.0	ND	97.7		70-130	7.32	30	
Bromodichloromethane	10.1	0.50	µg/L	10.0	ND	101		70-130	12.1	30	
Bromoform	7.40	1.0	µg/L	10.0	ND	74.0		70-130	6.99	30	
Bromomethane	10.8	2.0	µg/L	10.0	ND	108		70-130	0.741	30	V-20
2-Butanone (MEK)	82.5	20	µg/L	100	ND	82.5		70-130	10.9	30	
n-Butylbenzene	8.14	1.0	µg/L	10.0	ND	81.4		70-130	10.2	30	
sec-Butylbenzene	8.51	1.0	µg/L	10.0	ND	85.1		70-130	7.81	30	
tert-Butylbenzene	8.58	1.0	µg/L	10.0	ND	85.8		70-130	10.2	30	
Carbon Disulfide	56.3	5.0	µg/L	100	ND	**56.3**	*	70-130	5.57	30	L-04, MS-09, V-05
Carbon Tetrachloride	11.0	5.0	µg/L	10.0	ND	110		70-130	6.17	30	
Chlorobenzene	8.88	1.0	µg/L	10.0	ND	88.8		70-130	1.68	30	
Chlorodibromomethane	9.29	0.50	µg/L	10.0	ND	92.9		70-130	8.88	30	
Chloroethane	8.84	2.0	µg/L	10.0	ND	88.4		70-130	5.82	30	
Chloroform	9.92	2.0	µg/L	10.0	ND	99.2		70-130	4.75	30	
Chloromethane	9.56	2.0	µg/L	10.0	ND	95.6		70-130	8.62	30	
Cyclohexane	9.27	5.0	µg/L	10.0	ND	92.7		70-130	4.52	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.96	5.0	µg/L	10.0	ND	79.6		70-130	11.4	30	
1,2-Dibromoethane (EDB)	9.25	0.50	µg/L	10.0	ND	92.5		70-130	9.51	30	
1,2-Dichlorobenzene	9.08	1.0	µg/L	10.0	ND	90.8		70-130	4.04	30	
1,3-Dichlorobenzene	9.01	1.0	µg/L	10.0	ND	90.1		70-130	6.18	30	
1,4-Dichlorobenzene	8.63	1.0	µg/L	10.0	ND	86.3		70-130	5.60	30	
Dichlorodifluoromethane (Freon 12)	11.3	2.0	µg/L	10.0	ND	113		70-130	8.07	30	
1,1-Dichloroethane	9.56	1.0	µg/L	10.0	ND	95.6		70-130	6.59	30	
1,2-Dichloroethane	10.9	1.0	µg/L	10.0	ND	109		70-130	9.05	30	
1,1-Dichloroethylene	9.22	1.0	µg/L	10.0	ND	92.2		70-130	5.69	30	
cis-1,2-Dichloroethylene	9.43	1.0	µg/L	10.0	ND	94.3		70-130	6.23	30	
trans-1,2-Dichloroethylene	9.16	1.0	µg/L	10.0	ND	91.6		70-130	11.3	30	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0	ND	102		70-130	16.6	30	
cis-1,3-Dichloropropene	8.89	0.50	µg/L	10.0	ND	88.9		70-130	14.2	30	
trans-1,3-Dichloropropene	8.32	0.50	µg/L	10.0	ND	83.2		70-130	9.05	30	
Ethylbenzene	8.67	1.0	µg/L	10.0	ND	86.7		70-130	1.16	30	
2-Hexanone (MBK)	79.0	10	µg/L	100	ND	79.0		70-130	17.9	30	
Isopropylbenzene (Cumene)	7.83	1.0	µg/L	10.0	ND	78.3		70-130	0.128	30	
p-Isopropyltoluene (p-Cymene)	8.28	1.0	µg/L	10.0	ND	82.8		70-130	9.89	30	
Methyl Acetate	7.59	1.0	µg/L	10.0	ND	75.9		70-130	7.09	30	
Methyl tert-Butyl Ether (MTBE)	8.06	1.0	µg/L	10.0	ND	80.6		70-130	3.02	30	
Methyl Cyclohexane	10.3	1.0	µg/L	10.0	ND	103		70-130	12.6	30	
Methylene Chloride	8.97	5.0	µg/L	10.0	ND	89.7		70-130	8.24	30	
4-Methyl-2-pentanone (MIBK)	83.0	10	µg/L	100	ND	83.0		70-130	12.5	30	
Naphthalene	5.27	2.0	µg/L	10.0	ND	**52.7**	*	70-130	14.7	30	MS-07A
n-Propylbenzene	8.15	1.0	µg/L	10.0	ND	81.5		70-130	3.37	30	
Styrene	7.48	1.0	µg/L	10.0	ND	74.8		70-130	3.81	30	
1,1,2,2-Tetrachloroethane	7.59	0.50	µg/L	10.0	ND	75.9		70-130	2.94	30	
Tetrachloroethylene	10.1	1.0	µg/L	10.0	ND	101		70-130	8.65	30	
Toluene	9.78	1.0	µg/L	10.0	ND	97.8		70-130	9.98	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B376865 - SW-846 5030B											
Matrix Spike Dup (B376865-MSD1)	**Source: 24F0897-03**			Prepared: 06/11/24 Analyzed: 06/12/24							
1,2,3-Trichlorobenzene	7.57	5.0	µg/L	10.0	ND	75.7		70-130	13.1	30	
1,2,4-Trichlorobenzene	6.60	1.0	µg/L	10.0	ND	**66.0**	*	70-130	10.7	30	MS-07A
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0	ND	106		70-130	1.91	30	
1,1,2-Trichloroethane	9.66	1.0	µg/L	10.0	ND	96.6		70-130	10.7	30	
Trichloroethylene	10.2	1.0	µg/L	10.0	ND	102		70-130	12.2	30	
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0	ND	108		70-130	3.88	30	
1,2,3-Trichloropropane	9.57	2.0	µg/L	10.0	ND	95.7		70-130	8.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.61	1.0	µg/L	10.0	ND	96.1		70-130	3.49	30	
1,2,4-Trimethylbenzene	7.92	1.0	µg/L	10.0	ND	79.2		70-130	4.52	30	
1,3,5-Trimethylbenzene	7.98	1.0	µg/L	10.0	ND	79.8		70-130	0.503	30	
Vinyl Chloride	9.62	2.0	µg/L	10.0	ND	96.2		70-130	4.68	30	
m+p Xylene	17.0	2.0	µg/L	20.0	ND	84.8		70-130	1.72	20	
o-Xylene	7.85	1.0	µg/L	10.0	ND	78.5		70-130	0.00	30	
Xylenes (total)	24.8	1.0	µg/L	30.0	ND	82.7		0-200	1.18		
Surrogate: 1,2-Dichloroethane-d4	*28.5*		µg/L	25.0		114		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*23.3*		µg/L	25.0		93.1		70-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
Blank (B376981-BLK1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*74.2*		ng/L	98.1		75.6	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
Blank (B376981-BLK1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Surrogate: 13C5-PFPeA	*39.9*		ng/L	49.0		81.3	35-150			
Surrogate: 13C5-PFHxA	*18.9*		ng/L	24.5		77.2	55-150			
Surrogate: 13C4-PFHpA	*18.8*		ng/L	24.5		76.6	55-150			
Surrogate: 13C8-PFOA	*18.3*		ng/L	24.5		74.8	60-140			
Surrogate: 13C9-PFNA	*9.63*		ng/L	12.3		78.6	55-140			
Surrogate: 13C6-PFDA	*8.91*		ng/L	12.3		72.6	50-140			
Surrogate: 13C7-PFUnA	*8.76*		ng/L	12.3		71.4	30-140			
Surrogate: 13C2-PFDoA	*8.17*		ng/L	12.3		66.6	10-150			
Surrogate: 13C2-PFTeDA	*7.64*		ng/L	12.3		62.3	10-130			
Surrogate: 13C3-PFBS	*19.0*		ng/L	24.5		77.7	55-150			
Surrogate: 13C3-PFHxS	*18.9*		ng/L	24.5		77.1	55-150			
Surrogate: 13C8-PFOS	*17.7*		ng/L	24.5		72.0	45-140			
Surrogate: 13C2-4:2FTS	*32.5*		ng/L	49.0		66.3	60-200			
Surrogate: 13C2-6:2FTS	*33.0*		ng/L	49.0		67.2	60-200			
Surrogate: 13C2-8:2FTS	*27.2*		ng/L	49.0		55.4	50-200			
Surrogate: 13C8-PFOSA	*16.9*		ng/L	24.5		69.0	30-130			
Surrogate: D3-NMeFOSA	*12.5*		ng/L	24.5		51.0	15-130			
Surrogate: D5-NEtFOSA	*12.9*		ng/L	24.5		52.6	10-130			
Surrogate: D3-NMeFOSAA	*35.8*		ng/L	49.0		73.1	45-200			
Surrogate: D5-NEtFOSAA	*32.7*		ng/L	49.0		66.7	10-200			
Surrogate: D7-NMeFOSE	*144*		ng/L	245		58.8	10-150			
Surrogate: D9-NEtFOSE	*135*		ng/L	245		55.2	10-150			
Surrogate: 13C3-HFPO-DA	*79.6*		ng/L	98.1		81.2	25-160			
LCS (B376981-BS1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorobutanoic acid (PFBA)	90.0	3.9	ng/L	94.0		95.7	58-148			
Perfluoropentanoic acid (PFPeA)	45.6	2.0	ng/L	47.0		97.0	54-152			
Perfluorohexanoic acid (PFHxA)	22.2	0.98	ng/L	23.5		94.2	55-152			
Perfluoroheptanoic acid (PFHpA)	22.6	0.98	ng/L	23.5		96.0	54-154			
Perfluorooctanoic acid (PFOA)	22.9	0.98	ng/L	23.5		97.3	52-161			
Perfluorononanoic acid (PFNA)	22.2	0.98	ng/L	23.5		94.4	59-149			
Perfluorodecanoic acid (PFDA)	23.4	0.98	ng/L	23.5		99.7	52-147			
Perfluoroundecanoic acid (PFUnA)	21.0	0.98	ng/L	23.5		89.2	48-159			
Perfluorododecanoic acid (PFDoA)	22.2	0.98	ng/L	23.5		94.6	64-142			
Perfluorotridecanoic acid (PFTrDA)	21.3	0.98	ng/L	23.5		90.8	49-148			
Perfluorotetradecanoic acid (PFTeDA)	22.0	0.98	ng/L	23.5		93.5	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.0	0.98	ng/L	20.9		95.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	20.8	0.98	ng/L	22.1		93.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	23.6	0.98	ng/L	21.5		110	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.0	0.98	ng/L	22.4		98.3	55-152			
Perfluorooctanesulfonic acid (PFOS)	25.5	0.98	ng/L	21.8		117	58-149			
Perfluorononanesulfonic acid (PFNS)	20.2	0.98	ng/L	22.6		89.3	52-148			
Perfluorodecanesulfonic acid (PFDS)	19.7	0.98	ng/L	22.7		86.6	51-147			
Perfluorododecanesulfonic acid (PFDoS)	18.9	0.98	ng/L	22.8		82.9	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	89.2	3.9	ng/L	88.2		101	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	88.2	3.9	ng/L	89.3		98.8	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.4	3.9	ng/L	90.5		99.9	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.2	0.98	ng/L	23.5		94.6	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.3	0.98	ng/L	23.5		95.1	63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
LCS (B376981-BS1)				Prepared: 06/20/24 Analyzed: 06/21/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.7	0.98	ng/L	23.5		92.5	65-139			
N-MeFOSAA (NMeFOSAA)	27.4	0.98	ng/L	23.5		117	58-144			
N-EtFOSAA (NEtFOSAA)	25.9	0.98	ng/L	23.5		110	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	239	9.8	ng/L	235		101	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	240	9.8	ng/L	235		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.4	3.9	ng/L	94.0		101	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	86.3	3.9	ng/L	88.7		97.2	68-146			
9Cl-PF3ONS (F53B Minor)	88.7	3.9	ng/L	88.2		101	56-156			
11Cl-PF3OUdS (F53B Major)	80.0	3.9	ng/L	88.7		90.2	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	212	9.8	ng/L	235		90.1	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1130	49	ng/L	1180		96.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1040	49	ng/L	1180		88.6	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	46.3	2.0	ng/L	41.8		111	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.2	2.0	ng/L	47.0		100	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	45.9	2.0	ng/L	47.0		97.6	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	53.7	2.0	ng/L	47.0		114	48-161			
Surrogate: 13C4-PFBA	*74.8*		ng/L	98.0		76.3	10-130			
Surrogate: 13C5-PFPeA	*40.1*		ng/L	49.0		81.8	35-150			
