Stephanie Fitzgerald
New York State Department of Environmental Conservation
Division of Environmental Remediation
615 Erie Blvd. W.
Syracuse NY 13204-2400

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201 Fuller Road
Suite 201
Albany
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Tel 518 250 7300
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Subject:
2023 Q3 Monitoring Report
Brewerton Jack's Cleaners
NYSDEC Site No. 734112
Contract No. D009804-26

Date:
November 28, 2023

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 September 2023 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. Current monitoring efforts aim to evaluate the effectiveness of the enhanced bioremediation remedy.

Analytical Results

Groundwater Sampling

Between September 11 and September 26, 2023, Arcadis conducted groundwater sampling at all 29 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.

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.** Duplicate samples, DUP-091323, DUP-092723-01, and DUP-092723-02 were collected at MW-2, MW-17, and MW-17BR, respectively. An equipment blank, EB-091323, 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. Samples from wells MW-2, MW-5, MW-8, IW-18, IW-25, and IW-31 were also analyzed for 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 2023 Q3 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**, acetone, cis-1,2-dichlorothene (cDCE), vinyl chloride (VC), trichloroethene (TCE), PCE, and trans-1,2-dichloroethene (tDCE) were the most frequently detected compounds in groundwater samples collected during the 2023 Q3 event. Acetone is known to be a

common laboratory contaminant and is not considered a contaminant of concern for this site. 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 – 16 micrograms per liter (µg/L)
	MW-1R	cDCE – 21 J µg/L, VC – 11 J µg/L
Immediately Down-gradient of Source Area	MW-09	PCE – 14 µg/L, TCE – 100 µg/L, cDCE – 180 µg/L, VC – 39 µg/L
	MW-07	cDCE – 62 µg/L, VC – 210 µg/L
	MW-13	PCE – 550 D µg/L, TCE – 280 D µg/L, cDCE – 370 D µg/L, tDCE – 5.6 D µg/L, VC – 43 D µg/L
	IW-25	TCE – 8.2 D µg/L, cDCE – 950 µg/L, tDCE – 8 D µg/L, VC – 170 µg/L
Down-gradient plume area		No exceedances

As shown in **Table 3,** the groundwater sample collected from MW-2, 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 sample collected from 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 and MW-8 did not contain PFOS or PFOA at concentrations greater than the applicable MCL. PFOS was 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 2nd Quarter of 2023, the sampling results from the 3rd Quarter of 2023 show the following changes:

- Increased concentrations of PCE and/or TCE are noted at MW-02 and IW-25, though minor in magnitude;
- Decreased concentrations of PCE and/or TCE are noted at MW-1R, MW-09 and MW-13;
- Increased concentrations of breakdown products are noted at MW-07, MW-09, IW-17, and IW-25. Most increases were minor in magnitude, with the exception of cDCE at IW-25;

- 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

Relative to the 2nd Quarter 2023 sampling, the sampling results from the 3rd Quarter of 2023 show the following changes:

- Increased concentrations of PFOS and PFOA are noted at MW-2 and MW-5, though minor in magnitude, and the concentrations at MW-5 remain below the MCLs.

Note: MW-1R was not sampled in the 3rd Quarter of 2023 due to presumed continued elevated PFAS concentrations. MW-8, IW-18, IW-25, and IW-31 were sampled for PFAS for the first time in the 3rd Quarter of 2023.

With both PFOS and PFOA being detected at concentrations greater than the NYSDEC MCL at MW-1R, MW-2, and IW-31, but not at the up-gradient MW-5, 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, consistent with residual CVOC exceedances. Nonetheless, with PFOS and PFOA being detected at concentrations greater than the NYSDEC MCL at IW-25 and IW-18, additional monitoring of select perimeter wells may be warranted to evaluate the extent of impacts.

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.

As summarized on **Table 4**, the following recommendations are offered for the 2023 Q4 sampling event:

- Continue to sample wells with PDBs if wells are only analyzed for VOCs.
- To further evaluate the presence and extent of PFAS at the site and its potential source, it is recommended that monitoring wells MW-10, MW-11, and MW-14 be sampled using low-flow methods for 40 compound target analyte list PFAS.

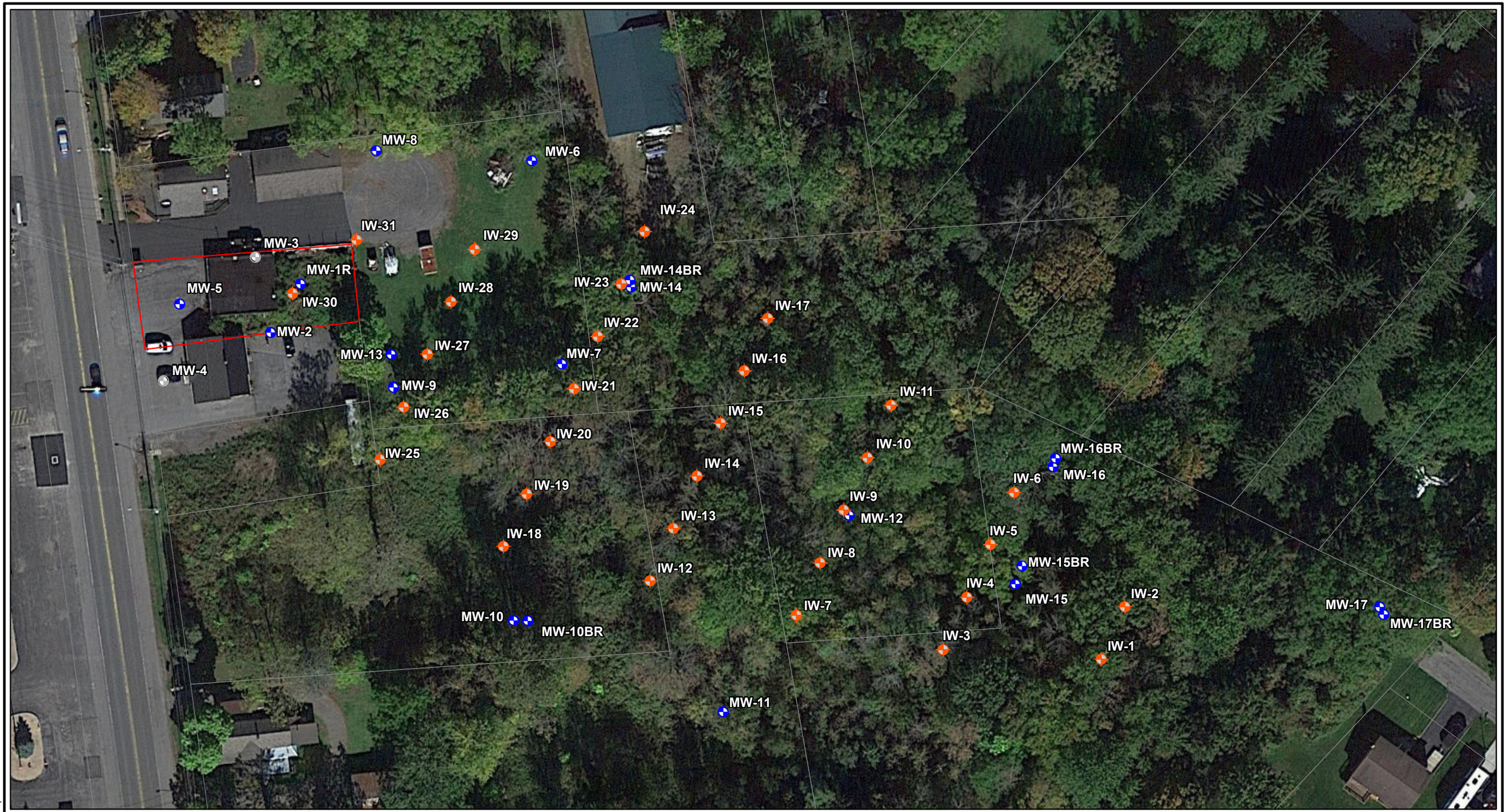
If you have any questions concerning this report, please call me at (518) 250-7334.

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 – Q3 2023
Figure 5 – Summary of CVOCs in Bedrock Groundwater – Q3 2023
Figure 6 – Summary of PFAS in Groundwater – Q3 2023
Table 1 – Summary of Groundwater Elevations
Table 2 – Summary of Sampled Wells
Table 3 – Summary of Groundwater Sampling Results
Table 4 – Proposed 2023 Q4 Sampling
Appendix A – Field Sampling Logs
Appendix B – Laboratory Analytical Reports
Appendix C – Data Usability Summary Reports



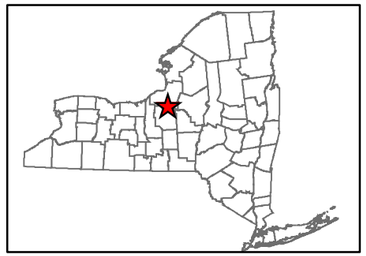
0 200 400 Feet

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

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FIGURE
1

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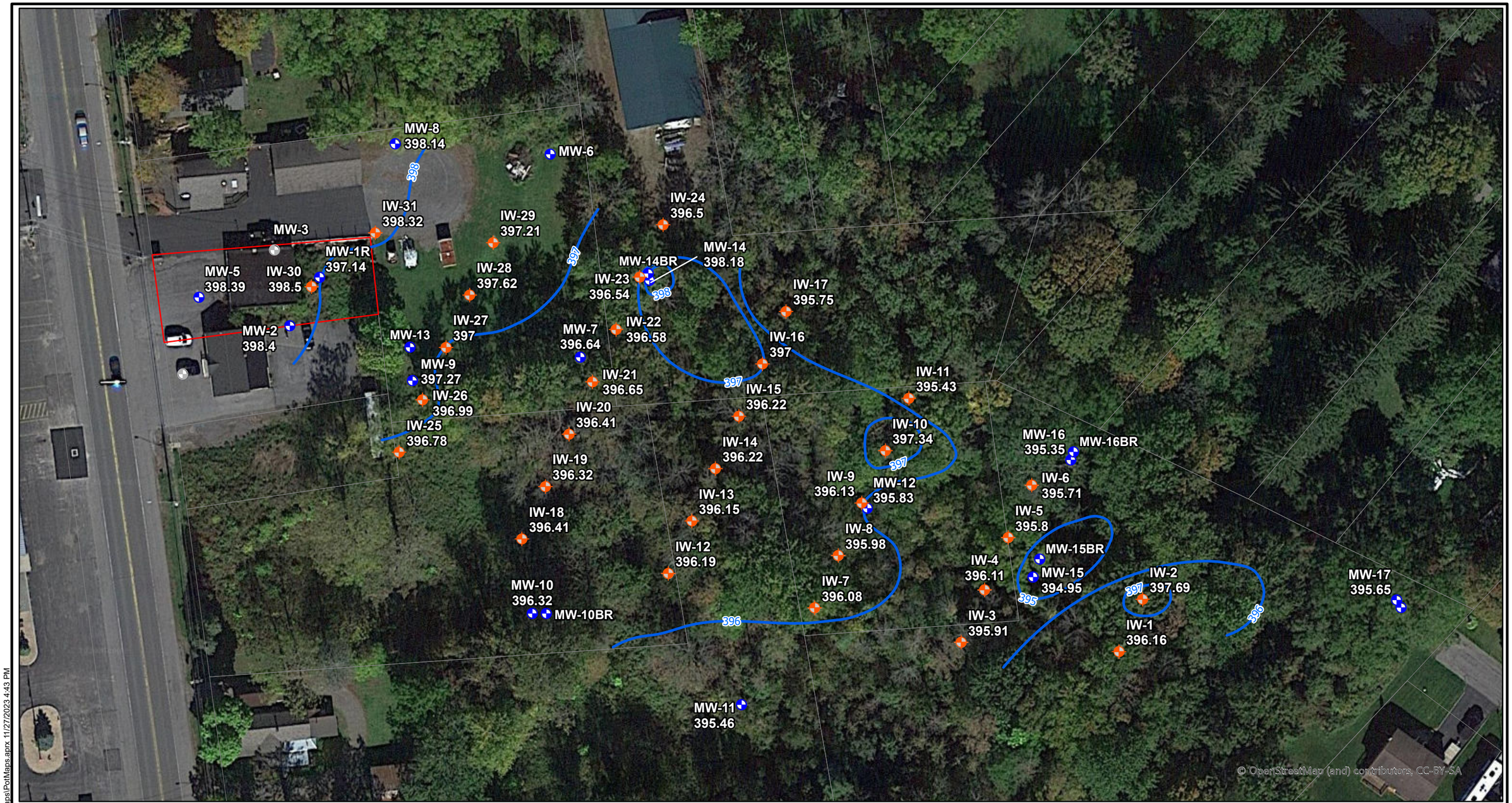

0 200 400 Feet

GRAPHIC SCALE

Legend

Locations

- 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)

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

OVERBURDEN POTENTIOMETRIC CONTOUR MAP SEPTEMBER 11, 2023

ARCADIS

FIGURE 2

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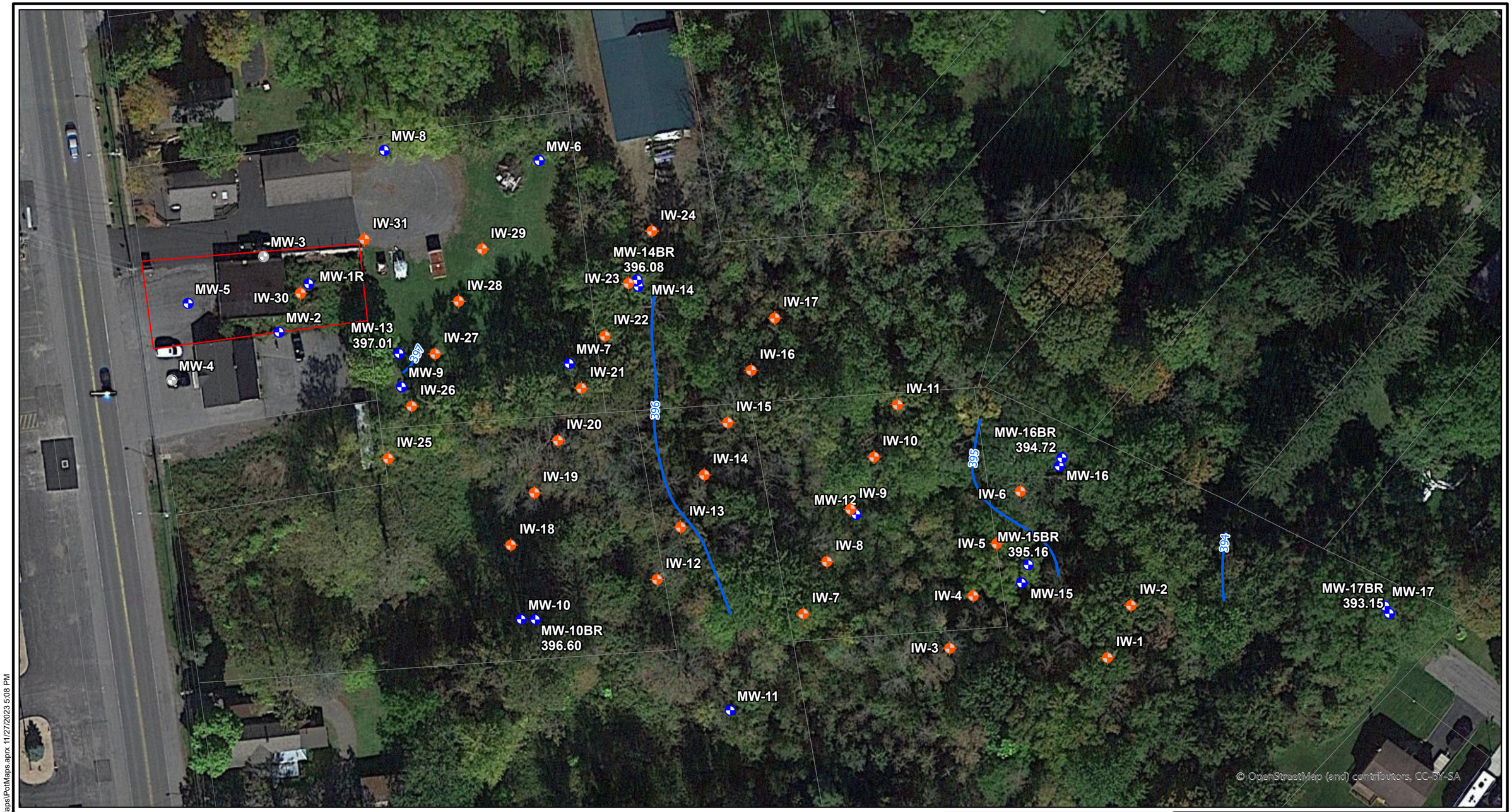


0 200 400 Feet

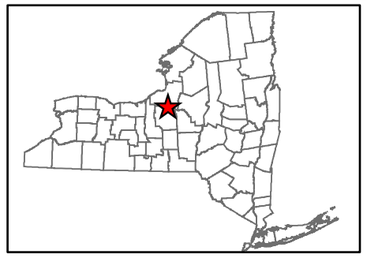
GRAPHIC SCALE

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 SEPTEMBER 11, 2023

ARCADIS

FIGURE 3

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: Giroux
Project 30135043.02
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MW-7						
Date	7/26/2019	12/11/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023
PCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U
TCE (ug/L)	ND	ND	0.19 U	0.18 J	0.35 J	0.24 J
cDCE (ug/L)	5.3	130	5.9	17	19 J	62
tDCE (ug/L)	ND	1.3	0.17 U	1 U	1 U	0.45 J
VC (ug/L)	3.9	170	16	100 J	53	210

MW-1R						
Date	7/26/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/27/2023
PCE (ug/L)	0.4	90	200	0.96 J	12 [13]	0.79 J
TCE (ug/L)	0.7	44	71	4.8	8.6 [8.3]	4.1
cDCE (ug/L)	47	260	150	160	34 [31]	21 J
tDCE (ug/L)	ND	2.2	1.4 J	1.7	0.63 J [0.59 J]	1 U
VC (ug/L)	35	89	32	68 J	13 [13]	11 J

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

MW-2						
Date	7/23/2019	12/10/2019	12/1/2022	3/21/2023	6/7/2023	9/13/2023
PCE (ug/L)	37	30	15	11	12	16
TCE (ug/L)	7.2	4.1	1.8	0.90 J	1.1	1.6
cDCE (ug/L)	6.2	2.4	0.63 J	0.66 J	1.1	0.97 J
tDCE (ug/L)	ND	ND	0.17 U	1 U	1 U	1 U
VC (ug/L)	ND	ND	0.21 U	2 UJ	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
PCE (ug/L)	1.7	1.7	460	74	55	14
TCE (ug/L)	26	1.6	370	140	130	100
cDCE (ug/L)	200	47	840	250	130 J	180
tDCE (ug/L)	3.6	1.6	9.1 J	3.2	2.8 J	2.3
VC (ug/L)	54	29	110	51 J	34	39

IW-25						
Date	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/13/2023
PCE (ug/L)	ND	ND	3.7 U [1.9 U]	1 U	1 U	10 U
TCE (ug/L)	ND	ND	31 [30]	1.8	1 U	8.2 J
cDCE (ug/L)	5.2	1	1400 [1300]	120	1.2 J	950
tDCE (ug/L)	3.6	0.9	13 J [12]	1.5	0.28 J	8.0 J
VC (ug/L)	5	ND	450 [420]	60 J	2 U	170

MW-6, MW-8, IW-31, IW-24, MW-3, IW-29, MW-14BR, IW-30, MW-1R, IW-23, MW-14, IW-28, MW-5, IW-17, IW-22, MW-2, MW-13, IW-27, MW-7, IW-16, MW-4, MW-9, IW-21, IW-26, IW-15, IW-11, IW-20, IW-10, IW-25, MW-16BR, IW-14, MW-16, IW-19, IW-9, IW-6, MW-12, IW-18, IW-13, IW-5, IW-8, MW-15BR, IW-4, MW-15, IW-12, IW-2, MW-10, MW-10BR, IW-7, MW-17, MW-17BR, IW-3, IW-1, MW-11

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0 200 400 Feet

GRAPHIC SCALE

Legend

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

NOTES:
ug/l - micrograms 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 Q3 2023.
Green halo denotes no NYSDEC MCL exceedances in Q3;
Red halo denotes at least one MCL exceedance in Q3.

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 Q3 2023

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FIGURE 4

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: LJohns
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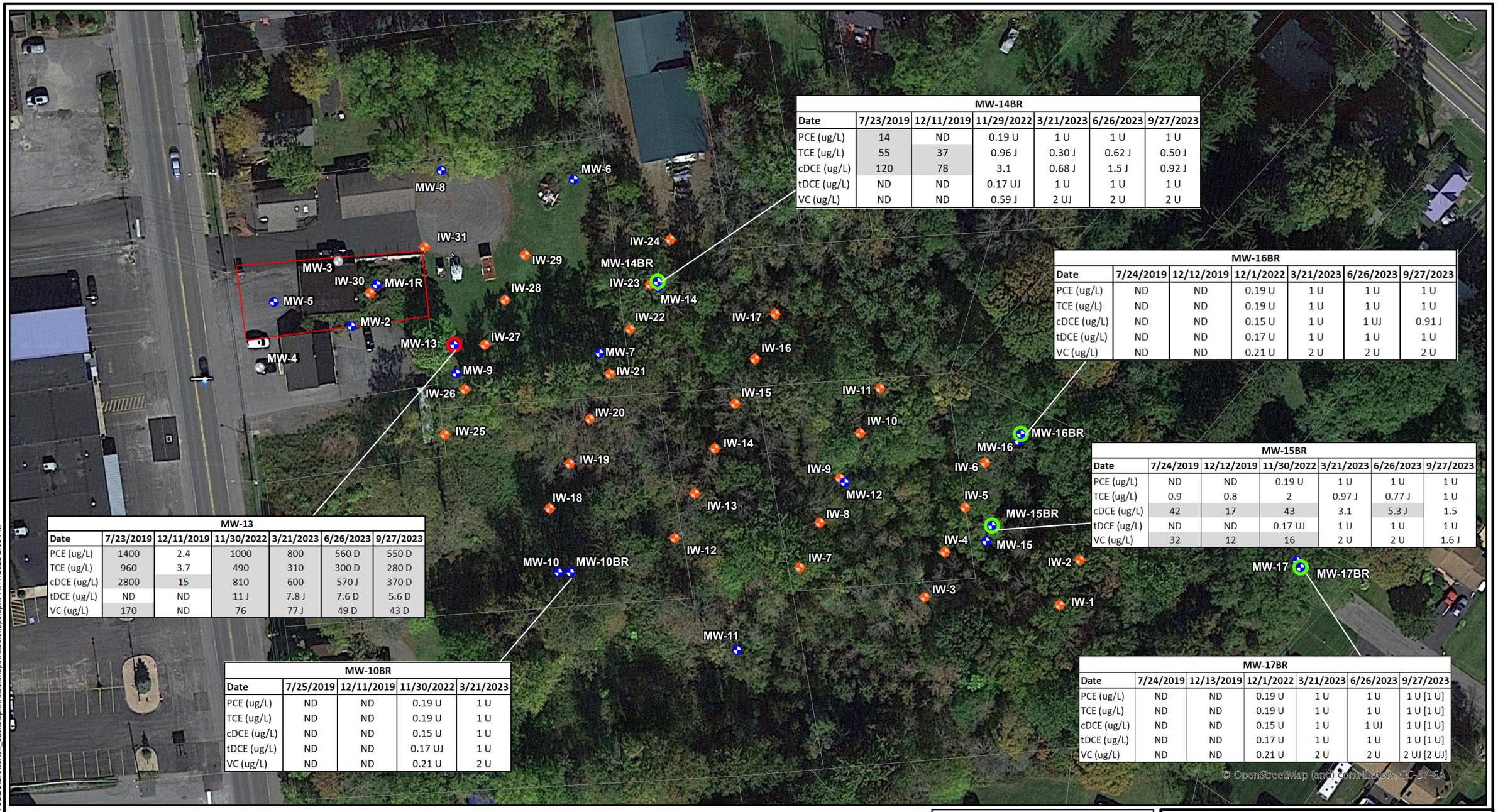

MW-14BR						
Date	7/23/2019	12/11/2019	11/29/2022	3/21/2023	6/26/2023	9/27/2023
PCE (ug/L)	14	ND	0.19 U	1 U	1 U	1 U
TCE (ug/L)	55	37	0.96 J	0.30 J	0.62 J	0.50 J
cDCE (ug/L)	120	78	3.1	0.68 J	1.5 J	0.92 J
tDCE (ug/L)	ND	ND	0.17 UJ	1 U	1 U	1 U
VC (ug/L)	ND	ND	0.59 J	2 UJ	2 U	2 U

MW-16BR						
Date	7/24/2019	12/12/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023
PCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U
TCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U
cDCE (ug/L)	ND	ND	0.15 U	1 U	1 UJ	0.91 J
tDCE (ug/L)	ND	ND	0.17 U	1 U	1 U	1 U
VC (ug/L)	ND	ND	0.21 U	2 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
PCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U
TCE (ug/L)	0.9	0.8	2	0.97 J	0.77 J	1 U
cDCE (ug/L)	42	17	43	3.1	5.3 J	1.5
tDCE (ug/L)	ND	ND	0.17 UJ	1 U	1 U	1 U
VC (ug/L)	32	12	16	2 U	2 U	1.6 J

MW-13						
Date	7/23/2019	12/11/2019	11/30/2022	3/21/2023	6/26/2023	9/27/2023
PCE (ug/L)	1400	2.4	1000	800	560 D	550 D
TCE (ug/L)	960	3.7	490	310	300 D	280 D
cDCE (ug/L)	2800	15	810	600	570 J	370 D
tDCE (ug/L)	ND	ND	11 J	7.8 J	7.6 D	5.6 D
VC (ug/L)	170	ND	76	77 J	49 D	43 D

MW-10BR				
Date	7/25/2019	12/11/2019	11/30/2022	3/21/2023
PCE (ug/L)	ND	ND	0.19 U	1 U
TCE (ug/L)	ND	ND	0.19 U	1 U
cDCE (ug/L)	ND	ND	0.15 U	1 U
tDCE (ug/L)	ND	ND	0.17 UJ	1 U
VC (ug/L)	ND	ND	0.21 U	2 U

MW-17BR						
Date	7/24/2019	12/13/2019	12/1/2022	3/21/2023	6/26/2023	9/27/2023
PCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U [1 U]
TCE (ug/L)	ND	ND	0.19 U	1 U	1 U	1 U [1 U]
cDCE (ug/L)	ND	ND	0.15 U	1 U	1 UJ	1 U [1 U]
tDCE (ug/L)	ND	ND	0.17 U	1 U	1 U	1 U [1 U]
VC (ug/L)	ND	ND	0.21 U	2 U	2 U	2 UJ [2 UJ]

0 200 400 Feet

GRAPHIC SCALE

Legend

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- Tax Parcel

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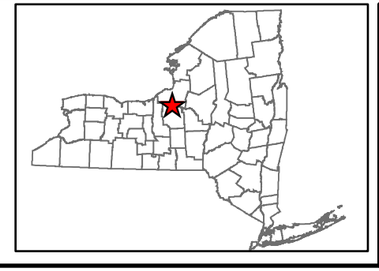

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BREWERTON JACK'S CLEANERS
9628 Brewerton Road, Brewerton, New York
Site No. 734112

SUMMARY OF CVOCS IN BEDROCK GROUNDWATER Q3 2023

ARCADIS

FIGURE 5

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Project 30135043.02
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IW-31	
Date	9/13/2023
PFOS (ng/L)	53
PFOA (ng/L)	10

MW-8	
Date	9/13/2023
PFOS (ng/L)	1.6
PFOA (ng/L)	0.83 J

MW-1R			
Date	7/26/2019	12/1/2022	6/7/2023
PFOS (ng/L)	77	415	520 D [610 D]
PFOA (ng/L)	39	49.9	65 [67]

MW-5		
Date	6/7/2023	9/13/2023
PFOS (ng/L)	0.92 U	1.7
PFOA (ng/L)	3.8 J+	6.7

MW-12		
Date	7/26/2019	12/1/2022
PFOS (ng/L)	2.1	ND [ND]
PFOA (ng/L)	8.1	0.798 J [0.806 J]

MW-2		
Date	6/7/2023	9/13/2023
PFOS (ng/L)	32 J+	35 [36]
PFOA (ng/L)	19 J+	22 [23]

IW-25	
Date	9/13/2023
PFOS (ng/L)	28
PFOA (ng/L)	13

MW-7			
Date	7/26/2019	12/1/2022	6/7/2023
PFOS (ng/L)	5.6	42.1	31 J+
PFOA (ng/L)	8.7	9.99	8.7 J+

IW-18	
Date	9/13/2023
PFOS (ng/L)	14
PFOA (ng/L)	11

MW-8, MW-6, IW-31, IW-24, MW-3, IW-29, MW-14BR, IW-30, MW-1R, IW-23, IW-28, MW-14, MW-5, IW-22, IW-17, MW-2, IW-27, MW-13, IW-16, MW-4, MW-7, IW-21, MW-9, IW-26, IW-15, IW-11, IW-20, IW-10, IW-25, MW-16BR, IW-14, MW-16, IW-19, IW-9, IW-6, MW-12, IW-18, IW-13, IW-5, IW-8, MW-15BR, IW-4, MW-15, IW-12, IW-7, IW-2, MW-17, MW-17BR, MW-10, MW-10BR, IW-3, IW-1, MW-11

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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 Q3 2023.
Green halo denotes no NYSDEC MCL exceedances in Q3;
Red halo denotes at least one MCL exceedance in Q3.

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 Q3 2023

ARCADIS

FIGURE 6

City: Clifton Park Div/Group: ENV Created By: D.Giroux Last Saved By: LJohns
Project 30135043.02
\\arcadis-us.com\app\GIS\Processing_ENV\NYSDEC\Brewerton_Jacks\aprx\HitboxMaps\HitboxMaps.aprx 11/17/2023 2:00 PM

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	1179423.871	938346.0339	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	1179387.253	938578.4808	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	1179517.282	938465.6356	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	1179231.273	938549.1697	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	1179175.673	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	1179295.195	938753.4038	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 2
Summary of 2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