Surrogate: 13C5-PFHxA	*18.5*		ng/L	24.5		75.7	55-150			
Surrogate: 13C4-PFHpA	*18.6*		ng/L	24.5		76.1	55-150			
Surrogate: 13C8-PFOA	*17.8*		ng/L	24.5		72.6	60-140			
Surrogate: 13C9-PFNA	*9.33*		ng/L	12.2		76.2	55-140			
Surrogate: 13C6-PFDA	*9.29*		ng/L	12.2		75.9	50-140			
Surrogate: 13C7-PFUnA	*9.11*		ng/L	12.2		74.4	30-140			
Surrogate: 13C2-PFDoA	*8.38*		ng/L	12.2		68.5	10-150			
Surrogate: 13C2-PFTeDA	*7.95*		ng/L	12.2		65.0	10-130			
Surrogate: 13C3-PFBS	*19.3*		ng/L	24.5		78.8	55-150			
Surrogate: 13C3-PFHxS	*18.8*		ng/L	24.5		77.0	55-150			
Surrogate: 13C8-PFOS	*19.2*		ng/L	24.5		78.6	45-140			
Surrogate: 13C2-4:2FTS	*33.0*		ng/L	49.0		67.3	60-200			
Surrogate: 13C2-6:2FTS	*34.4*		ng/L	49.0		70.3	60-200			
Surrogate: 13C2-8:2FTS	*29.1*		ng/L	49.0		59.5	50-200			
Surrogate: 13C8-PFOSA	*17.1*		ng/L	24.5		70.0	30-130			
Surrogate: D3-NMeFOSA	*11.5*		ng/L	24.5		46.8	15-130			
Surrogate: D5-NEtFOSA	*11.5*		ng/L	24.5		47.1	10-130			
Surrogate: D3-NMeFOSAA	*39.1*		ng/L	49.0		79.9	45-200			
Surrogate: D5-NEtFOSAA	*34.7*		ng/L	49.0		70.9	10-200			
Surrogate: D7-NMeFOSE	*150*		ng/L	245		61.3	10-150			
Surrogate: D9-NEtFOSE	*142*		ng/L	245		58.2	10-150			
Surrogate: 13C3-HFPO-DA	*77.2*		ng/L	98.0		78.9	25-160			
MRL Check (B376981-MRL1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorobutanoic acid (PFBA)	7.85	3.9	ng/L	7.84		100	44-157			
Perfluoropentanoic acid (PFPeA)	3.86	2.0	ng/L	3.92		98.5	57-148			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
MRL Check (B376981-MRL1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorohexanoic acid (PFHxA)	1.77	0.98	ng/L	1.96		90.2	62-149			
Perfluoroheptanoic acid (PFHpA)	1.84	0.98	ng/L	1.96		93.7	56-150			
Perfluorooctanoic acid (PFOA)	2.19	0.98	ng/L	1.96		111	57-161			
Perfluorononanoic acid (PFNA)	1.78	0.98	ng/L	1.96		90.7	53-157			
Perfluorodecanoic acid (PFDA)	1.71	0.98	ng/L	1.96		87.2	43-158			
Perfluoroundecanoic acid (PFUnA)	1.82	0.98	ng/L	1.96		92.9	50-155			
Perfluorododecanoic acid (PFDoA)	1.79	0.98	ng/L	1.96		91.3	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.71	0.98	ng/L	1.96		87.2	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.80	0.98	ng/L	1.96		91.7	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.62	0.98	ng/L	1.74		93.2	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.63	0.98	ng/L	1.84		88.4	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.95	0.98	ng/L	1.79		109	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.73	0.98	ng/L	1.87		92.7	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.44	0.98	ng/L	1.82		134	43-162			
Perfluorononanesulfonic acid (PFNS)	1.88	0.98	ng/L	1.89		99.5	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.71	0.98	ng/L	1.89		90.5	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.69	0.98	ng/L	1.90		88.9	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.32	3.9	ng/L	7.35		99.6	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.82	3.9	ng/L	7.45		91.4	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.14	3.9	ng/L	7.55		94.5	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.84	0.98	ng/L	1.96		93.9	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.86	0.98	ng/L	1.96		95.0	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.77	0.98	ng/L	1.96		90.2	49-156			
N-MeFOSAA (NMeFOSAA)	2.45	0.98	ng/L	1.96		125	32-160			
N-EtFOSAA (NEtFOSAA)	2.13	0.98	ng/L	1.96		109	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.1	9.8	ng/L	19.6		97.3	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.7	9.8	ng/L	19.6		100	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.32	3.9	ng/L	7.84		93.3	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.21	3.9	ng/L	7.40		83.9	61-148			
9Cl-PF3ONS (F53B Minor)	6.42	3.9	ng/L	7.35		87.3	44-167			
11Cl-PF3OUdS (F53B Major)	5.93	3.9	ng/L	7.40		80.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.2	9.8	ng/L	19.6		87.8	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	83.6	49	ng/L	98.1		85.2	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	74.1	49	ng/L	98.1		75.6	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.36	2.0	ng/L	3.49		96.4	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.66	2.0	ng/L	3.92		93.3	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.31	2.0	ng/L	3.92		84.3	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.91	2.0	ng/L	3.92		99.7	47-160			
Surrogate: 13C4-PFBA	*76.4*		ng/L	98.1		77.9	10-130			
Surrogate: 13C5-PFPeA	*39.3*		ng/L	49.0		80.1	35-150			
Surrogate: 13C5-PFHxA	*18.8*		ng/L	24.5		76.8	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
MRL Check (B376981-MRL1)				Prepared: 06/20/24 Analyzed: 06/21/24						
Surrogate: 13C4-PFHpA	*18.3*		ng/L	24.5		74.8	55-150			
Surrogate: 13C8-PFOA	*19.1*		ng/L	24.5		77.9	60-140			
Surrogate: 13C9-PFNA	*9.01*		ng/L	12.3		73.5	55-140			
Surrogate: 13C6-PFDA	*9.09*		ng/L	12.3		74.2	50-140			
Surrogate: 13C7-PFUnA	*8.72*		ng/L	12.3		71.1	30-140			
Surrogate: 13C2-PFDoA	*8.29*		ng/L	12.3		67.6	10-150			
Surrogate: 13C2-PFTeDA	*7.86*		ng/L	12.3		64.2	10-130			
Surrogate: 13C3-PFBS	*19.7*		ng/L	24.5		80.5	55-150			
Surrogate: 13C3-PFHxS	*19.1*		ng/L	24.5		77.8	55-150			
Surrogate: 13C8-PFOS	*17.5*		ng/L	24.5		71.2	45-140			
Surrogate: 13C2-4:2FTS	*32.6*		ng/L	49.0		66.4	60-200			
Surrogate: 13C2-6:2FTS	*34.1*		ng/L	49.0		69.5	60-200			
Surrogate: 13C2-8:2FTS	*28.0*		ng/L	49.0		57.1	50-200			
Surrogate: 13C8-PFOSA	*17.0*		ng/L	24.5		69.2	30-130			
Surrogate: D3-NMeFOSA	*14.2*		ng/L	24.5		58.0	15-130			
Surrogate: D5-NEtFOSA	*14.4*		ng/L	24.5		58.6	10-130			
Surrogate: D3-NMeFOSAA	*35.7*		ng/L	49.0		72.9	45-200			
Surrogate: D5-NEtFOSAA	*33.8*		ng/L	49.0		68.9	10-200			
Surrogate: D7-NMeFOSE	*151*		ng/L	245		61.6	10-150			
Surrogate: D9-NEtFOSE	*141*		ng/L	245		57.5	10-150			
Surrogate: 13C3-HFPO-DA	*79.3*		ng/L	98.1		80.9	25-160			
Matrix Spike (B376981-MS1)		**Source: 24F0897-03**		Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorobutanoic acid (PFBA)	92.0	3.8	ng/L	91.8	5.80	93.9	58-148			
Perfluoropentanoic acid (PFPeA)	49.1	1.9	ng/L	45.9	4.89	96.4	54-152			
Perfluorohexanoic acid (PFHxA)	25.0	0.96	ng/L	23.0	3.18	95.2	55-152			
Perfluoroheptanoic acid (PFHpA)	23.6	0.96	ng/L	23.0	1.66	95.4	54-154			
Perfluorooctanoic acid (PFOA)	26.3	0.96	ng/L	23.0	4.49	94.9	52-161			
Perfluorononanoic acid (PFNA)	21.2	0.96	ng/L	23.0	0.363	90.9	59-149			
Perfluorodecanoic acid (PFDA)	21.6	0.96	ng/L	23.0	ND	94.3	52-147			
Perfluoroundecanoic acid (PFUnA)	21.5	0.96	ng/L	23.0	ND	93.7	48-159			
Perfluorododecanoic acid (PFDoA)	20.7	0.96	ng/L	23.0	ND	90.1	64-142			
Perfluorotridecanoic acid (PFTrDA)	19.8	0.96	ng/L	23.0	ND	86.5	49-148			
Perfluorotetradecanoic acid (PFTeDA)	21.5	0.96	ng/L	23.0	ND	93.6	47-161			
Perfluorobutanesulfonic acid (PFBS)	21.1	0.96	ng/L	20.4	1.75	94.9	62-144			
Perfluoropentanesulfonic acid (PFPeS)	21.0	0.96	ng/L	21.6	0.519	94.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	23.7	0.96	ng/L	21.0	1.03	108	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.4	0.96	ng/L	21.9	ND	102	55-152			
Perfluorooctanesulfonic acid (PFOS)	25.9	0.96	ng/L	21.3	1.24	116	58-149			
Perfluorononanesulfonic acid (PFNS)	18.8	0.96	ng/L	22.1	ND	85.2	52-148			
Perfluorodecanesulfonic acid (PFDS)	18.6	0.96	ng/L	22.2	ND	83.9	51-147			
Perfluorododecanesulfonic acid (PFDoS)	18.7	0.96	ng/L	22.3	ND	83.8	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.1	3.8	ng/L	86.1	ND	101	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.2	3.8	ng/L	87.2	ND	96.5	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.6	3.8	ng/L	88.4	ND	96.8	63-152			
Perfluorooctanesulfonamide (PFOSA)	21.4	0.96	ng/L	23.0	ND	93.4	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	21.4	0.96	ng/L	23.0	ND	93.0	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.9	0.96	ng/L	23.0	ND	91.2	65-139			
N-MeFOSAA (NMeFOSAA)	25.6	0.96	ng/L	23.0	ND	111	58-144			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
Matrix Spike (B376981-MS1)	**Source: 24F0897-03**			Prepared: 06/20/24 Analyzed: 06/21/24						
N-EtFOSAA (NEtFOSAA)	24.0	0.96	ng/L	23.0	ND	104	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	218	9.6	ng/L	230	ND	94.9	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	223	9.6	ng/L	230	ND	97.2	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.1	3.8	ng/L	91.8	ND	96.0	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	80.1	3.8	ng/L	86.7	ND	92.4	68-146			
9Cl-PF3ONS (F53B Minor)	78.6	3.8	ng/L	86.1	ND	91.3	56-156			
11Cl-PF3OUdS (F53B Major)	70.9	3.8	ng/L	86.7	ND	81.8	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	163	9.6	ng/L	230	ND	70.9	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1080	48	ng/L	1150	ND	94.4	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1040	48	ng/L	1150	ND	90.9	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	44.7	1.9	ng/L	40.9	ND	109	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	42.8	1.9	ng/L	45.9	ND	93.2	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	45.4	1.9	ng/L	45.9	ND	99.0	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.1	1.9	ng/L	45.9	ND	107	48-161			