Well ID	VOCs Method 8260	PFAS 40 compound Method 1633
MW-1R	X[(a)]	
MW-2	X	X
MW-5	X	X
MW-7	X[(a)]	
MW-8		X
MW-9	X[(a)]	
MW-10		
MW-10BR		
MW-11		
MW-12	X[(a)]	
MW-13	X[(a)]	
MW-14	X[(a)]	
MW-14BR	X[(a)]	
MW-15	X[(a)]	
MW-15BR	X[(a)]	
MW-16	X[(a)]	
MW-16BR	X[(a)]	
MW-17	X[(a)]	
MW-17BR	X[(a)]	
IW-1	X[(a)]	
IW-2	X[(a)]	
IW-3	X[(a)]	
IW-4		
IW-5		
IW-6		
IW-7	X[(a)]	
IW-8		
IW-9		
IW-10		
IW-11	X[(a)]	
IW-12		
IW-13		
IW-14	X[(a)]	
IW-15		
IW-16		
IW-17	X[(a)]	
IW-18		X
IW-19	X[(a)]	
IW-20		
IW-21		
IW-22		
IW-23		
IW-24	X[(a)]	
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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	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-2 7/24/2019	IW-2 12/12/2019	IW-2 11/30/2022	IW-2 3/21/2023	IW-2 6/26/2023	IW-2 9/27/2023	IW-3 7/24/2019	IW-3 12/12/2019	IW-3 11/30/2022	IW-3 3/21/2023	IW-3 6/26/2023
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U
1,1-Dichloroethane	µg/L	5	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ
1,1-Dichloroethene	µg/L	5	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U
1,2-Dichloroethane	µg/L	0.6	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U
1,4-Dioxane	µg/L	--	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ
2-Butanone (MEK)	µg/L	50	ND	**67**	15 J	20 U	20 U	20 U	**100**	48	3.5 J	20 U	20 U	20 U	**400**	**780**	11 J	20 U	20 U
Acetone	µg/L	50	ND	**250**	**75**	50 U	3.9 J	5.3 J	**960**	**660**	26 J	50 U	3.8 J	50 U	**650**	**340**	19 J	50 U	3.5 J
Benzene	µg/L	1	ND	ND	0.2 U	1 U	**1.3**	1 U	ND	ND	0.2 U	1 U	0.19 J	1 U	ND	ND	0.2 U	1 U	**6.6**
Bromodichloromethane	µg/L	50	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U
Carbon Disulfide	µg/L	60	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U
Chlorodibromomethane	µg/L	50	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U
Chloroethane	µg/L	5	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U
Chloroform	µg/L	7	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U
Chloromethane	µg/L	5	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	ND	1.4	0.52 U	2 U	2 U
cis-1,2-Dichloroethene	µg/L	5	ND	ND	0.15 U	1 U	1 UJ	1 U	ND	ND	0.15 U	1 U	1 UJ	1 U	ND	**30**	3.9	0.43 J	0.49 J
Cyclohexane	µg/L	--	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U
Dichloromethane	µg/L	5	2.8	**17**	0.23 U	5 U	5 U	5 U	2.1	1.9	0.23 U	5 U	5 U	5 U	**100**	ND	0.23 U	5 U	5 U
Diethyl ether	µg/L	--	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	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	NA	NA	0.13 U	0.5 U	NA
Isopropylbenzene	µg/L	5	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U
Methyl Acetate	µg/L	--	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U
Methylcyclohexane	µg/L	--	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U
Methyl-tert-butylether	µg/L	10	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U
tert-Butylbenzene	µg/L	5	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA
Tetrachloroethene	µg/L	5	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	4.1	0.19 U	1 U	1 U
Tetrahydrofuran	µg/L	50	NA	NA	11	10 U	NA	NA	NA	NA	2.6 J	10 U	NA	NA	NA	NA	36	1.3 J	NA
Toluene	µg/L	5	ND	ND	0.25 J	1.0	1 U	1 U	ND	ND	0.30 J	0.94 J	1.0	1 U	ND	ND	0.22 U	1 U	0.23 J
Total VOCs	µg/L	--	2.8	334	NA	NA	NA	NA	1062	710	NA	NA	NA	NA	1150	1298	NA	NA	NA
trans-1,2-Dichloroethene	µg/L	5	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND	0.34 J	1 U	1 U
Trichloroethene	µg/L	5	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	2.1	0.19 U	1 U	1 U
Vinyl chloride	µg/L	2	ND	ND	0.21 U	2 U	2 U	2 UJ	ND	ND	0.21 U	2 U	2 U	2 UJ	ND	ND	1.1 J	0.45 J	2 U
Dissolved Gases																			
Ethane	µg/L	--	ND	ND	0.0026 U	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA	ND	ND	0.0026 U	NA	NA
Ethene	ug/L	--	ND	ND	0.003 U	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND	ND	0.003 U	NA	NA
Methane	ug/L	--	ND	15000	7.3	NA	NA	NA	NA	6600	0.20	NA	NA	NA	NA	19000	5.3	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
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	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
Perfluorobutanoic acid (PFBA)	ng/L	--	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
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	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
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	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
Perfluorononanoic acid (PFNA)	ng/L	--	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
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	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
Perfluoropentanoic acid (PFPeA)	ng/L	--	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
Total Perfluoroalkylated substances (PFASs)	ng/L	--	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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	IW-3 9/27/2023	IW-7 7/25/2019	IW-7 12/12/2019	IW-7 11/29/2022	IW-7 3/21/2023	IW-7 6/26/2023	IW-7 9/27/2023	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-14 7/26/2019	IW-14 12/12/2019	IW-14 11/29/2022	IW-14 3/21/2023
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U
1,1-Dichloroethane	µg/L	5	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U
1,1-Dichloroethene	µg/L	5	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U
1,2-Dichloroethane	µg/L	0.6	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U
1,4-Dioxane	µg/L	--	50 U	NA	NA	21 U	50 U	50 U	50 U	NA	NA	21 U	50 U	50 U	50 U	NA	NA	21 U	50 U
2-Butanone (MEK)	µg/L	50	20 U	6.3	18	1.6 U	20 U	20 U	20 U	**980**	**420**	3.5 J	20 U	1.8 J	20 U	**760**	**750**	13 J	20 U
Acetone	µg/L	50	4.8 J	7.3	45	3.6 J	50 U	3.9 J	50 U	**1500**	**880**	4.8 J	50 U	4.0 J	4.6 J	ND	ND	5.3 J	50 U
Benzene	µg/L	1	**1.4**	0.9	**1.1**	0.81 J	**1.0**	**2.0**	**1.4**	ND	ND	0.2 U	1 U	1 U	1 U	ND	ND	**1.2**	**1.2**
Bromodichloromethane	µg/L	50	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U
Carbon Disulfide	µg/L	60	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U
Chlorodibromomethane	µg/L	50	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U
Chloroethane	µg/L	5	2 U	ND	1	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U
Chloroform	µg/L	7	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U
Chloromethane	µg/L	5	2 U	ND	1	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U
cis-1,2-Dichloroethene	µg/L	5	0.42 J	1.8	ND	0.40 J	0.35 J	0.47 J	0.76 J	ND	ND	1.2	0.52 J	0.38 J	0.41 J	**5100**	**4600**	1.7	1.2
Cyclohexane	µg/L	--	5 U	1.5	1.5	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA
Dichloromethane	µg/L	5	5 U	ND	ND	0.23 U	5 U	5 U	5 U	ND	**41**	0.23 U	5 U	5 U	5 U	**50**	**95**	0.23 U	5 U
Diethyl ether	µg/L	--	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U
Di-isopropyl ether	µg/L	--	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U
Isopropylbenzene	µg/L	5	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U
Methyl Acetate	µg/L	--	1 U	ND	ND	0.45 U	1 U	1 U	1 U	ND	ND	0.45 U	1 U	1.0	1 U	ND	ND	0.45 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	10 U	ND	ND	1.1 U	10 U	10 U	10 U	**250**	ND	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U
Methylcyclohexane	µg/L	--	1 U	0.5	0.3	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U
Methyl-tert-butylether	µg/L	10	1 U	0.3	0.4	0.50 J	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U
tert-Butylbenzene	µg/L	5	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U
Tetrachloroethene	µg/L	5	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U
Tetrahydrofuran	µg/L	50	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	2.2 J	10 U	NA	NA	NA	NA	0.49 U	10 U
Toluene	µg/L	5	1 U	ND	ND	0.22 U	2.5	3.6	1.2	ND	ND	0.22 U	1 U	0.28 J	0.34 J	ND	ND	0.39 J	1.0
Total VOCs	µg/L	--	NA	27	70	NA	NA	NA	NA	2730	1341	NA	NA	NA	NA	7010	6545	NA	NA
trans-1,2-Dichloroethene	µg/L	5	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND	0.21 J	1 U
Trichloroethene	µg/L	5	1 U	0.5	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.33 J	1 U	1 U	1 U	ND	ND	0.19 U	1 U
Vinyl chloride	µg/L	2	2 UJ	**7.6**	1.4	0.21 U	2 U	2 U	2 UJ	ND	ND	0.61 J	2 U	2 U	2 UJ	**1100**	**1100**	1.5 J	0.31 J
Dissolved Gases																			
Ethane	µg/L	--	NA	ND	ND	0.063	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA	ND	38	0.068	NA
Ethene	ug/L	--	NA	ND	3100	0.003 U	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND	1800	0.0067 J	NA
Methane	ug/L	--	NA	NA	21000	12	NA	NA	NA	NA	9100	12	NA	NA	NA	NA	4900	11	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
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	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
Perfluorobutanoic acid (PFBA)	ng/L	--	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
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	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
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	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
Perfluorononanoic acid (PFNA)	ng/L	--	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
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	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
Perfluoropentanoic acid (PFPeA)	ng/L	--	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
Total Perfluoroalkylated substances (PFASs)	ng/L	--	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)
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Table 3
Summary of Groundwater Sampling Results
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	IW-14 6/26/2023	IW-14 9/27/2023	IW-17 7/25/2019	IW-17 12/12/2019	IW-17 11/29/2022	IW-17 3/21/2023	IW-17 6/26/2023	IW-17 9/27/2023	IW-18 9/13/2023	IW-19 7/25/2019	IW-19 12/11/2019	IW-19 11/29/2022	IW-19 3/21/2023	IW-19 6/26/2023	IW-19 9/27/2023	IW-24 7/23/2019	IW-24 12/11/2019
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	1 U	1 U	ND	ND	0.18 U [0.18 U]	1 U	1 U	1 U	NA	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND
1,1-Dichloroethane	µg/L	5	1 UJ	1 U	ND	ND	0.81 J [0.86 J]	1 U	0.27 J	1 U	NA	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND
1,1-Dichloroethene	µg/L	5	1 U	1 U	ND	ND	0.14 U [0.14 U]	1 U	1 U	1 U	NA	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND
1,2-Dichloroethane	µg/L	0.6	1 U	1 U	ND	ND	**0.86 J [0.90 J]**	0.55 J	1 U	1 U	NA	**0.7**	ND	0.31 UJ	1 U	1 U	1 U	ND	ND
1,4-Dioxane	µg/L	--	50 UJ	50 U	NA	NA	21 UJ [21 U]	50 U	50 UJ	50 U	NA	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA
2-Butanone (MEK)	µg/L	50	20 U	20 U	**740**	**200**	12 J [12 J]	20 U	20 U	20 U	NA	**87**	**89**	1.6 U	20 U	20 U	20 U	22	**80**
Acetone	µg/L	50	5.7 J	4.9 J	ND	ND	9.6 J [9.4 J]	50 U	3.6 J	4.7 J	NA	37	**130**	2.6 J	50 U	9.3 J	50 U	39	**110**
Benzene	µg/L	1	**1.1**	0.98 J	ND	ND	**1.7 [1.8]**	**1.1**	**1.1**	**1.6**	NA	**4.6**	ND	**3.5**	**3.2**	**2.1**	**1.5**	ND	ND
Bromodichloromethane	µg/L	50	0.5 U	0.5 U	ND	ND	0.18 U [0.18 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	ND	ND
Carbon Disulfide	µg/L	60	1.8 J	5 U	ND	ND	1.4 U [1.4 U]	5 U	2.1 J	5 U	NA	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND
Chlorodibromomethane	µg/L	50	0.5 U	0.5 U	ND	ND	0.22 U [0.22 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	ND	ND
Chloroethane	µg/L	5	2 U	2 U	ND	ND	0.32 U [0.32 U]	2 U	0.64 J	2 U	NA	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND
Chloroform	µg/L	7	2 U	2 U	ND	ND	0.17 U [0.17 U]	2 U	2 U	2 U	NA	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND
Chloromethane	µg/L	5	2 U	2 U	ND	ND	0.52 U [0.52 U]	2 U	2 U	2 U	NA	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND
cis-1,2-Dichloroethene	µg/L	5	2.7 J	2.2	**4000**	ND	**11 [11]**	0.71 J	2.8 J	0.77 J	NA	1.2	ND	**27**	1 U	0.37 J	0.27 J	ND	ND
Cyclohexane	µg/L	--	5 U	5 U	ND	ND	NA	NA	5 U	5 U	NA	3.7	3.8	NA	NA	4.5 J	5 U	ND	ND
Dichloromethane	µg/L	5	5 U	5 U	ND	**100**	0.23 U [0.23 U]	5 U	5 U	5 U	NA	ND	ND	0.23 U	5 U	5 U	5 U	ND	ND
Diethyl ether	µg/L	--	NA	NA	NA	NA	0.75 J [0.81 J]	2 U	NA	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA
Di-isopropyl ether	µg/L	--	NA	NA	NA	NA	0.26 J [0.28 J]	0.5 U	NA	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA
Isopropylbenzene	µg/L	5	1 U	1 U	ND	ND	0.11 U [0.11 U]	1 U	1 U	1 U	NA	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND
Methyl Acetate	µg/L	--	1 UJ	1 U	ND	ND	2.0 J [1.8]	1 U	1 UJ	1 U	NA	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	10 U	10 U	ND	ND	1.1 U [1.1 U]	10 U	10 U	10 U	NA	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND
Methylcyclohexane	µg/L	--	0.20 J	1 U	ND	ND	0.24 U [0.24 U]	1 U	1 U	1 U	NA	0.4	9.8	0.24 U	0.44 J	0.43 J	0.44 J	ND	ND
Methyl-tert-butylether	µg/L	10	1 U	1 U	ND	ND	0.56 J [0.57 J]	1 U	1 U	1 U	NA	1.8	ND	0.98 J	1 U	1 U	1 U	0.2	ND
tert-Butylbenzene	µg/L	5	NA	NA	NA	NA	0.13 U [0.13 U]	1 U	NA	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA
Tetrachloroethene	µg/L	5	1 U	1 U	ND	ND	0.19 U [0.19 U]	1 U	1 U	1 U	NA	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND
Tetrahydrofuran	µg/L	50	NA	NA	NA	NA	0.49 U [0.49 U]	10 U	NA	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA
Toluene	µg/L	5	0.83 J	0.98 J	ND	ND	0.33 J [0.30 J]	0.31 J	0.45 J	0.31 J	NA	ND	ND	0.98 J	0.99 J	0.71 J	0.64 J	ND	ND
Total VOCs	µg/L	--	NA	NA	5050	300	NA	NA	NA	NA	NA	138	233	NA	NA	NA	NA	61	190
trans-1,2-Dichloroethene	µg/L	5	0.31 J	1 U	ND	ND	0.17 U [0.17 U]	1 U	1 U	1 U	NA	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND
Trichloroethene	µg/L	5	1 U	1 U	**60**	ND	0.19 U [0.19 U]	1 U	1 U	1 U	NA	ND	ND	1.3	1 U	1 U	1 U	ND	ND
Vinyl chloride	µg/L	2	2 U	0.51 J	**250**	ND	**11 [11]**	2 U	**8.5**	2 UJ	NA	1.9	ND	**16**	2 U	2 U	2 UJ	ND	ND
Dissolved Gases																			
Ethane	µg/L	--	NA	NA	ND	ND	0.16 [0.17]	NA	NA	NA	NA	ND	ND	0.019	NA	NA	NA	ND	ND
Ethene	ug/L	--	NA	NA	ND	ND	0.12 [0.13]	NA	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND	ND
Methane	ug/L	--	NA	NA	NA	9700	13 [12]	NA	NA	NA	NA	NA	15000	8.2	NA	NA	NA	NA	10000
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	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluoroocatane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	7.6	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	18 J+	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	1.0 J	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	1.7 J	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	17	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	2.1 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

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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	IW-24 11/29/2022	IW-24 3/21/2023	IW-24 6/26/2023	IW-24 9/27/2023	IW-25 7/23/2019	IW-25 12/11/2019	IW-25 11/29/2022	IW-25 3/21/2023	IW-25 6/26/2023	IW-25 9/13/2023	IW-29 7/25/2019	IW-29 12/11/2019	IW-29 11/29/2022	IW-29 3/21/2023	IW-29 6/26/2023	IW-29 9/27/2023	IW-31 7/25/2019
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	0.18 U	1 U	1 U	1 U	ND	ND	3.7 U [1.8 U]	1 U	1 U	10 U	ND	ND	0.18 U	1 U	1 U	1 U	ND
1,1-Dichloroethane	µg/L	5	0.14 U	1 U	1 UJ	1 U	ND	ND	2.8 U [1.4 U]	1 U	1 UJ	10 U	ND	ND	0.14 U	1 U	1 UJ	1 U	ND
1,1-Dichloroethene	µg/L	5	0.14 U	1 U	1 U	1 U	ND	ND	2.8 U [2.0 J]	0.25 J	1 U	10 U	ND	ND	0.14 U	1 U	1 U	1 U	ND
1,2-Dichloroethane	µg/L	0.6	0.31 UJ	1 U	1 U	1 U	ND	ND	6.2 UJ [3.1 U]	1 U	1 U	10 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND
1,4-Dioxane	µg/L	--	21 U	50 U	50 UJ	50 U	NA	NA	410 U [210 U]	50 U	50 UJ	500 U	NA	NA	21 U	50 U	50 UJ	50 UJ	NA
2-Butanone (MEK)	µg/L	50	6.9 J	20 U	20 U	20 U	12	1.5	32 U [16 U]	20 U	20 U	200 U	ND	ND	1.6 U	20 U	20 U	20 U	ND
Acetone	µg/L	50	28 J	50 U	4.2 J	5.2 J	39	4	41 U [20 U]	50 U	6.5 J	500 U	42	ND	2.3 J	50 U	4.0 J	50 U	ND
Benzene	µg/L	1	0.2 U	1 U	1 U	1 U	**3.1**	**2.9**	4 U [2.4 J]	**2.6**	**1.4**	10 U	ND	ND	0.2 U	1 U	1 U	1 U	ND
Bromodichloromethane	µg/L	50	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	3.6 U [1.8 U]	0.5 U	0.5 U	5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND
Carbon Disulfide	µg/L	60	1.4 U	5 U	5 U	5 U	ND	ND	29 U [14 U]	5 U	5 U	50 U	ND	ND	1.4 U	5 U	5 U	5 U	ND
Chlorodibromomethane	µg/L	50	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	4.4 U [2.2 U]	0.5 U	0.5 U	5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND
Chloroethane	µg/L	5	0.32 U	2 U	2 U	2 U	ND	ND	6.4 U [3.2 U]	2 U	2 U	20 U	ND	ND	0.32 U	0.97 J	0.51 J	2 U	ND
Chloroform	µg/L	7	0.17 U	2 U	2 U	2 U	ND	ND	3.4 U [1.7 U]	2 U	0.18 J	20 U	ND	ND	0.17 U	2 U	2 U	2 U	ND
Chloromethane	µg/L	5	0.52 U	2 U	2 U	2 U	ND	ND	10 U [5.2 U]	2 U	2 U	20 UJ	ND	ND	0.52 U	2 U	2 U	2 U	ND
cis-1,2-Dichloroethene	µg/L	5	1.4	1 U	1 UJ	1 U	**5.2**	1	**1400 [1300]**	**120**	1.2 J	**950**	ND	ND	1.1	0.61 J	0.58 J	0.68 J	ND
Cyclohexane	µg/L	--	NA	NA	5 U	5 U	15	7	NA	NA	6.1	50 U	ND	ND	NA	NA	5 U	5 U	ND
Dichloromethane	µg/L	5	0.23 U	5 U	5 U	5 U	ND	ND	4.7 U [2.3 U]	5 U	5 U	50 U	4.6	ND	0.23 U	5 U	5 U	5 U	**5.3**
Diethyl ether	µg/L	--	0.18 U	2 U	NA	NA	NA	NA	3.6 U [1.8 U]	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA
Di-isopropyl ether	µg/L	--	0.13 U	0.5 U	NA	NA	NA	NA	2.6 U [1.3 U]	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA
Isopropylbenzene	µg/L	5	0.11 U	1 U	1 U	1 U	ND	ND	2.2 U [1.1 U]	0.24 J	1 U	10 U	ND	ND	0.11 U	1 U	1 U	1 U	ND
Methyl Acetate	µg/L	--	0.91 J	1 U	1 UJ	1 U	ND	ND	9.1 U [4.5 U]	1 U	1 UJ	10 U	ND	ND	0.45 U	1 U	1 UJ	1 UJ	ND
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	1.1 U	10 U	10 U	10 U	ND	ND	22 U [11 U]	10 U	10 U	100 U	ND	ND	1.1 U	10 U	10 U	10 U	ND
Methylcyclohexane	µg/L	--	0.24 U	1 U	1 U	1 U	1.4	0.6	4.9 U [2.4 U]	0.59 J	0.30 J	10 U	ND	ND	0.24 U	1 U	1 U	1 U	ND
Methyl-tert-butylether	µg/L	10	0.58 J	1 U	1 U	1 U	ND	ND	3.4 U [1.7 U]	1 U	1 U	10 U	ND	ND	0.17 U	1 U	1 U	1 U	ND
tert-Butylbenzene	µg/L	5	0.13 U	1 U	NA	NA	NA	NA	2.6 U [1.3 U]	0.36 J	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA
Tetrachloroethene	µg/L	5	0.19 U	1 U	1 U	1 U	ND	ND	3.7 U [1.9 U]	1 U	1 U	10 U	ND	ND	0.19 U	1 U	1 U	1 U	ND
Tetrahydrofuran	µg/L	50	1.3 J	10 U	NA	NA	NA	NA	9.8 U [4.9 U]	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA
Toluene	µg/L	5	0.22 U	0.25 J	0.70 J	0.37 J	ND	ND	4.5 U [2.2 U]	0.77 J	0.50 J	10 U	ND	ND	0.27 J	1 U	1 U	1 U	ND
Total VOCs	µg/L	--	NA	NA	NA	NA	84	18	NA	NA	NA	NA	47	NA	NA	NA	NA	NA	5.3
trans-1,2-Dichloroethene	µg/L	5	0.17 UJ	1 U	1 U	1 U	3.6	0.9	**13 J [12]**	1.5	0.28 J	**8.0 J**	ND	ND	0.17 UJ	1 U	1 U	1 U	ND
Trichloroethene	µg/L	5	0.19 U	1 U	1 U	1 U	ND	ND	**31 [30]**	1.8	1 U	**8.2 J**	ND	ND	0.19 U	1 U	1 U	1 U	ND
Vinyl chloride	µg/L	2	0.22 J	2 UJ	2 U	2 UJ	**5**	ND	**450 [420]**	**60 J**	2 U	**170**	ND	ND	0.36 J	2 UJ	2 U	2 UJ	ND
Dissolved Gases																			
Ethane	µg/L	--	0.0026 U	NA	NA	NA	ND	55	0.0049 J [0.090 J]	NA	NA	NA	ND	2.8	0.0026 U	NA	NA	NA	ND
Ethene	ug/L	--	0.003 U	NA	NA	NA	ND	ND	0.064 [0.072]	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND
Methane	ug/L	--	7.2	NA	NA	NA	NA	15000	4.6 [4.4]	NA	NA	NA	NA	21000	7.7	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	0.89 U	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 J+	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41 J	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	**28**	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	**13**	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 U	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