Surrogate: 13C4-PFBA	*36.2*		ng/L	95.6		37.9	10-130			
Surrogate: 13C5-PFPeA	*35.8*		ng/L	47.8		74.8	35-150			
Surrogate: 13C5-PFHxA	*18.1*		ng/L	23.9		75.6	55-150			
Surrogate: 13C4-PFHpA	*18.8*		ng/L	23.9		78.8	55-150			
Surrogate: 13C8-PFOA	*18.9*		ng/L	23.9		79.2	60-140			
Surrogate: 13C9-PFNA	*8.89*		ng/L	12.0		74.4	55-140			
Surrogate: 13C6-PFDA	*8.58*		ng/L	12.0		71.8	50-140			
Surrogate: 13C7-PFUnA	*8.01*		ng/L	12.0		67.0	30-140			
Surrogate: 13C2-PFDoA	*8.09*		ng/L	12.0		67.7	10-150			
Surrogate: 13C2-PFTeDA	*7.58*		ng/L	12.0		63.4	10-130			
Surrogate: 13C3-PFBS	*18.7*		ng/L	23.9		78.4	55-150			
Surrogate: 13C3-PFHxS	*18.5*		ng/L	23.9		77.5	55-150			
Surrogate: 13C8-PFOS	*16.8*		ng/L	23.9		70.4	45-140			
Surrogate: 13C2-4:2FTS	*57.7*		ng/L	47.8		121	60-200			
Surrogate: 13C2-6:2FTS	*49.3*		ng/L	47.8		103	60-200			
Surrogate: 13C2-8:2FTS	*32.0*		ng/L	47.8		66.9	50-200			
Surrogate: 13C8-PFOSA	*17.0*		ng/L	23.9		71.3	30-130			
Surrogate: D3-NMeFOSA	*13.4*		ng/L	23.9		56.1	15-130			
Surrogate: D5-NEtFOSA	*13.3*		ng/L	23.9		55.5	10-130			
Surrogate: D3-NMeFOSAA	*36.6*		ng/L	47.8		76.4	45-200			
Surrogate: D5-NEtFOSAA	*34.6*		ng/L	47.8		72.3	10-200			
Surrogate: D7-NMeFOSE	*136*		ng/L	239		56.9	10-150			
Surrogate: D9-NEtFOSE	*131*		ng/L	239		54.9	10-150			
Surrogate: 13C3-HFPO-DA	*77.5*		ng/L	95.6		81.1	25-160			
Matrix Spike Dup (B376981-MSD1)	**Source: 24F0897-03**			Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorobutanoic acid (PFBA)	97.8	3.9	ng/L	94.6	5.80	97.2	58-148	6.11	20	
Perfluoropentanoic acid (PFPeA)	53.1	2.0	ng/L	47.3	4.89	102	54-152	7.65	20	
Perfluorohexanoic acid (PFHxA)	26.5	0.99	ng/L	23.7	3.18	98.7	55-152	5.81	25	
Perfluoroheptanoic acid (PFHpA)	25.2	0.99	ng/L	23.7	1.66	99.6	54-154	6.85	25	
Perfluorooctanoic acid (PFOA)	28.0	0.99	ng/L	23.7	4.49	99.4	52-161	6.37	25	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
Matrix Spike Dup (B376981-MSD1)	**Source: 24F0897-03**			Prepared: 06/20/24 Analyzed: 06/21/24						
Perfluorononanoic acid (PFNA)	22.8	0.99	ng/L	23.7	0.363	94.9	59-149	7.22	25	
Perfluorodecanoic acid (PFDA)	24.3	0.99	ng/L	23.7	ND	103	52-147	11.8	25	
Perfluoroundecanoic acid (PFUnA)	23.3	0.99	ng/L	23.7	ND	98.6	48-159	8.13	30	
Perfluorododecanoic acid (PFDoA)	22.7	0.99	ng/L	23.7	ND	95.9	64-142	9.23	25	
Perfluorotridecanoic acid (PFTrDA)	22.1	0.99	ng/L	23.7	ND	93.6	49-148	10.9	25	
Perfluorotetradecanoic acid (PFTeDA)	23.1	0.99	ng/L	23.7	ND	97.5	47-161	7.18	25	
Perfluorobutanesulfonic acid (PFBS)	22.2	0.99	ng/L	21.0	1.75	97.2	62-144	5.01	20	
Perfluoropentanesulfonic acid (PFPeS)	22.0	0.99	ng/L	22.2	0.519	96.8	59-151	4.91	25	
Perfluorohexanesulfonic acid (PFHxS)	25.1	0.99	ng/L	21.6	1.03	111	57-146	5.48	25	
Perfluoroheptanesulfonic acid (PFHpS)	23.9	0.99	ng/L	22.5	ND	106	55-152	6.70	25	
Perfluorooctanesulfonic acid (PFOS)	28.3	0.99	ng/L	21.9	1.24	123	58-149	8.63	20	
Perfluorononanesulfonic acid (PFNS)	20.8	0.99	ng/L	22.8	ND	91.5	52-148	10.2	25	
Perfluorodecanesulfonic acid (PFDS)	19.9	0.99	ng/L	22.8	ND	87.0	51-147	6.64	25	
Perfluorododecanesulfonic acid (PFDoS)	19.9	0.99	ng/L	22.9	ND	86.8	36-145	6.49	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.9	3.9	ng/L	88.7	ND	104	67-146	5.44	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	91.1	3.9	ng/L	89.9	ND	101	61-151	7.82	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	92.7	3.9	ng/L	91.1	ND	102	63-152	8.01	30	
Perfluorooctanesulfonamide (PFOSA)	22.9	0.99	ng/L	23.7	ND	97.0	61-148	6.80	20	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.2	0.99	ng/L	23.7	ND	97.9	63-145	8.08	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.0	0.99	ng/L	23.7	ND	92.9	65-139	4.94	25	
N-MeFOSAA (NMeFOSAA)	26.4	0.99	ng/L	23.7	ND	111	58-144	3.10	25	
N-EtFOSAA (NEtFOSAA)	23.5	0.99	ng/L	23.7	ND	99.5	59-146	1.84	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	237	9.9	ng/L	237	ND	100	71-136	8.59	20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	243	9.9	ng/L	237	ND	103	69-137	8.37	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.5	3.9	ng/L	94.6	ND	96.7	63-144	3.78	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	86.2	3.9	ng/L	89.3	ND	96.5	68-146	7.36	20	
9Cl-PF3ONS (F53B Minor)	85.4	3.9	ng/L	88.7	ND	96.3	56-156	8.36	30	
11Cl-PF3OUdS (F53B Major)	75.8	3.9	ng/L	89.3	ND	84.8	46-156	6.69	35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	180	9.9	ng/L	237	ND	75.9	62-129	9.85	20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1140	49	ng/L	1180	ND	96.2	63-134	4.93	20	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1080	49	ng/L	1180	ND	91.7	50-138	3.88	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	48.2	2.0	ng/L	42.1	ND	115	56-151	7.54	20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	46.2	2.0	ng/L	47.3	ND	97.7	51-145	7.69	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.7	2.0	ng/L	47.3	ND	103	55-148	6.83	20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	51.9	2.0	ng/L	47.3	ND	110	48-161	5.71	35	
Surrogate: 13C4-PFBA	*35.7*		ng/L	98.6		36.2	10-130			
Surrogate: 13C5-PFPeA	*35.5*		ng/L	49.3		72.0	35-150			
Surrogate: 13C5-PFHxA	*17.7*		ng/L	24.6		71.9	55-150			
Surrogate: 13C4-PFHpA	*18.6*		ng/L	24.6		75.3	55-150			
Surrogate: 13C8-PFOA	*17.5*		ng/L	24.6		70.9	60-140			
Surrogate: 13C9-PFNA	*8.71*		ng/L	12.3		70.7	55-140			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376981 - Draft Method 1633										
Matrix Spike Dup (B376981-MSD1)	**Source: 24F0897-03**			Prepared: 06/20/24 Analyzed: 06/21/24						
Surrogate: 13C6-PFDA	*8.07*		ng/L	12.3		65.5	50-140			
Surrogate: 13C7-PFUnA	*7.50*		ng/L	12.3		60.9	30-140			
Surrogate: 13C2-PFDoA	*7.43*		ng/L	12.3		60.3	10-150			
Surrogate: 13C2-PFTeDA	*7.11*		ng/L	12.3		57.7	10-130			
Surrogate: 13C3-PFBS	*18.8*		ng/L	24.6		76.3	55-150			
Surrogate: 13C3-PFHxS	*18.5*		ng/L	24.6		75.1	55-150			
Surrogate: 13C8-PFOS	*16.6*		ng/L	24.6		67.4	45-140			
Surrogate: 13C2-4:2FTS	*55.3*		ng/L	49.3		112	60-200			
Surrogate: 13C2-6:2FTS	*49.0*		ng/L	49.3		99.4	60-200			
Surrogate: 13C2-8:2FTS	*32.0*		ng/L	49.3		65.0	50-200			
Surrogate: 13C8-PFOSA	*16.6*		ng/L	24.6		67.2	30-130			
Surrogate: D3-NMeFOSA	*13.3*		ng/L	24.6		53.8	15-130			
Surrogate: D5-NEtFOSA	*13.5*		ng/L	24.6		54.8	10-130			
Surrogate: D3-NMeFOSAA	*35.3*		ng/L	49.3		71.6	45-200			
Surrogate: D5-NEtFOSAA	*34.5*		ng/L	49.3		70.0	10-200			
Surrogate: D7-NMeFOSE	*131*		ng/L	246		53.1	10-150			
Surrogate: D9-NEtFOSE	*125*		ng/L	246		50.8	10-150			
Surrogate: 13C3-HFPO-DA	*73.7*		ng/L	98.6		74.8	25-160			
Batch B377100 - Draft Method 1633										
Blank (B377100-BLK1)				Prepared & Analyzed: 06/13/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377100 - Draft Method 1633										
Blank (B377100-BLK1)				Prepared & Analyzed: 06/13/24						
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*85.4*		ng/L	97.6		87.4	10-130			
Surrogate: 13C5-PFPeA	*46.0*		ng/L	48.8		94.3	35-150			
Surrogate: 13C5-PFHxA	*20.9*		ng/L	24.4		85.6	55-150			
Surrogate: 13C4-PFHpA	*20.3*		ng/L	24.4		83.4	55-150			
Surrogate: 13C8-PFOA	*20.1*		ng/L	24.4		82.3	60-140			
Surrogate: 13C9-PFNA	*10.5*		ng/L	12.2		85.7	55-140			
Surrogate: 13C6-PFDA	*10.3*		ng/L	12.2		84.3	50-140			
Surrogate: 13C7-PFUnA	*9.47*		ng/L	12.2		77.6	30-140			
Surrogate: 13C2-PFDoA	*8.97*		ng/L	12.2		73.5	10-150			
Surrogate: 13C2-PFTeDA	*8.63*		ng/L	12.2		70.7	10-130			
Surrogate: 13C3-PFBS	*23.1*		ng/L	24.4		94.8	55-150			
Surrogate: 13C3-PFHxS	*20.7*		ng/L	24.4		84.6	55-150			
Surrogate: 13C8-PFOS	*19.6*		ng/L	24.4		80.5	45-140			
Surrogate: 13C2-4:2FTS	*42.1*		ng/L	48.8		86.2	60-200			
Surrogate: 13C2-6:2FTS	*40.7*		ng/L	48.8		83.5	60-200			
Surrogate: 13C2-8:2FTS	*38.0*		ng/L	48.8		77.9	50-200			
Surrogate: 13C8-PFOSA	*16.8*		ng/L	24.4		69.0	30-130			
Surrogate: D3-NMeFOSA	*16.3*		ng/L	24.4		66.9	15-130			
Surrogate: D5-NEtFOSA	*18.2*		ng/L	24.4		74.6	10-130			
Surrogate: D3-NMeFOSAA	*39.1*		ng/L	48.8		80.1	45-200			
Surrogate: D5-NEtFOSAA	*37.5*		ng/L	48.8		76.8	10-200			
Surrogate: D7-NMeFOSE	*159*		ng/L	244		65.1	10-150			
Surrogate: D9-NEtFOSE	*171*		ng/L	244		70.1	10-150			
Surrogate: 13C3-HFPO-DA	*78.4*		ng/L	97.6		80.3	25-160			
LCS (B377100-BS1)				Prepared: 06/13/24 Analyzed: 06/14/24						
Perfluorobutanoic acid (PFBA)	88.3	3.9	ng/L	93.9		94.0	58-148			
Perfluoropentanoic acid (PFPeA)	44.5	2.0	ng/L	47.0		94.8	54-152			
Perfluorohexanoic acid (PFHxA)	22.2	0.98	ng/L	23.5		94.7	55-152			
Perfluoroheptanoic acid (PFHpA)	22.1	0.98	ng/L	23.5		94.0	54-154			
Perfluorooctanoic acid (PFOA)	22.5	0.98	ng/L	23.5		95.9	52-161			
Perfluorononanoic acid (PFNA)	22.2	0.98	ng/L	23.5		94.5	59-149			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377100 - Draft Method 1633										
LCS (B377100-BS1)				Prepared: 06/13/24 Analyzed: 06/14/24						