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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	IW-31 12/10/2019	IW-31 12/2/2022	IW-31 3/21/2023	IW-31 6/26/2023	IW-31 9/13/2023	MW-1R 7/26/2019	MW-1R 12/10/2019	MW-1R 12/1/2022	MW-1R 3/21/2023	MW-1R 6/7/2023	MW-1R 9/27/2023	MW-2 7/23/2019	MW-2 12/10/2019	MW-2 12/1/2022	MW-2 3/21/2023	MW-2 6/7/2023
Detected Volatile Organics																		
1,1,2-Trichloroethane	µg/L	1	ND	0.18 U	1 U	1 U [1 U]	1 U	ND	ND	0.37 U	1 U	1 U [1 U]	1 U	ND	ND	0.18 U	1 U	1 U
1,1-Dichloroethane	µg/L	5	ND	0.14 U	1 U	1 UJ [1 U]	1 U	ND	ND	0.84 J	0.40 J	1.3 [1.2]	1.0	ND	ND	0.14 U	1 U	1 U
1,1-Dichloroethene	µg/L	5	ND	0.14 U	1 U	1 U [1 U]	1 U	ND	1.6	0.66 J	0.33 J	1 UJ [1 UJ]	1 U	ND	ND	0.14 U	1 U	1 UJ
1,2-Dichloroethane	µg/L	0.6	ND	0.31 U	1 U	1 U [1 U]	1 U	ND	ND	0.62 U	1 U	1 U [1 U]	1 U	ND	ND	0.31 U	1 U	1 U
1,4-Dioxane	µg/L	--	NA	21 U	50 U	50 UJ [50 U]	50 U	ND	NA	41 U	50 U	50 U [50 U]	50 U	NA	NA	21 U	50 U	50 U
2-Butanone (MEK)	µg/L	50	ND	1.6 U	20 U	20 U [20 U]	20 U	9.2	ND	3.2 U	20 U	20 U [20 U]	20 U	ND	ND	1.6 U	20 U	20 U
Acetone	µg/L	50	ND	4.5 J	50 U	4.2 J [4.2 J]	3.0 J	**120**	34	4.1 U	50 U	50 U [50 U]	50 U	3.6	ND	2 U	50 U	50 U
Benzene	µg/L	1	ND	0.2 U	1 U	1 U [1 U]	1 U	ND	ND	0.4 U	1 U	1 U [1 U]	1 U	ND	ND	0.2 U	1 U	1 U
Bromodichloromethane	µg/L	50	ND	0.18 U	0.5 U	0.5 U [0.5 U]	0.5 U	ND	ND	0.36 U	0.5 U	0.5 U [0.5 U]	0.5 U	ND	ND	0.70	0.30 J	0.5 U
Carbon Disulfide	µg/L	60	ND	1.4 U	5 U	5 U [5 U]	5 U	ND	ND	2.9 U	5 U	5 U [5 U]	5 U	ND	ND	1.4 U	5 U	5 U
Chlorodibromomethane	µg/L	50	ND	0.22 U	0.5 U	0.5 U [0.5 U]	0.5 U	ND	ND	0.44 U	0.5 U	0.5 U [0.5 U]	0.5 U	ND	ND	0.33 J	0.5 U	0.5 U
Chloroethane	µg/L	5	ND	0.32 U	2 U	2 U [2 U]	2 U	0.88	ND	0.64 U	2 U	2 U [0.35 J]	2 U	ND	ND	0.32 U	2 U	2 U
Chloroform	µg/L	7	ND	0.17 U	2 U	2 U [2 U]	2 U	ND	ND	0.34 U	2 U	2 U [2 U]	2 U	0.7	ND	0.17 U	0.59 J	0.53 J
Chloromethane	µg/L	5	ND	0.52 U	2 U	2 U [2 U]	2 UJ	ND	ND	1 U	2 U	2 U [2 U]	2 U	ND	ND	0.52 U	2 U	2 U
cis-1,2-Dichloroethene	µg/L	5	ND	2.2	0.97 J	0.92 J [0.54 J]	1.4	**47**	**260**	**150**	**160**	**34 [31]**	**21 J**	**6.2**	2.4	0.63 J	0.66 J	1.1
Cyclohexane	µg/L	--	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
Dichloromethane	µg/L	5	ND	0.23 U	5 U	5 U [5 U]	5 U	ND	ND	0.47 U	5 U	5 U [5 U]	5 U	ND	ND	0.23 U	5 U	5 U
Diethyl ether	µg/L	--	NA	0.18 U	2 U	NA	NA	NA	NA	0.36 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA
Di-isopropyl ether	µg/L	--	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.26 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA
Isopropylbenzene	µg/L	5	ND	0.11 U	1 U	1 U [1 U]	1 U	ND	ND	0.22 U	1 U	1 U [1 U]	1 U	ND	ND	0.11 U	1 U	1 U
Methyl Acetate	µg/L	--	ND	0.45 UJ	1 U	1 UJ [1 U]	1 U	ND	ND	0.91 U	1 U	1 U [1 U]	1 U	ND	ND	0.45 U	1 U	1 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	ND	1.1 U	10 U	10 U [10 U]	10 U	3	ND	2.2 U	10 U	10 U [10 U]	10 U	ND	ND	1.1 U	10 U	10 U
Methylcyclohexane	µg/L	--	ND	0.24 U	1 U	1 U [1 U]	1 U	ND	ND	0.49 U	1 U	1 U [1 U]	1 U	ND	ND	0.24 U	1 U	1 U
Methyl-tert-butylether	µg/L	10	ND	0.17 U	1 U	1 U [1 U]	1 U	ND	ND	0.34 U	1 U	1 U [1 U]	1 U	ND	ND	0.17 U	1 U	1 U
tert-Butylbenzene	µg/L	5	NA	0.13 U	1 U	NA	NA	NA	NA	0.26 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA
Tetrachloroethene	µg/L	5	ND	0.48 J	1 U	1 U [1 U]	1 U	0.4	**90**	**200**	0.96 J	**12 [13]**	0.79 J	**37**	**30**	**15**	**11**	**12**
Tetrahydrofuran	µg/L	50	NA	0.49 U	10 U	NA	NA	NA	NA	0.98 U	10 U	NA	NA	NA	NA	0.49 U	10 U	NA
Toluene	µg/L	5	1.5	0.22 U	1 U	1 U [1 U]	1 U	ND	ND	0.45 U	1 U	1 U [1 U]	1 U	ND	ND	0.22 U	1 U	1 U
Total VOCs	µg/L	--	1.5	NA	NA	NA	NA	216	521	NA	NA	NA	NA	55	37	NA	NA	NA
trans-1,2-Dichloroethene	µg/L	5	ND	0.17 U	1 U	1 U [1 U]	1 U	ND	2.2	1.4 J	1.7	0.63 J [0.59 J]	1 U	ND	ND	0.17 U	1 U	1 U
Trichloroethene	µg/L	5	ND	0.43 J	1 U	0.20 J [1 U]	0.19 J	0.7	**44**	**71**	4.8	**8.6 [8.3]**	4.1	**7.2**	4.1	1.8	0.90 J	1.1
Vinyl chloride	µg/L	2	ND	**4.4 J**	1.2 J	2 U [2 U]	0.68 J	**35**	**89**	**32**	**68 J**	**13 [13]**	**11 J**	ND	ND	0.21 U	2 UJ	2 U
Dissolved Gases																		
Ethane	µg/L	--	ND	0.0026 U	NA	NA	NA	NA	NA	0.14	NA	NA	NA	NA	ND	0.0026 U	NA	NA
Ethene	ug/L	--	ND	0.003 U	NA	NA	NA	NA	NA	0.026	NA	NA	NA	NA	ND	0.003 U	NA	NA
Methane	ug/L	--	11000	11	NA	NA	NA	NA	14000	2.4	NA	NA	NA	NA	ND	0.0084 U	NA	NA
Detected PFAS and PFOs		**NYSDEC Maximum Contaminant Levels (MCL)**																
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	ng/L	--	NA	NA	NA	NA	2.1 U	NA	NA	4.46	NA	7.5 [7.7]	NA	NA	NA	NA	NA	0.99 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	NA	NA	NA	NA	2.1 U	NA	NA	1.44 U	NA	0.89 [1.1]	NA	NA	NA	NA	NA	0.99 U
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	NA	NA	NA	NA	2.5	ND	NA	3.67	NA	4.9 [4.3]	NA	NA	NA	NA	NA	3.5
Perfluorobutanoic acid (PFBA)	ng/L	--	NA	NA	NA	NA	8.3 U	ND	NA	7.92	NA	10 J+ [10 J+]	NA	NA	NA	NA	NA	17
Perfluorodecanoic acid (PFDA)	ng/L	--	NA	NA	NA	NA	2.1 U	ND	NA	10.1	NA	8.6 [8.7]	NA	NA	NA	NA	NA	0.99 U
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	NA	NA	NA	NA	2.1 U	ND	NA	4.1	NA	3.2 [4.1]	NA	NA	NA	NA	NA	0.42 J
Perfluoroheptanoic acid (PFHpA)	ng/L	--	NA	NA	NA	NA	2.0 J	8.6	NA	10.2	NA	13 [14]	NA	NA	NA	NA	NA	9.3
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	NA	NA	NA	NA	2.2	7.8	NA	8.42	NA	9.8 [10]	NA	NA	NA	NA	NA	5.2 J+
Perfluorohexanoic acid (PFHxA)	ng/L	--	NA	NA	NA	NA	4.8	11	NA	14.3	NA	18 [19]	NA	NA	NA	NA	NA	24
Perfluorononanoic acid (PFNA)	ng/L	--	NA	NA	NA	NA	2.0 J	4.3	NA	9.43	NA	8.7 [8.5]	NA	NA	NA	NA	NA	1.6 J+
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	NA	NA	NA	NA	2.1 U	ND	NA	7.92 J	NA	5.3 J [0.98 UJ]	NA	NA	NA	NA	NA	0.99 U
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	**53**	**77**	NA	**415**	NA	**520 D [610 D]**	NA	NA	NA	NA	NA	**32 J+**
Perfluorooctanoic acid (PFOA)	ng/L	10	NA	NA	NA	NA	**10**	**39**	NA	**49.9**	NA	**65 [67]**	NA	NA	NA	NA	NA	**19 J+**
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	NA	NA	NA	NA	0.64 J	NA	NA	2.66	NA	2.1 [2.7]	NA	NA	NA	NA	NA	1.2
Perfluoropentanoic acid (PFPeA)	ng/L	--	NA	NA	NA	NA	9.6	ND	NA	19.1	NA	25 [26]	NA	NA	NA	NA	NA	44
Perfluoroundecanoic acid (PFUdA)	ng/L	--	NA	NA	NA	NA	2.1 U	ND	NA	1.44 U	NA	0.26 J [0.98 U]	NA	NA	NA	NA	NA	0.99 U
Total Perfluoroalkylated substances (PFASs)	ng/L	--	NA	NA	NA	NA	NA	147.7	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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-2 9/13/2023	MW-5 7/23/2019	MW-5 12/10/2019	MW-5 11/30/2022	MW-5 3/21/2023	MW-5 6/7/2023	MW-5 9/13/2023	MW-7 7/26/2019	MW-7 12/11/2019	MW-7 12/1/2022	MW-7 3/21/2023	MW-7 6/7/2023	MW-7 9/27/2023	MW-8 7/23/2019	MW-8 12/11/2019	MW-8 12/2/2022	MW-8 3/21/2023
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	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	ND	ND	0.18 U	1 U
1,1-Dichloroethane	µg/L	5	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	ND	ND	0.14 U	1 U
1,1-Dichloroethene	µg/L	5	1 U	ND	ND	0.14 U	1 U [1 U]	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	0.18 J	ND	ND	0.14 U	1 U
1,2-Dichloroethane	µg/L	0.6	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	ND	ND	0.31 U	1 U
1,4-Dioxane	µg/L	--	50 U	NA	NA	21 U	50 U [50 U]	50 U	50 U	0.31	NA	21 U	50 U	50 U	50 U	NA	NA	21 U	50 U
2-Butanone (MEK)	µg/L	50	20 U	ND	ND	1.6 U	20 U [20 U]	20 U	20 U	36	ND	1.6 U	20 U	20 U	20 U	ND	ND	1.6 U	20 U
Acetone	µg/L	50	2.5 J	ND	ND	2 U	50 U [50 U]	50 U	2.7 J	**130**	ND	2 U	50 U	50 U	4.1 J	ND	ND	3.1 J	50 U
Benzene	µg/L	1	1 U	ND	ND	0.2 U	1 U [1 U]	1 U	1 U	ND	ND	0.24 J	0.19 J	0.25 J	0.45 J	ND	ND	0.2 U	1 U
Bromodichloromethane	µg/L	50	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	ND	ND	0.18 U	0.5 U
Carbon Disulfide	µg/L	60	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	ND	ND	1.4 U	5 U
Chlorodibromomethane	µg/L	50	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	ND	ND	0.22 U	0.5 U
Chloroethane	µg/L	5	2 U	ND	ND	0.32 U	2 U [2 U]	2 U	2 U	ND	ND	0.32 U	2 U	0.94 J	2 U	ND	ND	0.32 U	2 U
Chloroform	µg/L	7	0.30 J	ND	ND	0.17 U	2 U [2 U]	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U
Chloromethane	µg/L	5	2 UJ	ND	ND	0.52 U	2 UJ [2 U]	2 U	2 UJ	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U
cis-1,2-Dichloroethene	µg/L	5	0.97 J	ND	ND	0.58 J	1 U [1 U]	1 U	1 U	**5.3**	**130**	**5.9**	**17**	**19 J**	**62**	ND	ND	0.15 U	1 U
Cyclohexane	µg/L	--	5 U	ND	ND	NA	NA	5 U	5 U	ND	0.3	NA	NA	5 U	5 U	ND	ND	NA	NA
Dichloromethane	µg/L	5	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	ND	ND	0.23 U	5 U
Diethyl ether	µg/L	--	NA	NA	NA	0.18 U	2 U [2 U]	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U
Di-isopropyl ether	µg/L	--	NA	NA	NA	0.13 U	0.5 U [0.5 UJ]	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U
Isopropylbenzene	µg/L	5	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	ND	ND	0.11 U	1 U
Methyl Acetate	µg/L	--	1 U	ND	ND	0.45 U	1 U [1 U]	1 U	1 U	ND	ND	0.45 U	1 U	1 U	1 U	ND	ND	0.45 UJ	1 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	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	ND	ND	1.1 U	10 U
Methylcyclohexane	µg/L	--	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	ND	ND	0.24 U	1 U
Methyl-tert-butylether	µg/L	10	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	ND	ND	0.17 U	1 U
tert-Butylbenzene	µg/L	5	NA	NA	NA	0.13 U	1 U [1 U]	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U
Tetrachloroethene	µg/L	5	**16**	ND	ND	0.82 J	1 U [0.67 J]	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U
Tetrahydrofuran	µg/L	50	NA	NA	NA	0.49 U	10 U [10 U]	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U
Toluene	µg/L	5	1 U	ND	ND	0.22 U	1 U [1 U]	1 U	1 U	0.7	0.9	0.22 U	1 U	1 U	1 U	ND	ND	0.22 U	1 U
Total VOCs	µg/L	--	NA	NA	NA	NA	NA	NA	NA	176	302	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	µg/L	5	1 U	ND	ND	0.17 U	1 U [1 U]	1 U	1 U	ND	1.3	0.17 U	1 U	1 U	0.45 J	ND	ND	0.17 U	1 U
Trichloroethene	µg/L	5	1.6	ND	ND	0.54 J	1 U [1 U]	1 U	1 U	ND	ND	0.19 U	0.18 J	0.35 J	0.24 J	ND	ND	0.19 U	1 U
Vinyl chloride	µg/L	2	2 U	ND	ND	0.21 U	2 UJ [2 U]	2 U	2 U	**3.9**	**170**	**16**	**100 J**	**53**	**210**	ND	ND	0.21 UJ	2 UJ
Dissolved Gases																			
Ethane	µg/L	--	NA	NA	ND	0.0026 U	NA	NA	NA	NA	67	0.091	NA	NA	NA	NA	ND	0.0026 U	NA
Ethene	ug/L	--	NA	NA	ND	0.003 U	NA	NA	NA	NA	ND	0.011 J	NA	NA	NA	NA	ND	0.003 U	NA
Methane	ug/L	--	NA	NA	15	0.0012 U	NA	NA	NA	NA	20000	8.0	NA	NA	NA	NA	ND	0.019	NA
Detected PFAS and PFOs		**NYSDEC Maximum Contaminant Levels (MCL)**																	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	ng/L	--	0.89 U [0.88 U]	NA	NA	NA	NA	0.92 U	0.9 U	NA	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	0.89 U [0.88 U]	NA	NA	NA	NA	0.92 U	0.9 U	NA	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	4.1 J [5.8 J]	NA	NA	NA	NA	1.9 J+	2.9	2.1	NA	2.03	NA	1.4 J+	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	ng/L	--	18 J+ [18 J+]	NA	NA	NA	NA	9.8 J+	11 J+	6.5	NA	6.95	NA	8.5 J+	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	--	0.57 J [0.56 J]	NA	NA	NA	NA	0.92 U	0.9 U	ND	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	0.55 J [0.54 J]	NA	NA	NA	NA	0.92 U	0.9 U	ND	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	--	10 [9.5]	NA	NA	NA	NA	2.0 J+	3.0	2.9	NA	2.18	NA	2.2 J+	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	6.0 [5.8]	NA	NA	NA	NA	1.2 J+	1.1	1.4	NA	1.8	NA	1.8 J+	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	--	22 [23]	NA	NA	NA	NA	5.3 J+	6.3	5.6	NA	7.34	NA	7.0 J+	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	--	2.4 [2.2]	NA	NA	NA	NA	0.92 U	0.54 J	0.59	NA	1.09 J	NA	1.0 J+	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	0.89 U [0.88 U]	NA	NA	NA	NA	0.92 U	0.29 J	0.4	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	**35 [36]**	NA	NA	NA	NA	0.92 U	1.7	5.6	NA	**42.1**	NA	**31 J+**	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	**22 [23]**	NA	NA	NA	NA	3.8 J+	6.7	8.7	NA	9.99	NA	8.7 J+	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	1.6 [1.8]	NA	NA	NA	NA	0.42 J	0.70 J	NA	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	--	38 [38]	NA	NA	NA	NA	10 J+	11	7.4	NA	9.83	NA	11 J+	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	ng/L	--	0.89 U [0.88 U]	NA	NA	NA	NA	0.92 U	0.9 U	ND	NA	1.56 U	NA	0.92 U	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	41.2	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)
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2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-8 9/13/2023	MW-9 7/23/2019	MW-9 12/11/2019	MW-9 11/30/2022	MW-9 3/21/2023	MW-9 6/26/2023	MW-9 9/27/2023	MW-10 7/25/2019	MW-10 12/11/2019	MW-10 12/14/2022	MW-10 3/21/2023	MW-10BR 7/25/2019	MW-10BR 12/11/2019	MW-10BR 11/30/2022	MW-10BR 3/21/2023	MW-11 7/25/2019	MW-11 12/12/2019
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	NA	ND	ND	1.8 U	2 U	1 U	0.32 J	ND	ND	0.18 U	1 U	ND	ND	0.18 U	1 U	ND	ND
1,1-Dichloroethane	µg/L	5	NA	ND	ND	1.4 U	2 U	1 UJ	1 U	ND	ND	0.14 U	1 U	ND	ND	0.14 U	1 U	ND	ND
1,1-Dichloroethene	µg/L	5	NA	ND	ND	1.4 U	1.0 J	0.52 J	0.66 J	ND	ND	0.14 U	1 U	ND	ND	0.14 U	1 U	ND	ND
1,2-Dichloroethane	µg/L	0.6	NA	ND	ND	3.1 UJ	2 U	1 U	1 U	ND	ND	0.31 U	1 U	ND	ND	0.31 UJ	1 U	ND	ND
1,4-Dioxane	µg/L	--	NA	NA	NA	210 U	100 U	50 UJ	50 U	NA	NA	21 U	50 U	NA	NA	21 U	50 U	NA	NA
2-Butanone (MEK)	µg/L	50	NA	ND	ND	16 U	40 U	20 U	20 U	ND	ND	1.6 U	20 U	ND	ND	1.6 U	20 U	ND	ND
Acetone	µg/L	50	NA	ND	ND	20 U	100 U	50 U	50 U	ND	47	2 U	50 U	3.9	3.7	2 U	50 U	ND	ND
Benzene	µg/L	1	NA	ND	ND	2 U	2 U	1 U	1 U	ND	ND	0.2 U	1 U	ND	ND	0.2 U	1 U	ND	ND
Bromodichloromethane	µg/L	50	NA	ND	ND	1.8 U	1 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	ND	ND	0.18 U	0.5 U	ND	ND
Carbon Disulfide	µg/L	60	NA	ND	ND	14 U	10 U	5 U	5 U	ND	ND	1.4 U	5 U	ND	ND	1.4 U	5 U	ND	ND
Chlorodibromomethane	µg/L	50	NA	ND	ND	2.2 U	1 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	ND	ND	0.22 U	0.5 U	ND	ND
Chloroethane	µg/L	5	NA	ND	ND	3.2 U	4 U	2 U	2 U	ND	ND	0.32 U	2 U	ND	ND	0.32 U	2 U	ND	ND
Chloroform	µg/L	7	NA	ND	ND	1.7 U	4 U	2 U	2 U	ND	ND	0.17 U	2 U	ND	ND	0.17 U	2 U	ND	ND
Chloromethane	µg/L	5	NA	ND	ND	5.2 U	4 U	2 U	2 U	ND	ND	0.52 U	2 U	ND	ND	0.52 U	2 U	ND	ND
cis-1,2-Dichloroethene	µg/L	5	NA	**200**	**47**	**840**	**250**	**130 J**	**180**	ND	ND	0.15 U	1 U	ND	ND	0.15 U	1 U	ND	0.9
Cyclohexane	µg/L	--	NA	2.3	2.3	NA	NA	2.1 J	5 U	0.7	ND	NA	NA	ND	0.7	NA	NA	ND	ND
Dichloromethane	µg/L	5	NA	ND	ND	2.3 U	10 U	5 U	5 U	ND	ND	0.23 U	5 U	ND	ND	0.23 U	5 U	ND	ND
Diethyl ether	µg/L	--	NA	NA	NA	1.8 U	4 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	0.18 U	2 U	NA	NA
Di-isopropyl ether	µg/L	--	NA	NA	NA	1.3 U	1 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA
Isopropylbenzene	µg/L	5	NA	ND	ND	1.1 U	2 U	1 U	1 U	ND	ND	0.11 U	1 U	ND	ND	0.11 U	1 U	ND	ND
Methyl Acetate	µg/L	--	NA	ND	ND	4.5 U	2 U	1 UJ	1 U	ND	ND	0.45 UJ	1 U	ND	ND	0.45 U	1 U	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	NA	ND	ND	11 U	20 U	10 U	10 U	ND	ND	1.1 U	10 U	ND	ND	1.1 U	10 U	ND	ND
Methylcyclohexane	µg/L	--	NA	0.9	0.7	2.4 U	2 U	1 U	1 U	0.2	ND	0.24 U	1 U	ND	ND	0.24 U	1 U	ND	ND
Methyl-tert-butylether	µg/L	10	NA	ND	ND	1.7 U	2 U	1 U	1 U	1.4	ND	1.0	1 U	1.1	1.4	1.3	1 U	2.6	2.7
tert-Butylbenzene	µg/L	5	NA	NA	NA	1.3 U	2 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	0.13 U	1 U	NA	NA
Tetrachloroethene	µg/L	5	NA	1.7	1.7	**460**	**74**	**55**	**14**	ND	ND	0.19 U	1 U	ND	ND	0.19 U	1 U	ND	ND
Tetrahydrofuran	µg/L	50	NA	NA	NA	4.9 U	20 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	0.49 U	10 U	NA	NA
Toluene	µg/L	5	NA	ND	ND	2.2 U	2 U	1 U	1 U	ND	ND	0.22 U	1 U	ND	ND	0.22 U	1 U	ND	ND
Total VOCs	µg/L	--	NA	288	84	NA	NA	NA	NA	4.5	47	NA	NA	5	5.8	NA	NA	3.5	4.6
trans-1,2-Dichloroethene	µg/L	5	NA	3.6	1.6	**9.1 J**	3.2	2.8 J	2.3	ND	ND	0.17 U	1 U	ND	ND	0.17 UJ	1 U	ND	ND
Trichloroethene	µg/L	5	NA	**26**	1.6	**370**	**140**	**130**	**100**	ND	ND	0.19 U	1 U	ND	ND	0.19 U	1 U	ND	ND
Vinyl chloride	µg/L	2	NA	**54**	**29**	**110**	**51 J**	**34**	**39**	**2.2**	ND	0.21 U	2 U	ND	ND	0.21 U	2 U	0.9	1
Dissolved Gases																			
Ethane	µg/L	--	NA	NA	24	0.036	NA	NA	NA	NA	27	0.035	NA	NA	260	0.024	NA	NA	ND
Ethene	ug/L	--	NA	NA	15	0.0056 J	NA	NA	NA	NA	ND	0.003 U	NA	NA	ND	0.003 U	NA	NA	30
Methane	ug/L	--	NA	NA	6400	2.1	NA	NA	NA	NA	1700	5.0	NA	NA	22000	1.8	NA	NA	4500
Detected PFAS and PFOs		**NYSDEC Maximum Contaminant Levels (MCL)**																	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	5.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	ng/L	--	4.9 J+	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	--	0.45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	9.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	--	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	0.91 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	0.83 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	0.40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	--	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	ng/L	--	0.91 U	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