Perfluorodecanoic acid (PFDA)	22.8	0.98	ng/L	23.5		97.1	52-147			
Perfluoroundecanoic acid (PFUnA)	21.8	0.98	ng/L	23.5		93.0	48-159			
Perfluorododecanoic acid (PFDoA)	22.3	0.98	ng/L	23.5		94.9	64-142			
Perfluorotridecanoic acid (PFTrDA)	21.2	0.98	ng/L	23.5		90.4	49-148			
Perfluorotetradecanoic acid (PFTeDA)	23.0	0.98	ng/L	23.5		97.9	47-161			
Perfluorobutanesulfonic acid (PFBS)	19.5	0.98	ng/L	20.8		93.4	62-144			
Perfluoropentanesulfonic acid (PFPeS)	21.4	0.98	ng/L	22.1		97.2	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.5	0.98	ng/L	21.5		90.6	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	21.7	0.98	ng/L	22.4		96.9	55-152			
Perfluorooctanesulfonic acid (PFOS)	19.9	0.98	ng/L	21.8		91.6	58-149			
Perfluorononanesulfonic acid (PFNS)	21.7	0.98	ng/L	22.6		95.9	52-148			
Perfluorodecanesulfonic acid (PFDS)	19.5	0.98	ng/L	22.7		86.2	51-147			
Perfluorododecanesulfonic acid (PFDoS)	19.7	0.98	ng/L	22.8		86.7	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.3	3.9	ng/L	88.1		91.2	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	83.6	3.9	ng/L	89.2		93.7	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.1	3.9	ng/L	90.4		93.0	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.2	0.98	ng/L	23.5		94.4	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.7	0.98	ng/L	23.5		96.8	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.2	0.98	ng/L	23.5		94.3	65-139			
N-MeFOSAA (NMeFOSAA)	22.1	0.98	ng/L	23.5		94.1	58-144			
N-EtFOSAA (NEtFOSAA)	21.1	0.98	ng/L	23.5		89.7	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	232	9.8	ng/L	235		99.0	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	237	9.8	ng/L	235		101	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.1	3.9	ng/L	93.9		95.9	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	87.6	3.9	ng/L	88.6		98.8	68-146			
9Cl-PF3ONS (F53B Minor)	86.8	3.9	ng/L	88.1		98.6	56-156			
11Cl-PF3OUdS (F53B Major)	83.2	3.9	ng/L	88.6		93.8	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	183	9.8	ng/L	235		78.1	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1000	49	ng/L	1170		85.5	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	958	49	ng/L	1170		81.6	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	41.0	2.0	ng/L	41.8		98.1	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	41.8	2.0	ng/L	47.0		89.0	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	42.3	2.0	ng/L	47.0		90.1	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	51.6	2.0	ng/L	47.0		110	48-161			
Surrogate: 13C4-PFBA	*82.3*		ng/L	97.8		84.1	10-130			
Surrogate: 13C5-PFPeA	*43.5*		ng/L	48.9		88.9	35-150			
Surrogate: 13C5-PFHxA	*20.0*		ng/L	24.5		81.9	55-150			
Surrogate: 13C4-PFHpA	*19.5*		ng/L	24.5		79.7	55-150			
Surrogate: 13C8-PFOA	*19.1*		ng/L	24.5		78.0	60-140			
Surrogate: 13C9-PFNA	*10.0*		ng/L	12.2		81.8	55-140			
Surrogate: 13C6-PFDA	*9.48*		ng/L	12.2		77.5	50-140			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377100 - Draft Method 1633										
LCS (B377100-BS1)				Prepared: 06/13/24 Analyzed: 06/14/24						
Surrogate: 13C7-PFUnA	*9.03*		ng/L	12.2		73.9	30-140			
Surrogate: 13C2-PFDoA	*9.03*		ng/L	12.2		73.8	10-150			
Surrogate: 13C2-PFTeDA	*8.02*		ng/L	12.2		65.5	10-130			
Surrogate: 13C3-PFBS	*21.9*		ng/L	24.5		89.6	55-150			
Surrogate: 13C3-PFHxS	*19.9*		ng/L	24.5		81.3	55-150			
Surrogate: 13C8-PFOS	*19.7*		ng/L	24.5		80.6	45-140			
Surrogate: 13C2-4:2FTS	*41.3*		ng/L	48.9		84.5	60-200			
Surrogate: 13C2-6:2FTS	*42.0*		ng/L	48.9		85.8	60-200			
Surrogate: 13C2-8:2FTS	*39.1*		ng/L	48.9		79.9	50-200			
Surrogate: 13C8-PFOSA	*18.9*		ng/L	24.5		77.2	30-130			
Surrogate: D3-NMeFOSA	*17.8*		ng/L	24.5		72.7	15-130			
Surrogate: D5-NEtFOSA	*19.5*		ng/L	24.5		79.8	10-130			
Surrogate: D3-NMeFOSAA	*38.4*		ng/L	48.9		78.5	45-200			
Surrogate: D5-NEtFOSAA	*37.9*		ng/L	48.9		77.5	10-200			
Surrogate: D7-NMeFOSE	*180*		ng/L	245		73.7	10-150			
Surrogate: D9-NEtFOSE	*183*		ng/L	245		74.8	10-150			
Surrogate: 13C3-HFPO-DA	*75.3*		ng/L	97.8		77.0	25-160			
MRL Check (B377100-MRL1)				Prepared: 06/13/24 Analyzed: 06/14/24						
Perfluorobutanoic acid (PFBA)	7.66	3.9	ng/L	7.88		97.2	44-157			
Perfluoropentanoic acid (PFPeA)	3.66	2.0	ng/L	3.94		92.9	57-148			
Perfluorohexanoic acid (PFHxA)	1.90	0.99	ng/L	1.97		96.6	62-149			
Perfluoroheptanoic acid (PFHpA)	1.72	0.99	ng/L	1.97		87.4	56-150			
Perfluorooctanoic acid (PFOA)	2.00	0.99	ng/L	1.97		101	57-161			
Perfluorononanoic acid (PFNA)	1.69	0.99	ng/L	1.97		85.6	53-157			
Perfluorodecanoic acid (PFDA)	1.82	0.99	ng/L	1.97		92.4	43-158			
Perfluoroundecanoic acid (PFUnA)	1.87	0.99	ng/L	1.97		94.7	50-155			
Perfluorododecanoic acid (PFDoA)	1.77	0.99	ng/L	1.97		89.6	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.64	0.99	ng/L	1.97		83.1	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.83	0.99	ng/L	1.97		92.9	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.66	0.99	ng/L	1.75		94.7	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.89	0.99	ng/L	1.85		102	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.75	0.99	ng/L	1.80		97.2	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.96	0.99	ng/L	1.88		104	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.99	0.99	ng/L	1.83		109	43-162			
Perfluorononanesulfonic acid (PFNS)	1.78	0.99	ng/L	1.90		94.1	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.68	0.99	ng/L	1.90		88.1	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.68	0.99	ng/L	1.91		87.7	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.34	3.9	ng/L	7.39		85.8	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.56	3.9	ng/L	7.49		87.6	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	6.84	3.9	ng/L	7.59		90.2	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.84	0.99	ng/L	1.97		93.4	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.84	0.99	ng/L	1.97		93.5	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.90	0.99	ng/L	1.97		96.5	49-156			
N-MeFOSAA (NMeFOSAA)	1.75	0.99	ng/L	1.97		88.8	32-160			
N-EtFOSAA (NEtFOSAA)	2.07	0.99	ng/L	1.97		105	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	18.1	9.9	ng/L	19.7		92.0	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	18.3	9.9	ng/L	19.7		93.1	60-147			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377100 - Draft Method 1633										
MRL Check (B377100-MRL1)				Prepared: 06/13/24 Analyzed: 06/14/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.26	3.9	ng/L	7.88		79.5	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.35	3.9	ng/L	7.44		85.4	61-148			
9Cl-PF3ONS (F53B Minor)	5.77	3.9	ng/L	7.39		78.1	44-167			
11Cl-PF3OUdS (F53B Major)	5.64	3.9	ng/L	7.44		75.8	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	14.6	9.9	ng/L	19.7		74.0	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	77.8	49	ng/L	98.5		78.9	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	69.8	49	ng/L	98.5		70.8	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.16	2.0	ng/L	3.51		90.1	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.01	2.0	ng/L	3.94		76.4	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.09	2.0	ng/L	3.94		78.3	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.05	2.0	ng/L	3.94		103	47-160			
Surrogate: 13C4-PFBA	*80.7*		ng/L	98.5		81.9	10-130			
Surrogate: 13C5-PFPeA	*44.3*		ng/L	49.3		89.9	35-150			
Surrogate: 13C5-PFHxA	*20.1*		ng/L	24.6		81.6	55-150			
Surrogate: 13C4-PFHpA	*18.7*		ng/L	24.6		75.8	55-150			
Surrogate: 13C8-PFOA	*18.8*		ng/L	24.6		76.5	60-140			
Surrogate: 13C9-PFNA	*9.59*		ng/L	12.3		77.8	55-140			
Surrogate: 13C6-PFDA	*8.90*		ng/L	12.3		72.3	50-140			
Surrogate: 13C7-PFUnA	*8.12*		ng/L	12.3		65.9	30-140			
Surrogate: 13C2-PFDoA	*8.26*		ng/L	12.3		67.0	10-150			
Surrogate: 13C2-PFTeDA	*7.58*		ng/L	12.3		61.5	10-130			
Surrogate: 13C3-PFBS	*21.8*		ng/L	24.6		88.5	55-150			
Surrogate: 13C3-PFHxS	*19.5*		ng/L	24.6		79.1	55-150			
Surrogate: 13C8-PFOS	*18.3*		ng/L	24.6		74.2	45-140			
Surrogate: 13C2-4:2FTS	*39.7*		ng/L	49.3		80.6	60-200			
Surrogate: 13C2-6:2FTS	*39.0*		ng/L	49.3		79.2	60-200			
Surrogate: 13C2-8:2FTS	*37.5*		ng/L	49.3		76.2	50-200			
Surrogate: 13C8-PFOSA	*17.6*		ng/L	24.6		71.5	30-130			
Surrogate: D3-NMeFOSA	*16.8*		ng/L	24.6		68.1	15-130			
Surrogate: D5-NEtFOSA	*18.2*		ng/L	24.6		73.9	10-130			
Surrogate: D3-NMeFOSAA	*37.7*		ng/L	49.3		76.6	45-200			
Surrogate: D5-NEtFOSAA	*35.8*		ng/L	49.3		72.8	10-200			
Surrogate: D7-NMeFOSE	*171*		ng/L	246		69.5	10-150			
Surrogate: D9-NEtFOSE	*179*		ng/L	246		72.7	10-150			
Surrogate: 13C3-HFPO-DA	*76.7*		ng/L	98.5		77.9	25-160			
Batch B377883 - Draft Method 1633										
Blank (B377883-BLK1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.97	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.97	ng/L							
Perfluorooctanoic acid (PFOA)	0.65	0.97	ng/L							J
Perfluorononanoic acid (PFNA)	ND	0.97	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.97	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.97	ng/L							