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Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-11 11/29/2022	MW-11 3/21/2023	MW-12 7/26/2019	MW-12 12/12/2019	MW-12 12/1/2022	MW-12 3/21/2023	MW-12 6/26/2023	MW-12 9/27/2023	MW-13 7/23/2019	MW-13 12/11/2019	MW-13 11/30/2022	MW-13 3/21/2023	MW-13 6/26/2023	MW-13 9/27/2023	MW-14 7/23/2019	MW-14 12/11/2019	MW-14 11/30/2022
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	0.18 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	1.8 U	10 U	5 U	4 U	ND	ND	0.18 U
1,1-Dichloroethane	µg/L	5	0.14 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	1.4 U	10 U	5 UJ	4 U	ND	ND	0.14 U
1,1-Dichloroethene	µg/L	5	0.14 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	1.8 J	2.2 J	0.95 J	1.0 JD	ND	ND	0.14 U
1,2-Dichloroethane	µg/L	0.6	0.31 UJ	1 U	ND	ND	0.31 U	1 U	1 U	1 U	ND	ND	3.1 UJ	10 U	5 U	4 U	ND	ND	0.31 U
1,4-Dioxane	µg/L	--	21 U	50 U	ND	NA	21 U	50 U	50 U	50 U	NA	NA	210 U	500 U	250 UJ	200 U	NA	NA	21 U
2-Butanone (MEK)	µg/L	50	1.6 U	20 U	ND	32	1.6 U	20 U	20 U	20 U	ND	ND	16 U	200 U	100 U	80 U	**390**	**240**	1.6 U
Acetone	µg/L	50	2.3 J	50 U	ND	**100**	2 U	50 U	3.9 J	4.3 J	ND	ND	20 U	500 U	250 U	200 U	ND	**350**	20 J
Benzene	µg/L	1	0.2 U	1 U	ND	ND	0.21 J	1 U	1 U	1 U	ND	ND	2 U	10 U	5 U	4 U	ND	ND	**1.3**
Bromodichloromethane	µg/L	50	0.18 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	1.8 U	5 U	2.5 U	2 U	ND	ND	0.18 U
Carbon Disulfide	µg/L	60	1.4 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	14 U	50 U	25 U	20 U	ND	ND	1.4 U
Chlorodibromomethane	µg/L	50	0.22 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	2.2 U	5 U	2.5 U	2 U	ND	ND	0.22 U
Chloroethane	µg/L	5	0.32 U	2 U	ND	ND	**53**	**36**	**24**	**11**	ND	ND	3.2 U	20 U	10 U	8 U	ND	ND	0.32 U
Chloroform	µg/L	7	0.17 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	1.7 U	20 U	10 U	8 U	ND	ND	0.17 U
Chloromethane	µg/L	5	0.52 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	5.2 U	20 U	10 U	8 U	ND	ND	0.52 U
cis-1,2-Dichloroethene	µg/L	5	0.42 J	1.4	ND	ND	0.84 J	1 U	0.84 J	1.2	**2800**	**15**	**810**	**600**	**570 J**	**370 D**	ND	ND	1.7
Cyclohexane	µg/L	--	NA	NA	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	25 U	20 U	ND	ND	NA
Dichloromethane	µg/L	5	0.23 U	5 U	**10**	**17**	0.23 U	5 U	5 U	5 U	ND	ND	2.3 U	50 U	25 U	20 U	ND	ND	0.23 U
Diethyl ether	µg/L	--	0.18 U	2 U	NA	NA	0.18 U	2 U	NA	NA	NA	NA	1.8 U	20 U	NA	NA	NA	NA	0.18 U
Di-isopropyl ether	µg/L	--	0.13 U	0.5 U	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	1.3 U	5 U	NA	NA	NA	NA	0.13 U
Isopropylbenzene	µg/L	5	0.11 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	1.1 U	10 U	5 U	4 U	ND	ND	0.11 U
Methyl Acetate	µg/L	--	0.45 U	1 U	ND	ND	0.45 U	1 U	1 U	1 U	ND	ND	4.5 U	10 U	5 UJ	4 U	ND	ND	0.45 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	1.1 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND	11 U	100 U	50 U	40 U	ND	ND	1.1 U
Methylcyclohexane	µg/L	--	0.24 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	3.2 J	10 U	5 U	4 U	ND	ND	0.24 U
Methyl-tert-butylether	µg/L	10	0.45 J	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	1.7 U	10 U	5 U	4 U	ND	ND	0.25 J
tert-Butylbenzene	µg/L	5	0.13 U	1 U	NA	NA	0.13 U	1 U	NA	NA	NA	NA	1.3 U	10 U	NA	NA	NA	NA	0.13 U
Tetrachloroethene	µg/L	5	0.19 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	**1400**	2.4	**1000**	**800**	**560 D**	**550 D**	ND	ND	1.7
Tetrahydrofuran	µg/L	50	0.49 U	10 U	NA	NA	0.49 U	10 U	NA	NA	NA	NA	4.9 U	100 U	NA	NA	NA	NA	1.5 J
Toluene	µg/L	5	0.22 U	1 U	ND	ND	0.50 J	1 U	0.24 J	0.32 J	ND	ND	2.2 U	10 U	5 U	4 U	ND	ND	0.40 J
Total VOCs	µg/L	--	NA	NA	10	149	NA	NA	NA	NA	5330	21	NA	NA	NA	NA	390	590	NA
trans-1,2-Dichloroethene	µg/L	5	0.17 UJ	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	**11 J**	**7.8 J**	**7.6 D**	**5.6 D**	ND	ND	0.17 U
Trichloroethene	µg/L	5	0.19 U	1 U	ND	ND	0.69 J	0.61 J	0.88 J	0.93 J	**960**	3.7	**490**	**310**	**300 D**	**280 D**	ND	ND	1.1
Vinyl chloride	µg/L	2	0.21 U	0.82 J	ND	ND	0.21 U	2 U	2 U	2 U	**170**	ND	**76**	**77 J**	**49 D**	**43 D**	ND	ND	0.37 J
Dissolved Gases																			
Ethane	µg/L	--	0.072	NA	NA	ND	0.044	NA	NA	NA	NA	ND	0.027	NA	NA	NA	NA	ND	0.014
Ethene	ug/L	--	0.0034 J	NA	NA	ND	0.0052 J	NA	NA	NA	NA	ND	0.0054 J	NA	NA	NA	NA	ND	0.003 U
Methane	ug/L	--	4.6	NA	NA	20000	12	NA	NA	NA	NA	ND	1.4	NA	NA	NA	NA	13000	6.1
Detected PFAS and PFOs		**NYSDEC Maximum Contaminant Levels (MCL)**																	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	ng/L	--	NA	NA	NA	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	NA	NA	NA	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	NA	NA	ND	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	ng/L	--	NA	NA	7.9	NA	2.98 J [3.37 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	--	NA	NA	ND	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	NA	NA	0.23	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	--	NA	NA	3.3	NA	0.508 J [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	NA	NA	0.96	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	--	NA	NA	4.6	NA	2.4 [1.32 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	--	NA	NA	1.4	NA	2.47 [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	NA	NA	ND	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	2.1	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	NA	NA	8.1	NA	0.798 J [0.806 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	NA	NA	NA	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	--	NA	NA	3.9	NA	1.81 J [1.9 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUdA)	ng/L	--	NA	NA	ND	NA	1.45 U [1.46 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Perfluoroalkylated substances (PFASs)	ng/L	--	NA	NA	32.5	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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-14 3/21/2023	MW-14 6/26/2023	MW-14 9/27/2023	MW-14BR 7/23/2019	MW-14BR 12/11/2019	MW-14BR 11/29/2022	MW-14BR 3/21/2023	MW-14BR 6/26/2023	MW-14BR 9/27/2023	MW-15 7/24/2019	MW-15 12/12/2019	MW-15 11/30/2022	MW-15 3/21/2023	MW-15 6/26/2023	MW-15 9/27/2023	MW-15BR 7/24/2019	MW-15BR 12/12/2019
Detected Volatile Organics																			
1,1,2-Trichloroethane	µg/L	1	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND
1,1-Dichloroethane	µg/L	5	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND
1,1-Dichloroethene	µg/L	5	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND
1,2-Dichloroethane	µg/L	0.6	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 UJ	1 U	1 U	1 U	ND	ND
1,4-Dioxane	µg/L	--	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA
2-Butanone (MEK)	µg/L	50	20 U	20 U	20 U	**160**	**130**	1.6 U	20 U	20 U	20 U	ND	ND	1.6 U	20 U	20 U	20 U	ND	ND
Acetone	µg/L	50	50 U	4.4 J	5.2 J	**180**	**190**	4.5 J	50 U	4.3 J	4.5 J	ND	ND	2 U	50 U	3.8 J	4.8 J	ND	ND
Benzene	µg/L	1	1 U	**3.9**	**1.7**	ND	ND	0.36 J	0.24 J	**3.9**	0.49 J	ND	ND	0.2 U	1 U	1 U	1 U	0.7	ND
Bromodichloromethane	µg/L	50	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND
Carbon Disulfide	µg/L	60	2.3 J	2.4 J	5 U	ND	ND	1.4 U	5 U	2.9 J	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND
Chlorodibromomethane	µg/L	50	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND
Chloroethane	µg/L	5	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND
Chloroform	µg/L	7	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND
Chloromethane	µg/L	5	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND
cis-1,2-Dichloroethene	µg/L	5	0.34 J	0.30 J	0.22 J	**120**	**78**	3.1	0.68 J	1.5 J	0.92 J	ND	ND	0.15 U	1 U	1 UJ	1 U	**42**	**17**
Cyclohexane	µg/L	--	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U	0.6	0.3
Dichloromethane	µg/L	5	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	ND	ND
Diethyl ether	µg/L	--	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA
Di-isopropyl ether	µg/L	--	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA
Isopropylbenzene	µg/L	5	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND
Methyl Acetate	µg/L	--	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	10 U	10 U	10 U	**64**	**110**	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND
Methylcyclohexane	µg/L	--	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND
Methyl-tert-butylether	µg/L	10	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	1.2	0.6
tert-Butylbenzene	µg/L	5	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA
Tetrachloroethene	µg/L	5	1 U	1 U	1 U	**14**	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND
Tetrahydrofuran	µg/L	50	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA
Toluene	µg/L	5	0.89 J	0.59 J	0.57 J	ND	ND	0.22 U	1 U	1 U	1 U	ND	ND	0.22 U	1 U	1 U	1 U	ND	ND
Total VOCs	µg/L	--	NA	NA	NA	593	545	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	77	31
trans-1,2-Dichloroethene	µg/L	5	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND	0.17 UJ	1 U	1 U	1 U	ND	ND
Trichloroethene	µg/L	5	1 U	1 U	1 U	**55**	**37**	0.96 J	0.30 J	0.62 J	0.50 J	ND	ND	0.19 U	1 U	1 U	1 U	0.9	0.8
Vinyl chloride	µg/L	2	2 UJ	2 U	2 U	ND	ND	0.59 J	2 UJ	2 U	2 U	ND	ND	0.21 U	2 U	2 U	2 U	**32**	**12**
Dissolved Gases																			
Ethane	µg/L	--	NA	NA	NA	ND	23	0.028	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA	ND	22
Ethene	ug/L	--	NA	NA	NA	ND	ND	0.0068 J	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND	470
Methane	ug/L	--	NA	NA	NA	ND	7100	8.1	NA	NA	NA	ND	2.9	0.030 U	NA	NA	NA	ND	5200
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
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	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
Perfluorobutanoic acid (PFBA)	ng/L	--	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
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	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
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	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
Perfluorononanoic acid (PFNA)	ng/L	--	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
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	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
Perfluoropentanoic acid (PFPeA)	ng/L	--	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
Total Perfluoroalkylated substances (PFASs)	ng/L	--	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.
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ND - Not detected.
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Summary of Groundwater Sampling Results
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-15BR 11/30/2022	MW-15BR 3/21/2023	MW-15BR 6/26/2023	MW-15BR 9/27/2023	MW-16 7/24/2019	MW-16 12/12/2019	MW-16 12/1/2022	MW-16 3/21/2023	MW-16 6/26/2023	MW-16 9/27/2023	MW-16BR 7/24/2019	MW-16BR 12/12/2019	MW-16BR 12/1/2022	MW-16BR 3/21/2023	MW-16BR 6/26/2023	MW-16BR 9/27/2023
Detected Volatile Organics																		
1,1,2-Trichloroethane	µg/L	1	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U	1 U	1 U
1,1-Dichloroethane	µg/L	5	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U	1 UJ	0.17 J
1,1-Dichloroethene	µg/L	5	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U	1 U	1 U
1,2-Dichloroethane	µg/L	0.6	0.31 UJ	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U	1 U	1 U
1,4-Dioxane	µg/L	--	21 U	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ	50 U	NA	NA	21 U	50 U	50 UJ	50 U
2-Butanone (MEK)	µg/L	50	1.6 U	20 U	20 U	20 U	ND	ND	1.6 U	20 U	20 U	20 U	ND	ND	1.6 U	20 U	20 U	20 U
Acetone	µg/L	50	2 U	50 U	3.7 J	3.8 J	ND	ND	2 U	50 U	4.0 J	50 U	ND	ND	2.1 J	50 U	3.6 J	50 U
Benzene	µg/L	1	**1.4**	1 U	0.41 J	0.42 J	ND	ND	0.2 U	1 U	0.50 J	1 U	ND	ND	0.2 U	1 U	**2.0**	**1.7**
Bromodichloromethane	µg/L	50	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U	ND	ND	0.18 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	µg/L	60	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U	ND	ND	1.4 U	5 U	5 U	5 U
Chlorodibromomethane	µg/L	50	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U	ND	ND	0.22 U	0.5 U	0.5 U	0.5 U
Chloroethane	µg/L	5	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U	2 U	2 U
Chloroform	µg/L	7	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U	2 U	2 U
Chloromethane	µg/L	5	0.52 U	2 U	2 U	2 U	ND	0.5	0.52 U	2 U	2 U	2 U	ND	0.5	0.52 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	µg/L	5	**43**	3.1	**5.3 J**	1.5	ND	ND	0.15 U	1 U	1 UJ	1 U	ND	ND	0.15 U	1 U	1 UJ	0.91 J
Cyclohexane	µg/L	--	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U
Dichloromethane	µg/L	5	0.23 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U	5 U	5 U
Diethyl ether	µg/L	--	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U	NA	NA
Di-isopropyl ether	µg/L	--	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA	NA	NA	0.13 U	0.5 U	NA	NA
Isopropylbenzene	µg/L	5	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U	1 U	1 U
Methyl Acetate	µg/L	--	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U	1 UJ	1 U
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U	ND	ND	1.1 U	10 U	10 U	10 U
Methylcyclohexane	µg/L	--	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U	1 U	1 U
Methyl-tert-butylether	µg/L	10	0.45 J	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U
tert-Butylbenzene	µg/L	5	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U	NA	NA
Tetrachloroethene	µg/L	5	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U
Tetrahydrofuran	µg/L	50	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U	NA	NA
Toluene	µg/L	5	0.22 U	1 U	1 U	0.39 J	ND	ND	0.22 U	1 U	1 U	1 U	ND	ND	0.22 U	1 U	1 U	1 U
Total VOCs	µg/L	--	NA	NA	NA	NA	ND	0.5	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA
trans-1,2-Dichloroethene	µg/L	5	0.17 UJ	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U	1 U	1 U
Trichloroethene	µg/L	5	2.0	0.97 J	0.77 J	1 U	ND	ND	0.52 J	1 U	1 U	1 U	ND	ND	0.19 U	1 U	1 U	1 U
Vinyl chloride	µg/L	2	**16**	2 U	2 U	1.6 J	ND	ND	0.21 U	2 U	2 U	2 U	ND	ND	0.21 U	2 U	2 U	2 U
Dissolved Gases																		
Ethane	µg/L	--	0.078	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA
Ethene	ug/L	--	0.039	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA
Methane	ug/L	--	4.2	NA	NA	NA	ND	ND	0.0012 U	NA	NA	NA	ND	ND	0.0012 U	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
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	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
Perfluorobutanoic acid (PFBA)	ng/L	--	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
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	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
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	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
Perfluorononanoic acid (PFNA)	ng/L	--	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
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10	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
Perfluoropentanoic acid (PFPeA)	ng/L	--	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
Total Perfluoroalkylated substances (PFASs)	ng/L	--	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
2023 Q3 Sampling
Brewerton Jack's Cleaners RA

NYSDEC SIte No. 734112

Location ID: / Date Collected:	Units	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	MW-17 7/24/2019	MW-17 12/13/2019	MW-17 12/1/2022	MW-17 3/21/2023	MW-17 6/26/2023	MW-17 9/27/2023	MW-17BR 7/24/2019	MW-17BR 12/13/2019	MW-17BR 12/1/2022	MW-17BR 3/21/2023	MW-17BR 6/26/2023	MW-17BR 9/27/2023	Equipment Blank 12/01/22	Equipment Blank 06/07/23	Equipment Blank 9/13/2023
Detected Volatile Organics																	
1,1,2-Trichloroethane	µg/L	1	ND	ND	0.18 U	1 U	1 U	1 U	ND	ND	0.18 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
1,1-Dichloroethane	µg/L	5	ND	ND	0.14 U	1 U	1 UJ	1 U	ND	ND	0.14 U	1 U [1 U]	1 UJ	1 U [1 U]	NA	NA	NA
1,1-Dichloroethene	µg/L	5	ND	ND	0.14 U	1 U	1 U	1 U	ND	ND	0.14 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
1,2-Dichloroethane	µg/L	0.6	ND	ND	0.31 U	1 U	1 U	1 U	ND	ND	0.31 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
1,4-Dioxane	µg/L	--	NA	NA	21 U	50 UJ	50 UJ	50 U	NA	NA	21 U	50 U [50 U]	50 UJ	50 U [50 U]	NA	NA	NA
2-Butanone (MEK)	µg/L	50	ND	ND	1.6 U	20 U	20 U	20 U	ND	ND	1.6 U	20 U [20 U]	20 U	20 U [20 U]	NA	NA	NA
Acetone	µg/L	50	ND	ND	2 U	50 U	3.8 J	4.8 J	ND	ND	2 U	50 U [50 U]	3.9 J	50 U [50 U]	NA	NA	NA
Benzene	µg/L	1	ND	ND	0.2 U	1 U	0.44 J	0.37 J	ND	ND	0.2 U	1 U [1 U]	**1.0**	1 U [1 U]	NA	NA	NA
Bromodichloromethane	µg/L	50	ND	ND	0.18 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]	NA	NA	NA
Carbon Disulfide	µg/L	60	ND	ND	1.4 U	5 U	5 U	5 U	ND	0.6	1.4 U	5 U [5 U]	5 U	5 U [5 U]	NA	NA	NA
Chlorodibromomethane	µg/L	50	ND	ND	0.22 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]	NA	NA	NA
Chloroethane	µg/L	5	ND	ND	0.32 U	2 U	2 U	2 U	ND	ND	0.32 U	2 U [2 U]	2 U	2 U [2 U]	NA	NA	NA
Chloroform	µg/L	7	ND	ND	0.17 U	2 U	2 U	2 U	ND	ND	0.17 U	2 U [2 U]	2 U	2 U [2 U]	NA	NA	NA
Chloromethane	µg/L	5	ND	ND	0.52 U	2 U	2 U	2 U	ND	ND	0.52 U	2 U [2 U]	2 U	2 U [2 U]	NA	NA	NA
cis-1,2-Dichloroethene	µg/L	5	ND	ND	0.15 U	1 U	1 UJ	1 U	ND	ND	0.15 U	1 U [1 U]	1 UJ	1 U [1 U]	NA	NA	NA
Cyclohexane	µg/L	--	ND	ND	NA	NA	5 U	5 U	ND	ND	NA	NA	5 U	5 U [5 U]	NA	NA	NA
Dichloromethane	µg/L	5	ND	ND	0.23 U	5 U	5 U	5 U	ND	ND	0.23 U	5 U [5 U]	5 U	5 U [5 U]	NA	NA	NA
Diethyl ether	µg/L	--	NA	NA	0.18 U	2 U	NA	NA	NA	NA	0.18 U	2 U [2 U]	NA	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 [0.5 UJ	NA	NA	NA	NA	NA
Isopropylbenzene	µg/L	5	ND	ND	0.11 U	1 U	1 U	1 U	ND	ND	0.11 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
Methyl Acetate	µg/L	--	ND	ND	0.45 U	1 U	1 UJ	1 U	ND	ND	0.45 U	1 U [1 U]	1 UJ	1 U [1 U]	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	50	ND	ND	1.1 U	10 UJ	10 U	10 U	ND	ND	1.1 U	10 U [10 U]	10 U	10 U [10 U]	NA	NA	NA
Methylcyclohexane	µg/L	--	ND	ND	0.24 U	1 U	1 U	1 U	ND	ND	0.24 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
Methyl-tert-butylether	µg/L	10	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
tert-Butylbenzene	µg/L	5	NA	NA	0.13 U	1 U	NA	NA	NA	NA	0.13 U	1 U [1 U]	NA	NA	NA	NA	NA
Tetrachloroethene	µg/L	5	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U [0.40 J]	1 U	1 U [1 U]	NA	NA	NA
Tetrahydrofuran	µg/L	50	NA	NA	0.49 U	10 U	NA	NA	NA	NA	0.49 U	10 U [10 U]	NA	NA	NA	NA	NA
Toluene	µg/L	5	ND	ND	0.22 U	1 U	1 U	1 U	ND	ND	0.22 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
Total VOCs	µg/L	--	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	µg/L	5	ND	ND	0.17 U	1 U	1 U	1 U	ND	ND	0.17 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
Trichloroethene	µg/L	5	ND	ND	0.19 U	1 U	1 U	1 U	ND	ND	0.19 U	1 U [1 U]	1 U	1 U [1 U]	NA	NA	NA
Vinyl chloride	µg/L	2	ND	ND	0.21 U	2 U	2 U	2 U	ND	ND	0.21 U	2 U [2 U]	2 U	2 UJ [2 UJ]	NA	NA	NA
Dissolved Gases																	
Ethane	µg/L	--	ND	ND	0.0026 U	NA	NA	NA	ND	ND	0.0026 U	NA	NA	NA	NA	NA	NA
Ethene	ug/L	--	ND	ND	0.003 U	NA	NA	NA	ND	ND	0.003 U	NA	NA	NA	NA	NA	NA
Methane	ug/L	--	ND	ND	0.0012 U	NA	NA	NA	ND	ND	0.0012 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	1.59 U	0.37 J	0.95 U
N-Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.9 U	0.95 U
Perfluorobutane sulfonic acid (PFBS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.26 J	0.95 U
Perfluorobutanoic acid (PFBA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.36 U	1.6 J	1.8 J
Perfluorodecanoic acid (PFDA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.47 J	0.95 U
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.9 U	0.95 U
Perfluoroheptanoic acid (PFHpA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.68 J	0.95 U
Perfluorohexane sulfonic acid (PFHxS)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.61 J	0.95 U
Perfluorohexanoic acid (PFHxA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	1.0	0.95 U
Perfluorononanoic acid (PFNA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.50 J	0.95 U
Perfluorooctane sulfonamide (PFOSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.35 J	0.95 U
Perfluorooctane sulfonic acid (PFOS)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	**31**	0.95 U
Perfluorooctanoic acid (PFOA)	ng/L	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	3.3	0.95 U
Perfluoropentane sulfonic acid (PFPeSA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.9 U	0.95 U
Perfluoropentanoic acid (PFPeA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.18 U	1.5 J	1.9 U
Perfluoroundecanoic acid (PFUdA)	ng/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.59 U	0.9 U	0.95 U
Total Perfluoroalkylated substances (PFASs)	ng/L	--	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 4
Proposed 2023 Q4 Sampling
Brewerton Jack's Cleaners RA

NYSDEC Site No. 734112

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

Notes:
(a) Sampled using passive diffusion bags.

APPENDIX A

Field Sampling Logs

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. _____ Well ID IW-25

Date 9-13-23

Project Name/Location: Braceton Jacks

Weather 75 Sunny

Well Material X PVC ___ SS

Measuring Pt. Description TIC

Screen Setting (ft-bmp) –

Casing Diameter (in.) 2"

Static Water Level (ft-bmp) 1.32

Total Depth (ft-bmp) 18.90

Water Column/ Gallons in Well 17.58 / 2.86

MP Elevation –

Pump Intake (ft-bmp) ~16.0'

Purge Method: Peri

Centrifugal ___

Submersible ___

Other ___

Sample Method: Low Flow

Pump On/Off 0855/

Volumes Purged –

Sample Time: Label 0955 Start ___ End ___

Replicate/ Code No. –

Sampled by DRM

PID: 0.0

Water Quality Meter Type and ID: Horiba U52

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) mS/cm +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0900	5	200	1.35	1	6.63	1.06	152	0.57	16.80	-98	Cloudy	None
0905	10	200	1.38	2	6.69	1.20	131	0.42	16.10	-112		
0910	15	200	1.40	3	6.73	1.31	106	0.31	15.32	-124		
0915	20	200	1.41	4	6.74	1.43	84	6.28	14.94	-129		
0920	25	200	1.42	5	6.80	1.59	71	0.26	14.76	-136		
0925	30	200	1.42	6	6.83	1.61	60	0.23	14.73	-140		
0930	35	200	1.42	7	6.87	1.63	52	0.22	14.70	-144		
0935	40	200	1.42	8	6.90	1.65	40.3	0.21	14.68	-148		
0940	45	200	1.42	9	6.87	1.61	31.6	0.18	14.80	-147	Clear	
0945	50	200	1.42	10	6.89	1.63	30.1	0.17	14.84	-149		
0950	55	200	1.42	11	6.91	1.62	29.4	0.16	14.87	-150		

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
PFAS 1633	125 + 500 plastic	3	None

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 chippy container

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Y

Well Locked at Departure: Y

Key Number To Well: 2527

6/30/2017

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. _____ Well ID MW-2

Date 9-13-23

Project Name/Location: Brewster Jacks

Weather 95° Sunny

Well Material ✓ PVC ___ SS

Measuring Pt. Description TIC

Screen Setting (ft-bmp) —

Casing Diameter (in.) 2"

Static Water Level (ft-bmp) 2.44

Total Depth (ft-bmp) 14.15

Water Column/ Gallons in Well 11.71/1.90

MP Elevation —

Pump Intake (ft-bmp) ~12.0'

Purge Method: Peri

Centrifugal ___

Submersible ___

Other ___

Sample Method: Low Flow

Pump On/Off 1000/1105

Volumes Purged _____

Sample Time: Label 1100 Start ___ End ___

Replicate/ Code No. DUP. 091323

Sampled by DM

PID: 0.0

Water Quality Meter Type and ID: Horiba U52

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1005	5	200	2.46	1	7.26	3.81	27.4	0.64	18.47	-90	Clear	None
1010	10	200	2.48	2	7.31	3.83	23.6	0.52	18.91	-87		
1015	15	200	2.49	3	7.34	3.84	18.7	0.45	18.93	-83		
1020	20	200	2.50	4	7.37	3.84	14.1	0.41	19.12	-82		
1025	25	200	2.50	5	7.40	3.85	12.1	0.33	19.22	-81		
1030	30	200	2.50	6	7.41	3.86	10.4	0.32	19.25	-90		
1035	35	200	2.50	7	7.43	3.88	8.2	0.31	19.29	-94		
1040	40	200	2.50	8	7.45	3.89	6.1	0.36	19.34	-89		
1045	45	200	2.50	9	7.48	3.90	5.4	0.31	19.36	-86		
1050	50	200	2.50	10	7.51	3.91	5.1	0.30	19.39	-84		
1055	55	200	2.50	11	7.53	3.91	4.8	0.29	13.41	-81		

Constituents Sampled	Container	Number	Preservative
VOC 8260	40 mL VOA	2	HCl
~~PFAS~~ 1633	125 mL + 2x500mL	3	None

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: _____

Condition of Well: _____

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. _____ Well ID MW-8 Date 9.17.23

Project Name/Location: Brewerton Jacks Cleaners Weather 70s, Overcast

Measuring Pt. Description: TOC Screen Setting (ft-bmp): _____ Casing Diameter (in.): 2 Well Material: ✓ PVC ___ SS

Static Water Level (ft-bmp): 5.68 Total Depth (ft-bmp): _____ Water Column/ Gallons in Well: _____

MP Elevation: _____ Pump Intake (ft-bmp): _____ Purge Method: Peri pump Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1205/1230 Volumes Purged: _____

Sample Time: Label 1225 Start 1220 End 1230 Replicate/ Code No.: MS/MSD Sampled by: KB

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ gal Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1130	0	—	5.68	0	7.04	0.328	29.5	1.34	18.91	-106	clear	None
1135	5	200	6.03	0.3	7.84	0.341	20.4	1.03	19.02	-51	"	"
1140	10	200	6.19	0.6	7.21	0.320	14.8	0.95	19.06	-33	"	"
1145	15	200	6.27	0.9	6.51	0.308	10.2	0.84	19.10	-15	"	"
1150	20	200	6.34	1.2	6.49	0.310	6.7	0.67	19.40	-1	"	"
1155	25	200	6.42	1.5	6.44	0.318	5.1	0.60	19.47	7	"	"
1200	30	200	6.45	1.8	6.42	0.316	4.8	0.54	19.56	19	"	"
1205	35	200	6.48	2.1	6.42	0.315	4.6	0.39	19.55	25	"	"
1210	40	200	6.49	2.4	6.42	0.314	4.4	0.34	19.55	29	"	"
1215	45	200	6.50	2.7	6.42	0.311	4.3	0.34	19.58	33	"	"
1220	50	200	6.52	3.0	6.43	0.310	4.3	0.33	19.61	37	"	"
1225	Sample											

Constituents Sampled	Container	Number	Preservative
PFAS 1633	2500mL + 2 125mL Plastic	3	—

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: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: ✓

Well Locked at Departure: ✓

Key Number To Well: —

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No. _____ Well ID TW-31 Date 9-13-23

Project Name/Location: Brewerton Jacks cleaners Weather 70s, overcast

Measuring Pt. Description: TOC Screen Setting (ft-bmp): _____ Casing Diameter (in.): 2 Well Material: ✓ PVC ___ SS

Static Water Level (ft-bmp): 5.17 Total Depth (ft-bmp): _____ Water Column/ Gallons in Well: _____

MP Elevation: _____ Pump Intake (ft-bmp): _____ Purge Method: Peri Centrifugal ___ Submersible ___ Other ___ Sample Method: Low Flow

Pump On/Off: 1015 / 1115 Volumes Purged: _____

Sample Time: Label 1110 Start 1105 End 1115 Replicate/ Code No. _____ Sampled by KB

PID: 0.0 Water Quality Meter Type and ID: Horiba 14159

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	Liters Purged (gal)	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1015	0	-	5.17	0.0	7.72	0.821	102	0.80	16.38	-177	clear	none
1020	5	200	5.49	0.3	7.30	0.783	82.3	0.63	16.97	-154	"	"
1025	10	200	5.67	0.6	6.94	0.758	44.3	0.52	17.44	-128	"	"
1030	15	200	5.84	0.7	6.71	0.717	8.8	0.40	17.82	-197	"	"
1035	20	200	6.06	1.2	6.71	0.710	6.1	0.33	18.08	-199	"	"
1040	25	200	6.37	1.5	6.71	0.706	5.5	0.29	18.36	-201	"	"
1045	30	200	6.48	1.8	6.71	0.701	5.0	0.28	18.49	-202	"	"
1050	35	200	6.55	2.1	6.71	0.699	4.2	0.27	18.73	-202	"	"
1055	40	200	6.57	2.4	6.71	0.698	3.6	0.27	18.889	-203	"	"
1100	45	200	6.56	2.7	6.72	0.698	3.6	0.27	18.94	-204	"	"
1105	50	200	6.58	3.0	6.72	0.696	3.4	0.26	18.99	-204	"	"
1110	Sample											

Constituents Sampled	Container	Number	Preservative
PFAS, 1633	2 500mL + 1 125mL Plastic	3	-
~~8260~~ 624.1 VOCs	40mL VOA	2	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: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: ✓

Well Locked at Departure: ✓

Key Number To Well: -

ARCADIS

Groundwater Sampling Form

Page 1 of 1

Project No.: _____ Well ID: IW-19 Date: 9-13-23

Project Name/Location: Brewerton Suits Cleaners Weather: 70s, overcast

Measuring Pt. Description: TOC Screen Setting (ft-bmp): _____ Casing Diameter (in.): 2.0 Well Material: ✓ PVC ___ SS

Static Water Level (ft-bmp): 2.33 Total Depth (ft-bmp): 22.46 Water Column/ Gallons in Well: 20.13/3.28

MP Elevation: _____ Pump Intake (ft-bmp): ~18 Purge Method: Peri-pump Sample Method: Low Flow

Pump On/Off: 0855/1005 Volumes Purged: 1.10 Centrifugal _____ Submersible _____ Other _____

Sample Time: Label 1000 Start ~~0855~~ End ~~1005~~ Replicate/ Code No. _____ Sampled by KB

PID: 0.0 Water Quality Meter Type and ID: Horiba M159.