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377883 - Draft Method 1633										
Blank (B377883-BLK1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Perfluorododecanoic acid (PFDoA)	ND	0.97	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.97	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.97	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.97	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.97	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.97	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.97	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.97	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.97	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.97	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.97	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.97	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.97	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.97	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.97	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.97	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.7	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.7	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.7	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Surrogate: 13C4-PFBA	*82.8*		ng/L	97.2		85.2	10-130			
Surrogate: 13C5-PFPeA	*47.7*		ng/L	48.6		98.1	35-150			
Surrogate: 13C5-PFHxA	*20.5*		ng/L	24.3		84.3	55-150			
Surrogate: 13C4-PFHpA	*19.9*		ng/L	24.3		82.0	55-150			
Surrogate: 13C8-PFOA	*19.8*		ng/L	24.3		81.4	60-140			
Surrogate: 13C9-PFNA	*9.45*		ng/L	12.1		77.8	55-140			
Surrogate: 13C6-PFDA	*10.1*		ng/L	12.1		83.2	50-140			
Surrogate: 13C7-PFUnA	*10.6*		ng/L	12.1		87.2	30-140			
Surrogate: 13C2-PFDoA	*9.99*		ng/L	12.1		82.2	10-150			

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377883 - Draft Method 1633										
Blank (B377883-BLK1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Surrogate: 13C2-PFTeDA	*9.31*		ng/L	12.1		76.6	10-130			
Surrogate: 13C3-PFBS	*21.6*		ng/L	24.3		88.9	55-150			
Surrogate: 13C3-PFHxS	*20.9*		ng/L	24.3		85.8	55-150			
Surrogate: 13C8-PFOS	*20.2*		ng/L	24.3		83.1	45-140			
Surrogate: 13C2-4:2FTS	*39.4*		ng/L	48.6		81.1	60-200			
Surrogate: 13C2-6:2FTS	*39.7*		ng/L	48.6		81.6	60-200			
Surrogate: 13C2-8:2FTS	*39.6*		ng/L	48.6		81.5	50-200			
Surrogate: 13C8-PFOSA	*18.1*		ng/L	24.3		74.6	30-130			
Surrogate: D3-NMeFOSA	*17.5*		ng/L	24.3		72.0	15-130			
Surrogate: D5-NEtFOSA	*19.3*		ng/L	24.3		79.6	10-130			
Surrogate: D3-NMeFOSAA	*35.3*		ng/L	48.6		72.7	45-200			
Surrogate: D5-NEtFOSAA	*33.9*		ng/L	48.6		69.8	10-200			
Surrogate: D7-NMeFOSE	*205*		ng/L	243		84.5	10-150			
Surrogate: D9-NEtFOSE	*224*		ng/L	243		92.4	10-150			
Surrogate: 13C3-HFPO-DA	*74.3*		ng/L	97.2		76.4	25-160			
LCS (B377883-BS1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Perfluorobutanoic acid (PFBA)	93.5	4.0	ng/L	95.1		98.3	58-148			
Perfluoropentanoic acid (PFPeA)	47.3	2.0	ng/L	47.5		99.6	54-152			
Perfluorohexanoic acid (PFHxA)	23.0	0.99	ng/L	23.8		97.0	55-152			
Perfluoroheptanoic acid (PFHpA)	22.6	0.99	ng/L	23.8		95.3	54-154			
Perfluorooctanoic acid (PFOA)	22.7	0.99	ng/L	23.8		95.4	52-161			
Perfluorononanoic acid (PFNA)	22.7	0.99	ng/L	23.8		95.6	59-149			
Perfluorodecanoic acid (PFDA)	22.8	0.99	ng/L	23.8		95.8	52-147			
Perfluoroundecanoic acid (PFUnA)	21.8	0.99	ng/L	23.8		91.9	48-159			
Perfluorododecanoic acid (PFDoA)	22.9	0.99	ng/L	23.8		96.4	64-142			
Perfluorotridecanoic acid (PFTrDA)	20.4	0.99	ng/L	23.8		85.9	49-148			
Perfluorotetradecanoic acid (PFTeDA)	22.7	0.99	ng/L	23.8		95.5	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.2	0.99	ng/L	21.1		96.0	62-144			
Perfluoropentanesulfonic acid (PFPeS)	21.9	0.99	ng/L	22.3		97.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.7	0.99	ng/L	21.7		90.4	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.5	0.99	ng/L	22.6		104	55-152			
Perfluorooctanesulfonic acid (PFOS)	20.7	0.99	ng/L	22.0		93.8	58-149			
Perfluorononanesulfonic acid (PFNS)	23.3	0.99	ng/L	22.9		102	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.9	0.99	ng/L	22.9		100	51-147			
Perfluorododecanesulfonic acid (PFDoS)	21.7	0.99	ng/L	23.1		94.3	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.9	4.0	ng/L	89.1		102	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.3	4.0	ng/L	90.3		96.7	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.7	4.0	ng/L	91.5		99.1	63-152			
Perfluorooctanesulfonamide (PFOSA)	21.8	0.99	ng/L	23.8		91.6	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.1	0.99	ng/L	23.8		97.1	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.5	0.99	ng/L	23.8		98.8	65-139			
N-MeFOSAA (NMeFOSAA)	21.1	0.99	ng/L	23.8		88.6	58-144			
N-EtFOSAA (NEtFOSAA)	19.2	0.99	ng/L	23.8		80.7	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	239	9.9	ng/L	238		100	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	244	9.9	ng/L	238		103	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100	4.0	ng/L	95.1		106	63-144			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377883 - Draft Method 1633										
LCS (B377883-BS1)				Prepared: 06/26/24 Analyzed: 06/27/24						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	107	4.0	ng/L	89.7		120	68-146			
9Cl-PF3ONS (F53B Minor)	111	4.0	ng/L	89.1		125	56-156			
11Cl-PF3OUdS (F53B Major)	112	4.0	ng/L	89.7		125	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	210	9.9	ng/L	238		88.5	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1130	50	ng/L	1190		95.1	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1060	50	ng/L	1190		89.5	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	48.1	2.0	ng/L	42.3		114	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	43.4	2.0	ng/L	47.5		91.3	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.0	2.0	ng/L	47.5		86.2	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.7	2.0	ng/L	47.5		134	48-161			
Surrogate: 13C4-PFBA	*74.1*		ng/L	99.0		74.8	10-130			
Surrogate: 13C5-PFPeA	*44.9*		ng/L	49.5		90.7	35-150			
Surrogate: 13C5-PFHxA	*18.3*		ng/L	24.8		73.8	55-150			
Surrogate: 13C4-PFHpA	*18.3*		ng/L	24.8		73.8	55-150			
Surrogate: 13C8-PFOA	*17.6*		ng/L	24.8		71.2	60-140			
Surrogate: 13C9-PFNA	*9.05*		ng/L	12.4		73.1	55-140			
Surrogate: 13C6-PFDA	*8.86*		ng/L	12.4		71.5	50-140			
Surrogate: 13C7-PFUnA	*9.31*		ng/L	12.4		75.3	30-140			
Surrogate: 13C2-PFDoA	*9.29*		ng/L	12.4		75.1	10-150			
Surrogate: 13C2-PFTeDA	*8.34*		ng/L	12.4		67.4	10-130			
Surrogate: 13C3-PFBS	*19.4*		ng/L	24.8		78.2	55-150			
Surrogate: 13C3-PFHxS	*18.5*		ng/L	24.8		74.6	55-150			
Surrogate: 13C8-PFOS	*17.7*		ng/L	24.8		71.7	45-140			
Surrogate: 13C2-4:2FTS	*35.5*		ng/L	49.5		71.7	60-200			
Surrogate: 13C2-6:2FTS	*35.4*		ng/L	49.5		71.5	60-200			
Surrogate: 13C2-8:2FTS	*37.4*		ng/L	49.5		75.4	50-200			
Surrogate: 13C8-PFOSA	*18.0*		ng/L	24.8		72.7	30-130			
Surrogate: D3-NMeFOSA	*16.5*		ng/L	24.8		66.6	15-130			
Surrogate: D5-NEtFOSA	*18.1*		ng/L	24.8		73.2	10-130			
Surrogate: D3-NMeFOSAA	*34.1*		ng/L	49.5		69.0	45-200			
Surrogate: D5-NEtFOSAA	*34.9*		ng/L	49.5		70.5	10-200			
Surrogate: D7-NMeFOSE	*193*		ng/L	248		78.0	10-150			
Surrogate: D9-NEtFOSE	*210*		ng/L	248		84.7	10-150			
Surrogate: 13C3-HFPO-DA	*63.6*		ng/L	99.0		64.2	25-160			
MRL Check (B377883-MRL1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Perfluorobutanoic acid (PFBA)	8.40	3.9	ng/L	7.78		108	44-157			
Perfluoropentanoic acid (PFPeA)	4.08	1.9	ng/L	3.89		105	57-148			
Perfluorohexanoic acid (PFHxA)	2.05	0.97	ng/L	1.94		105	62-149			
Perfluoroheptanoic acid (PFHpA)	1.84	0.97	ng/L	1.94		94.8	56-150			
Perfluorooctanoic acid (PFOA)	2.31	0.97	ng/L	1.94		119	57-161			
Perfluorononanoic acid (PFNA)	1.91	0.97	ng/L	1.94		98.4	53-157			
Perfluorodecanoic acid (PFDA)	2.04	0.97	ng/L	1.94		105	43-158			
Perfluoroundecanoic acid (PFUnA)	1.87	0.97	ng/L	1.94		96.0	50-155			
Perfluorododecanoic acid (PFDoA)	1.91	0.97	ng/L	1.94		98.2	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.71	0.97	ng/L	1.94		88.1	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.82	0.97	ng/L	1.94		93.6	52-156			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377883 - Draft Method 1633										
MRL Check (B377883-MRL1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Perfluorobutanesulfonic acid (PFBS)	1.77	0.97	ng/L	1.73		103	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.94	0.97	ng/L	1.83		106	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.90	0.97	ng/L	1.78		107	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.03	0.97	ng/L	1.85		110	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.82	0.97	ng/L	1.80		101	43-162			
Perfluorononanesulfonic acid (PFNS)	1.85	0.97	ng/L	1.87		98.8	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.84	0.97	ng/L	1.88		98.3	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.71	0.97	ng/L	1.89		90.9	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.22	3.9	ng/L	7.29		99.1	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.59	3.9	ng/L	7.39		103	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.99	3.9	ng/L	7.48		107	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.00	0.97	ng/L	1.94		103	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.04	0.97	ng/L	1.94		105	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.17	0.97	ng/L	1.94		112	49-156			
N-MeFOSAA (NMeFOSAA)	2.06	0.97	ng/L	1.94		106	32-160			
N-EtFOSAA (NEtFOSAA)	1.67	0.97	ng/L	1.94		86.0	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.8	9.7	ng/L	19.4		107	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.1	9.7	ng/L	19.4		109	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.36	3.9	ng/L	7.78		94.6	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.66	3.9	ng/L	7.34		104	61-148			
9Cl-PF3ONS (F53B Minor)	7.95	3.9	ng/L	7.29		109	44-167			
11Cl-PF3OUdS (F53B Major)	7.43	3.9	ng/L	7.34		101	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.2	9.7	ng/L	19.4		88.6	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	84.9	49	ng/L	97.2		87.4	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	76.5	49	ng/L	97.2		78.7	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.51	1.9	ng/L	3.46		101	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.37	1.9	ng/L	3.89		86.6	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.12	1.9	ng/L	3.89		80.3	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.99	1.9	ng/L	3.89		128	47-160			
Surrogate: 13C4-PFBA	*70.7*		ng/L	97.2		72.7	10-130			
Surrogate: 13C5-PFPeA	*40.7*		ng/L	48.6		83.7	35-150			
Surrogate: 13C5-PFHxA	*17.3*		ng/L	24.3		71.2	55-150			
Surrogate: 13C4-PFHpA	*17.2*		ng/L	24.3		70.7	55-150			
Surrogate: 13C8-PFOA	*16.9*		ng/L	24.3		69.4	60-140			
Surrogate: 13C9-PFNA	*8.90*		ng/L	12.1		73.2	55-140			
Surrogate: 13C6-PFDA	*7.96*		ng/L	12.1		65.5	50-140			
Surrogate: 13C7-PFUnA	*8.14*		ng/L	12.1		67.0	30-140			
Surrogate: 13C2-PFDoA	*8.11*		ng/L	12.1		66.7	10-150			
Surrogate: 13C2-PFTeDA	*7.53*		ng/L	12.1		62.0	10-130			
Surrogate: 13C3-PFBS	*17.9*		ng/L	24.3		73.8	55-150			
Surrogate: 13C3-PFHxS	*17.2*		ng/L	24.3		70.6	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377883 - Draft Method 1633										
MRL Check (B377883-MRL1)				Prepared: 06/26/24 Analyzed: 06/27/24						
Surrogate: 13C8-PFOS	*16.6*		ng/L	24.3		68.5	45-140			
Surrogate: 13C2-4:2FTS	*33.4*		ng/L	48.6		68.8	60-200			
Surrogate: 13C2-6:2FTS	*32.5*		ng/L	48.6		67.0	60-200			
Surrogate: 13C2-8:2FTS	*33.7*		ng/L	48.6		69.4	50-200			
Surrogate: 13C8-PFOSA	*16.3*		ng/L	24.3		66.9	30-130			
Surrogate: D3-NMeFOSA	*13.6*		ng/L	24.3		56.1	15-130			
Surrogate: D5-NEtFOSA	*15.0*		ng/L	24.3		61.8	10-130			
Surrogate: D3-NMeFOSAA	*31.0*		ng/L	48.6		63.7	45-200			
Surrogate: D5-NEtFOSAA	*31.1*		ng/L	48.6		64.1	10-200			
Surrogate: D7-NMeFOSE	*176*		ng/L	243		72.3	10-150			
Surrogate: D9-NEtFOSE	*190*		ng/L	243		78.2	10-150			
Surrogate: 13C3-HFPO-DA	*62.2*		ng/L	97.2		64.0	25-160			
Batch B378271 - Draft Method 1633										
Blank (B378271-BLK1)				Prepared: 06/25/24 Analyzed: 06/26/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B378271 - Draft Method 1633										
Blank (B378271-BLK1)				Prepared: 06/25/24 Analyzed: 06/26/24						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*81.4*		ng/L	97.7		83.3	10-130			
Surrogate: 13C5-PFPeA	*46.7*		ng/L	48.9		95.6	35-150			
Surrogate: 13C5-PFHxA	*19.9*		ng/L	24.4		81.6	55-150			
Surrogate: 13C4-PFHpA	*20.0*		ng/L	24.4		81.8	55-150			
Surrogate: 13C8-PFOA	*20.5*		ng/L	24.4		83.9	60-140			
Surrogate: 13C9-PFNA	*9.82*		ng/L	12.2		80.4	55-140			
Surrogate: 13C6-PFDA	*9.62*		ng/L	12.2		78.8	50-140			
Surrogate: 13C7-PFUnA	*9.86*		ng/L	12.2		80.7	30-140			
Surrogate: 13C2-PFDoA	*9.37*		ng/L	12.2		76.7	10-150			
Surrogate: 13C2-PFTeDA	*9.36*		ng/L	12.2		76.6	10-130			
Surrogate: 13C3-PFBS	*21.2*		ng/L	24.4		86.9	55-150			
Surrogate: 13C3-PFHxS	*20.3*		ng/L	24.4		83.0	55-150			
Surrogate: 13C8-PFOS	*19.4*		ng/L	24.4		79.5	45-140			
Surrogate: 13C2-4:2FTS	*39.1*		ng/L	48.9		80.0	60-200			
Surrogate: 13C2-6:2FTS	*38.4*		ng/L	48.9		78.6	60-200			
Surrogate: 13C2-8:2FTS	*37.8*		ng/L	48.9		77.4	50-200			
Surrogate: 13C8-PFOSA	*18.1*		ng/L	24.4		74.1	30-130			
Surrogate: D3-NMeFOSA	*15.1*		ng/L	24.4		61.9	15-130			
Surrogate: D5-NEtFOSA	*17.0*		ng/L	24.4		69.4	10-130			
Surrogate: D3-NMeFOSAA	*34.1*		ng/L	48.9		69.9	45-200			
Surrogate: D5-NEtFOSAA	*34.6*		ng/L	48.9		70.8	10-200			
Surrogate: D7-NMeFOSE	*220*		ng/L	244		89.9	10-150			
Surrogate: D9-NEtFOSE	*245*		ng/L	244		100	10-150			
Surrogate: 13C3-HFPO-DA	*74.9*		ng/L	97.7		76.6	25-160			
LCS (B378271-BS1)				Prepared: 06/25/24 Analyzed: 06/26/24						
Perfluorobutanoic acid (PFBA)	94.7	3.9	ng/L	94.5		100	58-148			
Perfluoropentanoic acid (PFPeA)	48.4	2.0	ng/L	47.2		103	54-152			
Perfluorohexanoic acid (PFHxA)	23.4	0.98	ng/L	23.6		98.9	55-152			
Perfluoroheptanoic acid (PFHpA)	23.3	0.98	ng/L	23.6		98.4	54-154			
Perfluorooctanoic acid (PFOA)	22.7	0.98	ng/L	23.6		96.0	52-161			
Perfluorononanoic acid (PFNA)	23.5	0.98	ng/L	23.6		99.6	59-149			
Perfluorodecanoic acid (PFDA)	23.7	0.98	ng/L	23.6		100	52-147			
Perfluoroundecanoic acid (PFUnA)	23.4	0.98	ng/L	23.6		98.9	48-159			
Perfluorododecanoic acid (PFDoA)	23.0	0.98	ng/L	23.6		97.1	64-142			
Perfluorotridecanoic acid (PFTrDA)	23.6	0.98	ng/L	23.6		99.7	49-148			
Perfluorotetradecanoic acid (PFTeDA)	23.6	0.98	ng/L	23.6		99.9	47-161			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B378271 - Draft Method 1633										
LCS (B378271-BS1)				Prepared: 06/25/24 Analyzed: 06/26/24						
Perfluorobutanesulfonic acid (PFBS)	21.0	0.98	ng/L	21.0		100	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.0	0.98	ng/L	22.2		99.2	59-151			
Perfluorohexanesulfonic acid (PFHxS)	20.6	0.98	ng/L	21.6		95.3	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.4	0.98	ng/L	22.5		99.5	55-152			
Perfluorooctanesulfonic acid (PFOS)	20.8	0.98	ng/L	21.9		94.9	58-149			
Perfluorononanesulfonic acid (PFNS)	21.9	0.98	ng/L	22.7		96.2	52-148			
Perfluorodecanesulfonic acid (PFDS)	20.7	0.98	ng/L	22.8		90.6	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.4	0.98	ng/L	22.9		88.9	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.8	3.9	ng/L	88.6		108	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.5	3.9	ng/L	89.8		103	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.3	3.9	ng/L	91.0		99.3	63-152			
Perfluorooctanesulfonamide (PFOSA)	23.2	0.98	ng/L	23.6		98.0	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	23.0	0.98	ng/L	23.6		97.4	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	24.2	0.98	ng/L	23.6		102	65-139			
N-MeFOSAA (NMeFOSAA)	22.1	0.98	ng/L	23.6		93.6	58-144			
N-EtFOSAA (NEtFOSAA)	19.3	0.98	ng/L	23.6		81.7	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	238	9.8	ng/L	236		101	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	236	9.8	ng/L	236		100	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100	3.9	ng/L	94.5		106	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	106	3.9	ng/L	89.2		119	68-146			
9Cl-PF3ONS (F53B Minor)	108	3.9	ng/L	88.6		122	56-156			
11Cl-PF3OUdS (F53B Major)	104	3.9	ng/L	89.2		117	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	224	9.8	ng/L	236		94.7	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1160	49	ng/L	1180		97.8	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1110	49	ng/L	1180		93.6	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	46.5	2.0	ng/L	42.1		111	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	44.2	2.0	ng/L	47.2		93.5	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	41.9	2.0	ng/L	47.2		88.7	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	55.4	2.0	ng/L	47.2		117	48-161			
Surrogate: 13C4-PFBA	*81.2*		ng/L	98.4		82.5	10-130			
Surrogate: 13C5-PFPeA	*47.2*		ng/L	49.2		95.9	35-150			
Surrogate: 13C5-PFHxA	*20.4*		ng/L	24.6		82.9	55-150			
Surrogate: 13C4-PFHpA	*19.8*		ng/L	24.6		80.3	55-150			
Surrogate: 13C8-PFOA	*20.0*		ng/L	24.6		81.3	60-140			
Surrogate: 13C9-PFNA	*10.2*		ng/L	12.3		83.3	55-140			
Surrogate: 13C6-PFDA	*9.66*		ng/L	12.3		78.5	50-140			
Surrogate: 13C7-PFUnA	*9.89*		ng/L	12.3		80.4	30-140			
Surrogate: 13C2-PFDoA	*9.30*		ng/L	12.3		75.5	10-150			
Surrogate: 13C2-PFTeDA	*9.68*		ng/L	12.3		78.7	10-130			
Surrogate: 13C3-PFBS	*21.1*		ng/L	24.6		85.6	55-150			
Surrogate: 13C3-PFHxS	*20.1*		ng/L	24.6		81.7	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B378271 - Draft Method 1633										
LCS (B378271-BS1)				Prepared: 06/25/24 Analyzed: 06/26/24						
Surrogate: 13C8-PFOS	*20.5*		ng/L	24.6		83.4	45-140			
Surrogate: 13C2-4:2FTS	*39.2*		ng/L	49.2		79.7	60-200			
Surrogate: 13C2-6:2FTS	*39.0*		ng/L	49.2		79.2	60-200			
Surrogate: 13C2-8:2FTS	*38.1*		ng/L	49.2		77.3	50-200			
Surrogate: 13C8-PFOSA	*18.3*		ng/L	24.6		74.5	30-130			
Surrogate: D3-NMeFOSA	*17.5*		ng/L	24.6		71.2	15-130			
Surrogate: D5-NEtFOSA	*18.7*		ng/L	24.6		76.0	10-130			
Surrogate: D3-NMeFOSAA	*35.5*		ng/L	49.2		72.2	45-200			
Surrogate: D5-NEtFOSAA	*34.8*		ng/L	49.2		70.6	10-200			
Surrogate: D7-NMeFOSE	*236*		ng/L	246		95.9	10-150			
Surrogate: D9-NEtFOSE	*265*		ng/L	246		108	10-150			
Surrogate: 13C3-HFPO-DA	*71.6*		ng/L	98.4		72.7	25-160			
MRL Check (B378271-MRL1)				Prepared: 06/25/24 Analyzed: 06/26/24						
Perfluorobutanoic acid (PFBA)	8.65	3.9	ng/L	7.84		110	44-157			
Perfluoropentanoic acid (PFPeA)	4.19	2.0	ng/L	3.92		107	57-148			
Perfluorohexanoic acid (PFHxA)	1.99	0.98	ng/L	1.96		102	62-149			
Perfluoroheptanoic acid (PFHpA)	1.88	0.98	ng/L	1.96		96.0	56-150			
Perfluorooctanoic acid (PFOA)	2.21	0.98	ng/L	1.96		113	57-161			
Perfluorononanoic acid (PFNA)	2.01	0.98	ng/L	1.96		103	53-157			
Perfluorodecanoic acid (PFDA)	2.00	0.98	ng/L	1.96		102	43-158			
Perfluoroundecanoic acid (PFUnA)	1.80	0.98	ng/L	1.96		91.9	50-155			
Perfluorododecanoic acid (PFDoA)	1.89	0.98	ng/L	1.96		96.6	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.83	0.98	ng/L	1.96		93.5	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.90	0.98	ng/L	1.96		96.9	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.75	0.98	ng/L	1.74		100	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.95	0.98	ng/L	1.84		106	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.89	0.98	ng/L	1.79		105	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.00	0.98	ng/L	1.87		107	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.87	0.98	ng/L	1.82		103	43-162			
Perfluorononanesulfonic acid (PFNS)	1.89	0.98	ng/L	1.89		100	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.90	0.98	ng/L	1.89		100	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.75	0.98	ng/L	1.90		92.1	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.61	3.9	ng/L	7.35		103	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.95	3.9	ng/L	7.45		107	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.98	3.9	ng/L	7.55		106	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.90	0.98	ng/L	1.96		97.1	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.93	0.98	ng/L	1.96		98.3	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.17	0.98	ng/L	1.96		111	49-156			
N-MeFOSAA (NMeFOSAA)	2.02	0.98	ng/L	1.96		103	32-160			
N-EtFOSAA (NEtFOSAA)	1.65	0.98	ng/L	1.96		84.3	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	20.5	9.8	ng/L	19.6		105	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.0	9.8	ng/L	19.6		107	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.48	3.9	ng/L	7.84		95.4	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.82	3.9	ng/L	7.40		106	61-148			
9Cl-PF3ONS (F53B Minor)	8.06	3.9	ng/L	7.35		110	44-167			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B378271 - Draft Method 1633										
MRL Check (B378271-MRL1)				Prepared: 06/25/24 Analyzed: 06/26/24						
11Cl-PF3OUdS (F53B Major)	7.90	3.9	ng/L	7.40		107	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.0	9.8	ng/L	19.6		86.8	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	85.8	49	ng/L	98.0		87.5	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	83.5	49	ng/L	98.0		85.1	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.25	2.0	ng/L	3.49		64.6	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.30	2.0	ng/L	3.92		58.7	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.13	2.0	ng/L	3.92		54.4	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.15	2.0	ng/L	3.92		80.3	47-160			
Surrogate: 13C4-PFBA	*74.1*		ng/L	98.0		75.5	10-130			
Surrogate: 13C5-PFPeA	*42.4*		ng/L	49.0		86.5	35-150			
Surrogate: 13C5-PFHxA	*18.8*		ng/L	24.5		76.6	55-150			
Surrogate: 13C4-PFHpA	*18.4*		ng/L	24.5		75.2	55-150			
Surrogate: 13C8-PFOA	*18.4*		ng/L	24.5		75.1	60-140			
Surrogate: 13C9-PFNA	*9.13*		ng/L	12.3		74.5	55-140			
Surrogate: 13C6-PFDA	*8.59*		ng/L	12.3		70.1	50-140			
Surrogate: 13C7-PFUnA	*8.85*		ng/L	12.3		72.2	30-140			
Surrogate: 13C2-PFDoA	*8.61*		ng/L	12.3		70.3	10-150			
Surrogate: 13C2-PFTeDA	*8.28*		ng/L	12.3		67.6	10-130			
Surrogate: 13C3-PFBS	*19.9*		ng/L	24.5		81.2	55-150			
Surrogate: 13C3-PFHxS	*18.8*		ng/L	24.5		76.9	55-150			
Surrogate: 13C8-PFOS	*18.3*		ng/L	24.5		74.8	45-140			
Surrogate: 13C2-4:2FTS	*36.8*		ng/L	49.0		75.1	60-200			
Surrogate: 13C2-6:2FTS	*34.9*		ng/L	49.0		71.3	60-200			
Surrogate: 13C2-8:2FTS	*36.2*		ng/L	49.0		73.9	50-200			
Surrogate: 13C8-PFOSA	*16.9*		ng/L	24.5		69.1	30-130			
Surrogate: D3-NMeFOSA	*15.4*		ng/L	24.5		62.7	15-130			
Surrogate: D5-NEtFOSA	*16.5*		ng/L	24.5		67.2	10-130			
Surrogate: D3-NMeFOSAA	*32.8*		ng/L	49.0		66.9	45-200			
Surrogate: D5-NEtFOSAA	*32.6*		ng/L	49.0		66.5	10-200			
Surrogate: D7-NMeFOSE	*208*		ng/L	245		84.9	10-150			
Surrogate: D9-NEtFOSE	*240*		ng/L	245		97.9	10-150			
Surrogate: 13C3-HFPO-DA	*68.5*		ng/L	98.0		69.9	25-160			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B376742 - Draft Method 1633										
Blank (B376742-BLK1)				Prepared & Analyzed: 06/10/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B376742-BS1)				Prepared & Analyzed: 06/10/24						
Total Suspended Solids	198	5.0	mg/L	200		99.0	51.5-130			
Batch B376845 - Draft Method 1633										
Blank (B376845-BLK1)				Prepared & Analyzed: 06/11/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B376845-BS1)				Prepared & Analyzed: 06/11/24						
Total Suspended Solids	195	5.0	mg/L	200		97.5	51.5-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
D-04	Sample extracted at a dilution due to insufficient volume provided.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
PF-23	Qualifier ion ratio <50% of associated calibration. Detection is suspect.
RL-11	Elevated reporting limit due to high concentration of target compounds.
S-29	Extracted Internal Standard is outside of control limits.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 24F0897

ALPHA Job #

Project Information
Project Name: Brewerton- Jack's Cleaners
Project Location: Brewerton, NY
Project # NYSDEC Lab Callout - Site #734112
(Use Project name as Project #) ☒
Project Manager: Stefan Bagnato (Arcadis) Stephanie Fitzgerald (NYSDEC)
ALPHAQuote #: NYSDEC Callout #149566

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: Arcadis
Address: 201 Fuller Rd, #201
Albany, NY 12203
Phone: 518-250-7334
Fax:
Email: Stefan.Bagnato@arcadis.com

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO # NYSDEC Contract # C100913

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
NYSDEC Callout ID# 149566 Contract # C100913
Deliverables: stefan.Bagnato@arcadis.com
Deliverables+invoice: Stephanie Fitzgerald (NYSDEC)

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS-1633	VOCs-8260	Sample Specific Comments	Total Bottles
1	MW-1R	6-4-24	1115	GW	JK	X	X		6
2	MW-2	6-4-24	0915	GW	JK	X	X		6
3	MW-5	6-4-24	0930	GW	BKW	X	X	ms/msd	18
4	MW-7	6-4-24	1445	GW	JK	X	X		6
5	MW-10	6-5-24	1200	GW	BKW	X			6
6	MW-12	6-4-24	1155	GW	BKW	X	X		6
7	MW-13	6-3-24	1450	GW	JK	X	X		6
8	MW-14	6-4-24	1445	GW	BKW	X	X		6
9	IW-18	6-5-24	1005	GW	JK	X	X		6
10	IW-25	6-4-24	1320	GW	JK	X	X		6
					Container Type	P	AV		
					Preservative	A	B		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
~~Jonathan Kline~~	~~06/05/2024~~ JK	[signature] AAC	6/5/24 1930
[signature] Jonathan Kline	06/05/2024 Time: 1415	[signature] AAC	6/5/24 1930
[signature] AAC	6/5/24 1930	[signature]	6/6/24 0140
[signature]	6/6/24 1600	[signature]	6-6-24 1600
[signature] 6-6-24		4.4, 5.4, 5.8	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 24F0897

ALPHA Job #:

Client Information

Client: Arcadis
Address: 201 Fuller Rd, # 201
Albany, NY 12203
Phone: 518-250-7334
Fax:
Email: Stefan.Bagnato@arcadis.com

Project Information

Project Name: Brewerton - Jack's Cleaners
Project Location: Brewerton, NY
Project # NYSDEC Lab Callout - Site #734112
(Use Project name as Project #) ☒
Project Manager: Stefan Bagnato (Arcadis), Stephanie Fitzgerald (NYSDEC)
ALPHAQuote #: NYSDEC Callout ID #149566

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

NYSDEC Callout ID #149566
Contract #C100913
Deliverables: Stefan.Bagnato@arcadis.com
Deliverables + Invoice: Stephanie Fitzgerald (NYSDEC)

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO # NYSDEC Contract # C100913

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration

☐ Done
☐ Lab to do

Preservation
☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS-1633	VOCs-8260	Total Bottle
11	IW-31	6-3-24	1530	GW	BKW	X	X	6
12	DUP-20240604	6-4-24	—	GW	JK	X	X	6
13	Equipment Blank-20240605	6-5-24	1200	W	JK	X		2
14	Trip Blank	5-29-24	—	W	—		X	2

BKW

Container Type	P	AV
Preservative	A	B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jonathan Kline	06/05/2024 Time: 1415	PACE	6/5/24 1930
PACE	6/5/24 1930	PACE	6/6/24 1930
	06/6/24 1000		(6/6)24 0140
	6-6-24		6-6-24 1610

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Table of Contents

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

Log In Back-Sheet

Client Arcadis

Project Brewerton-Tacks- Cleaners

MCP/RCP Required NA

Deliverable Package Requirement NA

Location Brewerton NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time MM 6/6/24

Back-Sheet By / Date / Time AB 6/7/24 7:43

Temperature Method Tempgun # 4

Temp < 6° C Actual Temperature 4.4, 4 5.4, 5.8

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

Notes regarding Samples/COC outside of SOP:

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

	True	False
Received on ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☐
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH (N/A) ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																				
8oz Amb/Clear																					
4oz Amb/Clear																					
2oz Amb/Clear																					
Unpreserved	Ambers 1 Liter																				
HCL																					
Sulfuric																					
Sulfuric	Ambers 250mL																				
Phosphoric																					
HCl																					
Unpreserved	Ambers 100mL																				
Unpreserved	Plastics 1 Liter																				
Sulfuric																					
Unpreserved	Plastics 500mL	2	2	4	2	2	2	2	2	2	2	2	2	2							
Sulfuric																					
Unpreserved	Plastics 250mL																				
Trizma																					
Sulfuric																					
Nitric																					
NaOH																					
Ammonium Acetate																					
NaOH/Zinc																					
Unpreserved	VOA Vials																				
HCl		2	3	9	2		3	3	3	3	3	3	3	2	2						
MeOH														(5)							
D.I. Water																					
BiSulfate																					
Col/Bact	Other / Fill in																				
125 Plastic		1	1	1	1	1	1	1	1	1	1	1	1								

Qualtrax ID: 120836

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June 24, 2024

Stephanie Fitzgerald
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Brewerton, NY
Client Job Number:
Project Number: 734112
Laboratory Work Order Number: 24F2493

Enclosed are results of analyses for samples as received by the laboratory on June 18, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stephanie Fitzgerald

REPORT DATE: 6/24/2024

PURCHASE ORDER NUMBER: 149566

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24F2493

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

PROJECT LOCATION: Brewerton, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-9	24F2493-01	Ground Water		SW-846 8260D	
MW-10BR	24F2493-02	Ground Water		SW-846 8260D	
MW-14BR	24F2493-03	Ground Water		SW-846 8260D	
MW-15BR	24F2493-04	Ground Water		SW-846 8260D	
IW-14	24F2493-05	Ground Water		SW-846 8260D	
IW-17	24F2493-06	Ground Water		SW-846 8260D	
IW-29	24F2493-07	Ground Water		SW-846 8260D	
TRIP BLANK	24F2493-08	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

SW-846 8260D

Qualifications:

V-05

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

24F2493-01[MW-9], 24F2493-02[MW-10BR], 24F2493-03[MW-14BR], 24F2493-04[MW-15BR], 24F2493-05[IW-14], 24F2493-06[IW-17], 24F2493-07[IW-29], 24F2493-08[TRIP BLANK], B377765-BLK1, B377765-BS1, B377765-BSD1, S106283-CCV1

V-36

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

Analyte & Samples(s) Qualified:

Methyl Acetate

B377765-BS1, B377765-BSD1, S106283-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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A Pace Analytical® Laboratory

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-9 | Sampled: 6/17/2024 09:40

Sample ID: 24F2493-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,1-Dichloroethylene	0.26	1.0	0.18	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 16:38	EEH
cis-1,2-Dichloroethylene	60	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
trans-1,2-Dichloroethylene	0.95	1.0	0.16	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-9 | Sampled: 6/17/2024 09:40

Sample ID: 24F2493-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Tetrachloroethylene	0.41	1.0	0.17	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Trichloroethylene	20	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Vinyl Chloride	29	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 16:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.2	70-130		6/20/24 16:38
Toluene-d8	94.9	70-130		6/20/24 16:38
4-Bromofluorobenzene	106	70-130		6/20/24 16:38

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-10BR | Sampled: 6/17/2024 09:50

Sample ID: 24F2493-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.4	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-10BR | Sampled: 6/17/2024 09:50

Sample ID: 24F2493-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Toluene	0.23	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.7	70-130		6/20/24 17:04
Toluene-d8	95.3	70-130		6/20/24 17:04
4-Bromofluorobenzene	106	70-130		6/20/24 17:04

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-14BR | Sampled: 6/17/2024 09:55

Sample ID: 24F2493-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.5	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Benzene	0.15	1.0	0.14	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
cis-1,2-Dichloroethylene	0.67	1.0	0.20	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-14BR | Sampled: 6/17/2024 09:55

Sample ID: 24F2493-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Toluene	0.17	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Trichloroethylene	0.36	1.0	0.17	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.2	70-130		6/20/24 17:30
Toluene-d8	95.8	70-130		6/20/24 17:30
4-Bromofluorobenzene	109	70-130		6/20/24 17:30

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-15BR | Sampled: 6/17/2024 10:20

Sample ID: 24F2493-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.8	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Benzene	0.71	1.0	0.14	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
cis-1,2-Dichloroethylene	1.6	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Methyl Cyclohexane	0.14	1.0	0.13	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Methylene Chloride	0.21	5.0	0.19	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: MW-15BR | Sampled: 6/17/2024 10:20

Sample ID: 24F2493-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Toluene	0.98	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Vinyl Chloride	0.34	2.0	0.19	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 17:55	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 17:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.4	70-130		6/20/24 17:55
Toluene-d8	95.8	70-130		6/20/24 17:55
4-Bromofluorobenzene	107	70-130		6/20/24 17:55

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-14 | Sampled: 6/17/2024 10:10

Sample ID: 24F2493-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.2	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
cis-1,2-Dichloroethylene	2.7	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-14 | Sampled: 6/17/2024 10:10

Sample ID: 24F2493-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Toluene	0.27	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Trichloroethylene	1.1	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Vinyl Chloride	0.73	2.0	0.19	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:21	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.1	70-130		6/20/24 18:21
Toluene-d8	97.2	70-130		6/20/24 18:21
4-Bromofluorobenzene	108	70-130		6/20/24 18:21

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-17 | Sampled: 6/17/2024 10:00

Sample ID: 24F2493-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.2	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Benzene	0.78	1.0	0.14	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,1-Dichloroethane	0.19	1.0	0.15	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
cis-1,2-Dichloroethylene	1.6	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Methylene Chloride	0.22	5.0	0.19	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-17 | Sampled: 6/17/2024 10:00

Sample ID: 24F2493-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Toluene	0.41	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Vinyl Chloride	0.48	2.0	0.19	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 18:47	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 18:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.8	70-130		6/20/24 18:47
Toluene-d8	94.8	70-130		6/20/24 18:47
4-Bromofluorobenzene	108	70-130		6/20/24 18:47

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-29 | Sampled: 6/17/2024 09:20

Sample ID: 24F2493-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.8	50	2.0	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
cis-1,2-Dichloroethylene	0.44	1.0	0.20	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 19:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: IW-29 | Sampled: 6/17/2024 09:20

Sample ID: 24F2493-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Toluene	0.18	1.0	0.11	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
m+p Xylene	0.26	2.0	0.25	µg/L	1	J	SW-846 8260D	6/19/24	6/20/24 19:12	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 19:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.2	70-130		6/20/24 19:12
Toluene-d8	96.0	70-130		6/20/24 19:12
4-Bromofluorobenzene	107	70-130		6/20/24 19:12

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: TRIP BLANK | Sampled: 6/17/2024 00:00

Sample ID: 24F2493-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Carbon Disulfide	ND	5.0	1.5	µg/L	1	V-05	SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Naphthalene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 24F2493

Date Received: 6/18/2024

Field Sample #: TRIP BLANK | Sampled: 6/17/2024 00:00

Sample ID: 24F2493-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/19/24	6/20/24 15:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.2	70-130		6/20/24 15:46
Toluene-d8	95.3	70-130		6/20/24 15:46
4-Bromofluorobenzene	106	70-130		6/20/24 15:46

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F2493-01 [MW-9]	B377765	5	5.00	06/19/24
24F2493-02 [MW-10BR]	B377765	5	5.00	06/19/24
24F2493-03 [MW-14BR]	B377765	5	5.00	06/19/24
24F2493-04 [MW-15BR]	B377765	5	5.00	06/19/24
24F2493-05 [IW-14]	B377765	5	5.00	06/19/24
24F2493-06 [IW-17]	B377765	5	5.00	06/19/24
24F2493-07 [IW-29]	B377765	5	5.00	06/19/24
24F2493-08 [TRIP BLANK]	B377765	5	5.00	06/19/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377765 - SW-846 5030B										
Blank (B377765-BLK1)				Prepared: 06/19/24 Analyzed: 06/20/24						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							V-05
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B377765 - SW-846 5030B											
Blank (B377765-BLK1)				Prepared: 06/19/24 Analyzed: 06/20/24							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		94.8	70-130				
Surrogate: Toluene-d8	*23.8*		µg/L	25.0		95.2	70-130				
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107	70-130				
LCS (B377765-BS1)				Prepared: 06/19/24 Analyzed: 06/20/24							
Acetone	93.8	50	µg/L	100		93.8	70-160				†
Benzene	9.63	1.0	µg/L	10.0		96.3	70-130				
Bromochloromethane	9.40	1.0	µg/L	10.0		94.0	70-130				
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130				
Bromoform	11.1	1.0	µg/L	10.0		111	70-130				
Bromomethane	8.94	2.0	µg/L	10.0		89.4	40-160				†
2-Butanone (MEK)	94.2	20	µg/L	100		94.2	40-160				†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130				
tert-Butylbenzene	9.95	1.0	µg/L	10.0		99.5	70-130				
Carbon Disulfide	70.5	5.0	µg/L	100		70.5	70-130			V-05	
Carbon Tetrachloride	11.4	5.0	µg/L	10.0		114	70-130				
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130				
Chloroethane	8.59	2.0	µg/L	10.0		85.9	70-130				
Chloroform	10.2	2.0	µg/L	10.0		102	70-130				
Chloromethane	9.46	2.0	µg/L	10.0		94.6	40-160				†
Cyclohexane	8.59	5.0	µg/L	10.0		85.9	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.58	5.0	µg/L	10.0		95.8	70-130				
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130				
1,2-Dichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130				
1,3-Dichlorobenzene	9.36	1.0	µg/L	10.0		93.6	70-130				
1,4-Dichlorobenzene	9.19	1.0	µg/L	10.0		91.9	70-130				
Dichlorodifluoromethane (Freon 12)	10.6	2.0	µg/L	10.0		106	40-160				†
1,1-Dichloroethane	9.03	1.0	µg/L	10.0		90.3	70-130				
1,2-Dichloroethane	8.62	1.0	µg/L	10.0		86.2	70-130				
1,1-Dichloroethylene	9.38	1.0	µg/L	10.0		93.8	70-130				
cis-1,2-Dichloroethylene	8.75	1.0	µg/L	10.0		87.5	70-130				
trans-1,2-Dichloroethylene	8.61	1.0	µg/L	10.0		86.1	70-130				
1,2-Dichloropropane	8.97	1.0	µg/L	10.0		89.7	70-130				
cis-1,3-Dichloropropene	9.87	0.50	µg/L	10.0		98.7	70-130				
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130				
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160				†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130				
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130				
Methyl Acetate	10.1	1.0	µg/L	10.0		101	70-130			V-36	
Methyl tert-Butyl Ether (MTBE)	9.77	1.0	µg/L	10.0		97.7	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B377765 - SW-846 5030B										
LCS (B377765-BS1)				Prepared: 06/19/24 Analyzed: 06/20/24						
Methyl Cyclohexane	10.0	1.0	µg/L	10.0		100	70-130			
Methylene Chloride	9.35	5.0	µg/L	10.0		93.5	70-130			
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160			†
Naphthalene	9.16	2.0	µg/L	10.0		91.6	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	9.94	1.0	µg/L	10.0		99.4	70-130			
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Toluene	9.75	1.0	µg/L	10.0		97.5	70-130			
1,2,3-Trichlorobenzene	9.35	5.0	µg/L	10.0		93.5	70-130			
1,2,4-Trichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	9.97	1.0	µg/L	10.0		99.7	70-130			
Trichloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130			
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.0		114	70-130			
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	9.70	1.0	µg/L	10.0		97.0	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	8.24	2.0	µg/L	10.0		82.4	40-160			†
m+p Xylene	20.5	2.0	µg/L	20.0		102	70-130			
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130			
Xylenes (total)	30.8	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		94.9	70-130			
Surrogate: Toluene-d8	*23.8*		µg/L	25.0		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107	70-130			
LCS Dup (B377765-BSD1)				Prepared: 06/19/24 Analyzed: 06/20/24						
Acetone	97.3	50	µg/L	100		97.3	70-160	3.66	25	†
Benzene	9.14	1.0	µg/L	10.0		91.4	70-130	5.22	25	
Bromochloromethane	9.08	1.0	µg/L	10.0		90.8	70-130	3.46	25	
Bromodichloromethane	9.92	0.50	µg/L	10.0		99.2	70-130	2.09	25	
Bromoform	10.8	1.0	µg/L	10.0		108	70-130	2.65	25	
Bromomethane	8.86	2.0	µg/L	10.0		88.6	40-160	0.899	25	†
2-Butanone (MEK)	97.6	20	µg/L	100		97.6	40-160	3.46	25	†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.487	25	
sec-Butylbenzene	9.91	1.0	µg/L	10.0		99.1	70-130	1.30	25	
tert-Butylbenzene	9.62	1.0	µg/L	10.0		96.2	70-130	3.37	25	
Carbon Disulfide	71.8	5.0	µg/L	100		71.8	70-130	1.88	25	V-05
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107	70-130	5.61	25	
Chlorobenzene	9.92	1.0	µg/L	10.0		99.2	70-130	1.80	25	
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130	2.97	25	
Chloroethane	8.06	2.0	µg/L	10.0		80.6	70-130	6.37	25	
Chloroform	9.64	2.0	µg/L	10.0		96.4	70-130	5.15	25	
Chloromethane	9.19	2.0	µg/L	10.0		91.9	40-160	2.90	25	†
Cyclohexane	8.22	5.0	µg/L	10.0		82.2	70-130	4.40	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.46	5.0	µg/L	10.0		94.6	70-130	1.26	25	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	1.33	25	
1,2-Dichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130	3.88	25	
1,3-Dichlorobenzene	9.25	1.0	µg/L	10.0		92.5	70-130	1.18	25	
1,4-Dichlorobenzene	9.09	1.0	µg/L	10.0		90.9	70-130	1.09	25	
Dichlorodifluoromethane (Freon 12)	10.1	2.0	µg/L	10.0		101	40-160	5.42	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B377765 - SW-846 5030B											
LCS Dup (B377765-BSD1)				Prepared: 06/19/24 Analyzed: 06/20/24							
1,1-Dichloroethane	8.83	1.0	µg/L	10.0		88.3	70-130	2.24	25		
1,2-Dichloroethane	8.48	1.0	µg/L	10.0		84.8	70-130	1.64	25		
1,1-Dichloroethylene	8.93	1.0	µg/L	10.0		89.3	70-130	4.92	25		
cis-1,2-Dichloroethylene	8.54	1.0	µg/L	10.0		85.4	70-130	2.43	25		
trans-1,2-Dichloroethylene	8.42	1.0	µg/L	10.0		84.2	70-130	2.23	25		
1,2-Dichloropropane	8.78	1.0	µg/L	10.0		87.8	70-130	2.14	25		
cis-1,3-Dichloropropene	9.84	0.50	µg/L	10.0		98.4	70-130	0.304	25		
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	1.09	25		
Ethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	2.29	25		
2-Hexanone (MBK)	109	10	µg/L	100		109	70-160	4.40	25		†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130	0.577	25		
p-Isopropyltoluene (p-Cymene)	10.0	1.0	µg/L	10.0		100	70-130	2.56	25		
Methyl Acetate	10.2	1.0	µg/L	10.0		102	70-130	0.789	25	V-36	
Methyl tert-Butyl Ether (MTBE)	9.42	1.0	µg/L	10.0		94.2	70-130	3.65	25		
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130	0.598	25		
Methylene Chloride	9.06	5.0	µg/L	10.0		90.6	70-130	3.15	25		
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160	3.15	25		†
Naphthalene	8.91	2.0	µg/L	10.0		89.1	40-130	2.77	25		†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	0.576	25		
Styrene	9.90	1.0	µg/L	10.0		99.0	70-130	0.403	25		
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	0.494	25		
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130	2.46	25		
Toluene	9.39	1.0	µg/L	10.0		93.9	70-130	3.76	25		
1,2,3-Trichlorobenzene	9.13	5.0	µg/L	10.0		91.3	70-130	2.38	25		
1,2,4-Trichlorobenzene	9.89	1.0	µg/L	10.0		98.9	70-130	0.202	25		
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	2.02	25		
1,1,2-Trichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130	2.33	25		
Trichloroethylene	9.62	1.0	µg/L	10.0		96.2	70-130	1.03	25		
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130	6.73	25		
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130	0.694	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.84	1.0	µg/L	10.0		98.4	70-130	5.44	25		
1,2,4-Trimethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	2.19	25		
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.464	25		
Vinyl Chloride	7.54	2.0	µg/L	10.0		75.4	40-160	8.87	25		†
m+p Xylene	20.2	2.0	µg/L	20.0		101	70-130	1.57	25		
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130	2.94	25		
Xylenes (total)	30.2	1.0	µg/L	30.0		101	0-200	2.03			
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.4	70-130				
Surrogate: Toluene-d8	*23.9*		µg/L	25.0		95.7	70-130				
Surrogate: 4-Bromofluorobenzene	*27.3*		µg/L	25.0		109	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024