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ Gal Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
0855	0	-	2.33	0.0	8.80	3.17	27.4	1.20	17.15	-179	LBrown	None
0900	5	200	2.77	0.3	8.71	3.14	18.4	0.89	16.44	-182	LBrown	None
0905	10	200	3.19	0.6	8.43	3.09	11.1	0.70	15.88	-182	Clear	None
0910	15	200	3.56	0.9	8.29	3.06	84.3	0.65	15.42	-190	Clear	None
0915	20	200	3.80	1.2	7.93	2.98	61.5	0.69	15.01	-191	Clear	None
0920	25	200	3.83	1.5	7.66	3.00	44.3	0.64	14.67	-184	Clear	None
0925	30	200	3.89	1.8	7.21	3.01	41.9	0.61	14.38	-186	Clear	None
0930	35	200	3.84	2.1	7.07	3.01	31.3	0.61	14.00	-181	Clear	None
0935	40	200	3.80	2.4	6.94	3.02	26.5	0.61	13.88	-189	Clear	None
0940	45	200	3.79	2.7	6.90	3.00	23.7	0.62	13.79	-186	Clear	None
0945	50	200	3.79	3.0	6.91	2.99	23.1	0.62	13.78	-186	Clear	None
0950	55	200	3.79	3.3	6.90	2.99	22.8	0.62	13.74	-187	Clear	None
0955	60	200	3.79	3.6	6.88	2.98	22.4	0.62	13.76	-184	Clear	None
1000	Sample											

Constituents Sampled	Container	Number	Preservative
PFAs 1633	2 500 mL + 1 250mL Plastic	3	None

Well Casing Volumes

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

Well Information

Well Location: Brewerton, NY

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes

Well Locked at Departure: Yes

Key Number To Well: 2537

6/30/2017

ARCADIS

Groundwater Sampling Form

Project No. _____ Well ID MW-5 Date 9-13-23

Project Name/Location: Brewerton Jacks Cleaners Weather 70s, overcast

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

Static Water Level (ft-bmp) 4.62 Total Depth (ft-bmp) _____ Water Column/ Gallons in Well _____

MP Elevation _____ Pump Intake (ft-bmp) _____ Purge Method: Per. pump Sample Method: Low Flow

Centrifugal _____ Submersible _____ Other _____

Pump On/Off 1110/1210 Volumes Purged _____

Sample Time: Label 1205 Start 1200 End 1210 Replicate/ Code No. - Sampled by KB

PID: 0.0 Water Quality Meter Type and ID: Horiba

Time	Minutes Elapsed	Rate (mL/min)	Depth to Water (ft)	~~Liters~~ gal Purged	pH +/- 0.1	Cond. (µS/cm) (mS/cm) +/- 3%	Turbidity (NTU) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Temp. (°C) +/- 10%	Redox (mV) +/- 10%	Appearance Color	Appearance Odor
1110	0	—	4.62	0.3	8.03	0.659	80.8	1.17	21.05	-72	clear	mod
1115	5	200	4.62	0.6	7.60	0.615	69.2	0.13	20.71	-141	"	"
1120	10	200	4.62	0.9	7.58	0.605	28.2	0.02	20.90	-134	"	"
1125	15	200	4.62	1.2	7.56	0.597	15.7	0.00	21.05	-129	"	"
1130	20	200	4.62	1.5	7.58	0.584	6.5	0.00	21.38	-136	"	"
1135	25	200	4.63	1.8	7.59	0.572	3.6	0.00	21.64	-145	"	"
1140	30	200	4.63	2.1	7.58	0.569	3.4	0.00	21.70	-145	"	"
1145	35	200	4.63	2.4	7.58	0.564	3.0	0.00	21.72	-146	"	"
1150	40	200	4.63	2.7	7.58	0.564	2.7	0.00	21.75	-148	"	"
1155	45	200	4.63	3.0	7.58	0.562	2.1	0.00	21.83	-148	"	"
1200	50	200	4.63	3.3	7.58	0.561	2.0	0.00	21.90	-149	"	"
1205	Sample											

Constituents Sampled	Container	Number	Preservative
PFAs 1633	250mL + 125mL plastic	3	-
8260 VOA	40mL Vial	2	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: Brewerton, NY

Condition of Well: Good

Well Completion: ~~Flush Mount~~ / Stick Up

Well Locked at Arrival: ✓

Well Locked at Departure: ✓

Key Number To Well: -

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

September 20, 2023

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: 23I1607

Enclosed are results of analyses for samples as received by the laboratory on September 14, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

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

REPORT DATE: 9/20/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I1607

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
IW-25	23I1607-01	Ground Water		SW-846 8260D	
MW-2	23I1607-02	Ground Water		SW-846 8260D	
IW-31	23I1607-03	Ground Water		SW-846 8260D	
MW-5	23I1607-04	Ground Water		SW-846 8260D	
TRIP BLANK	23I1607-05	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:

L-02

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

Analyte & Samples(s) Qualified:

Methyl Acetate
B351969-BS1, B351969-BSD1, S093557-CCV1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23I1607-01[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:

Bromomethane
23I1607-01[IW-25], 23I1607-02[MW-2], 23I1607-03[IW-31], 23I1607-04[MW-5], 23I1607-05[TRIP BLANK], B351969-BLK1, B351969-BS1, B351969-BSD1, S093557-CCV1

Chloromethane
23I1607-01[IW-25], 23I1607-02[MW-2], 23I1607-03[IW-31], 23I1607-04[MW-5], 23I1607-05[TRIP BLANK], B351969-BLK1, B351969-BS1, B351969-BSD1, S093557-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
23I1607-01[IW-25], 23I1607-02[MW-2], 23I1607-03[IW-31], 23I1607-04[MW-5], 23I1607-05[TRIP BLANK], B351969-BLK1, B351969-BS1, B351969-BSD1, S093557-CCV1

Chloromethane
23I1607-01[IW-25], 23I1607-02[MW-2], 23I1607-03[IW-31], 23I1607-04[MW-5], 23I1607-05[TRIP BLANK], B351969-BLK1, B351969-BS1, B351969-BSD1, S093557-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

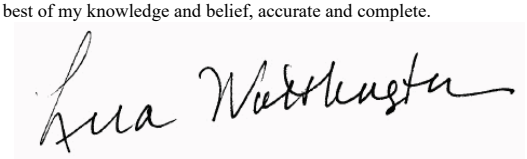
Analyte & Samples(s) Qualified:

Acetone
23I1607-02[MW-2], 23I1607-03[IW-31], 23I1607-04[MW-5], B351969-BS1, B351969-BSD1, S093557-CCV1

Carbon Disulfide
B351969-BS1, B351969-BSD1, S093557-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.



Lisa A. Worthington
Technical Representative

con-test® 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: 23I1607

Date Received: 9/14/2023

Field Sample #: IW-25 | Sampled: 9/13/2023 09:55

Sample ID: 23I1607-01

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	9/14/23	9/18/23 16:57	EEH
Benzene	ND	10	1.8	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Bromochloromethane	ND	10	2.8	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Bromodichloromethane	ND	5.0	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Bromoform	ND	10	4.1	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Bromomethane	ND	20	13	µg/L	10	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 16:57	EEH
2-Butanone (MEK)	ND	200	17	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Carbon Disulfide	ND	50	16	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Chlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Chlorodibromomethane	ND	5.0	2.0	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Chloroethane	ND	20	3.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Chloroform	ND	20	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Chloromethane	ND	20	5.0	µg/L	10	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Cyclohexane	ND	50	18	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.5	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2-Dibromoethane (EDB)	ND	5.0	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,3-Dichlorobenzene	ND	10	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,4-Dichlorobenzene	ND	10	1.3	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2-Dichloroethane	ND	10	3.0	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,1-Dichloroethylene	ND	10	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
cis-1,2-Dichloroethylene	950	10	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
trans-1,2-Dichloroethylene	8.0	10	1.7	µg/L	10	J	SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2-Dichloropropane	ND	10	1.9	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
trans-1,3-Dichloropropene	ND	5.0	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,4-Dioxane	ND	500	180	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Ethylbenzene	ND	10	2.2	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
2-Hexanone (MBK)	ND	100	12	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Isopropylbenzene (Cumene)	ND	10	1.5	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Methyl Acetate	ND	10	6.1	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Methyl Cyclohexane	ND	10	1.6	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Methylene Chloride	ND	50	1.8	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Styrene	ND	10	1.5	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	1.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Tetrachloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Toluene	ND	10	2.2	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2,3-Trichlorobenzene	ND	50	3.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,2,4-Trichlorobenzene	ND	10	3.0	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: IW-25 | Sampled: 9/13/2023 09:55

Sample ID: 23I1607-01

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
1,1,1-Trichloroethane	ND	10	1.5	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,1,2-Trichloroethane	ND	10	1.9	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Trichloroethylene	8.2	10	1.7	µg/L	10	J	SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Trichlorofluoromethane (Freon 11)	ND	20	1.5	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.1	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Vinyl Chloride	170	20	2.4	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH
Xylenes (total)	ND	10	10	µg/L	10		SW-846 8260D	9/14/23	9/18/23 16:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	113	70-130		9/18/23 16:57	
Toluene-d8	105	70-130		9/18/23 16:57	
4-Bromofluorobenzene	103	70-130		9/18/23 16:57	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: MW-2 | Sampled: 9/13/2023 11:00

Sample ID: 23I1607-02

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	2.5	50	2.0	µg/L	1	V-35, J	SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 14:12	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Chloroform	0.30	2.0	0.14	µg/L	1	J	SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
cis-1,2-Dichloroethylene	0.97	1.0	0.14	µg/L	1	J	SW-846 8260D	9/14/23	9/18/23 14:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Tetrachloroethylene	16	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: MW-2 | Sampled: 9/13/2023 11:00

Sample ID: 23I1607-02

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Trichloroethylene	1.6	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		9/18/23 14:12
Toluene-d8	105	70-130		9/18/23 14:12
4-Bromofluorobenzene	103	70-130		9/18/23 14:12

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: IW-31 | Sampled: 9/13/2023 01:10

Sample ID: 23I1607-03

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	3.0	50	2.0	µg/L	1	V-35, J	SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 14:40	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
cis-1,2-Dichloroethylene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: IW-31 | Sampled: 9/13/2023 01:10

Sample ID: 23I1607-03

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Trichloroethylene	0.19	1.0	0.17	µg/L	1	J	SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Vinyl Chloride	0.68	2.0	0.24	µg/L	1	J	SW-846 8260D	9/14/23	9/18/23 14:40	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/14/23	9/18/23 14:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	117	70-130		9/18/23 14:40	
Toluene-d8	105	70-130		9/18/23 14:40	
4-Bromofluorobenzene	103	70-130		9/18/23 14:40	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: MW-5 | Sampled: 9/13/2023 12:05

Sample ID: 23I1607-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.7	50	2.0	µg/L	1	V-35, J	SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 15:07	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH

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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: 23I1607

Date Received: 9/14/2023

Field Sample #: MW-5 | Sampled: 9/13/2023 12:05

Sample ID: 23I1607-04

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/14/23	9/18/23 15:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		9/18/23 15:07
Toluene-d8	107	70-130		9/18/23 15:07
4-Bromofluorobenzene	103	70-130		9/18/23 15:07

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: TRIP BLANK | Sampled: 9/13/2023 00:00

Sample ID: 23I1607-05

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	9/14/23	9/18/23 12:23	EEH
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Bromomethane	ND	2.0	1.3	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 12:23	EEH
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Chloromethane	ND	2.0	0.50	µg/L	1	V-05, V-34	SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1607

Date Received: 9/14/2023

Field Sample #: TRIP BLANK | Sampled: 9/13/2023 00:00

Sample ID: 23I1607-05

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/14/23	9/18/23 12:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		9/18/23 12:23
Toluene-d8	105	70-130		9/18/23 12:23
4-Bromofluorobenzene	102	70-130		9/18/23 12:23

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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
23I1607-01 [IW-25]	B351969	0.5	5.00	09/14/23
23I1607-02 [MW-2]	B351969	5	5.00	09/14/23
23I1607-03 [IW-31]	B351969	5	5.00	09/14/23
23I1607-04 [MW-5]	B351969	5	5.00	09/14/23
23I1607-05 [TRIP BLANK]	B351969	5	5.00	09/14/23

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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 B351969 - SW-846 5030B										
Blank (B351969-BLK1)				Prepared: 09/14/23 Analyzed: 09/18/23						
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							V-05, V-34
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05, V-34
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							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	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							
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							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	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 B351969 - SW-846 5030B											
Blank (B351969-BLK1)				Prepared: 09/14/23 Analyzed: 09/18/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/L	25.0		114	70-130				
Surrogate: Toluene-d8	*26.3*		µg/L	25.0		105	70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130				
LCS (B351969-BS1)				Prepared: 09/14/23 Analyzed: 09/18/23							
Acetone	103	50	µg/L	100		103	70-160			V-35	†
Benzene	10.3	1.0	µg/L	10.0		103	70-130				
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130				
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130				
Bromoform	9.91	1.0	µg/L	10.0		99.1	70-130				
Bromomethane	8.31	2.0	µg/L	10.0		83.1	40-160			V-05, V-34	†
2-Butanone (MEK)	119	20	µg/L	100		119	40-160				†
Carbon Disulfide	99.3	5.0	µg/L	100		99.3	70-130			V-35	
Carbon Tetrachloride	11.8	5.0	µg/L	10.0		118	70-130				
Chlorobenzene	9.96	1.0	µg/L	10.0		99.6	70-130				
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130				
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130				
Chloroform	10.0	2.0	µg/L	10.0		100	70-130				
Chloromethane	6.89	2.0	µg/L	10.0		68.9	40-160			V-05, V-34	†
Cyclohexane	10.6	5.0	µg/L	10.0		106	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111	70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130				
1,2-Dichlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130				
1,3-Dichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130				
1,4-Dichlorobenzene	9.47	1.0	µg/L	10.0		94.7	70-130				
Dichlorodifluoromethane (Freon 12)	9.49	2.0	µg/L	10.0		94.9	40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130				
1,2-Dichloroethane	9.28	1.0	µg/L	10.0		92.8	70-130				
1,1-Dichloroethylene	8.86	1.0	µg/L	10.0		88.6	70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130				
trans-1,2-Dichloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130				
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130				
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130				
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130				
1,4-Dioxane	118	50	µg/L	100		118	40-130				†
Ethylbenzene	9.63	1.0	µg/L	10.0		96.3	70-130				
2-Hexanone (MBK)	115	10	µg/L	100		115	70-160				†
Isopropylbenzene (Cumene)	9.92	1.0	µg/L	10.0		99.2	70-130				
Methyl Acetate	13.1	1.0	µg/L	10.0		**131**	* 70-130			L-02	
Methyl tert-Butyl Ether (MTBE)	11.8	1.0	µg/L	10.0		118	70-130				
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130				
Methylene Chloride	8.90	5.0	µg/L	10.0		89.0	70-130				
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113	70-160				†
Styrene	10.1	1.0	µg/L	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130				
Tetrachloroethylene	9.34	1.0	µg/L	10.0		93.4	70-130				
Toluene	9.55	1.0	µg/L	10.0		95.5	70-130				
1,2,3-Trichlorobenzene	9.58	5.0	µg/L	10.0		95.8	70-130				
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130				
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	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 B351969 - SW-846 5030B												
LCS (B351969-BS1)				Prepared: 09/14/23 Analyzed: 09/18/23								
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130				
Trichloroethylene	9.13	1.0	µg/L	10.0		91.3		70-130				
Trichlorofluoromethane (Freon 11)	9.53	2.0	µg/L	10.0		95.3		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.98	1.0	µg/L	10.0		99.8		70-130				
Vinyl Chloride	8.77	2.0	µg/L	10.0		87.7		40-160				†
m+p Xylene	19.6	2.0	µg/L	20.0		98.1		70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101		70-130				
Xylenes (total)	29.7	1.0	µg/L	30.0		99.1		0-200				
Surrogate: 1,2-Dichloroethane-d4	*27.8*		µg/L	25.0		111		70-130				
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		70-130				
LCS Dup (B351969-BSD1)				Prepared: 09/14/23 Analyzed: 09/18/23								
Acetone	103	50	µg/L	100		103		70-160	0.524	25	V-35	†
Benzene	10.2	1.0	µg/L	10.0		102		70-130	0.293	25		
Bromochloromethane	11.4	1.0	µg/L	10.0		114		70-130	0.526	25		
Bromodichloromethane	10.5	0.50	µg/L	10.0		105		70-130	2.90	25		
Bromoform	10.0	1.0	µg/L	10.0		100		70-130	1.20	25		
Bromomethane	9.39	2.0	µg/L	10.0		93.9		40-160	12.2	25	V-05, V-34	†
2-Butanone (MEK)	115	20	µg/L	100		115		40-160	3.95	25		†
Carbon Disulfide	99.6	5.0	µg/L	100		99.6		70-130	0.312	25	V-35	
Carbon Tetrachloride	11.7	5.0	µg/L	10.0		117		70-130	0.341	25		
Chlorobenzene	10.0	1.0	µg/L	10.0		100		70-130	0.700	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107		70-130	0.842	25		
Chloroethane	10.2	2.0	µg/L	10.0		102		70-130	1.28	25		
Chloroform	9.90	2.0	µg/L	10.0		99.0		70-130	1.40	25		
Chloromethane	7.46	2.0	µg/L	10.0		74.6		40-160	7.94	25	V-05, V-34	†
Cyclohexane	10.6	5.0	µg/L	10.0		106		70-130	0.00	25		
1,2-Dibromo-3-chloropropane (DBCP)	11.0	5.0	µg/L	10.0		110		70-130	0.998	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	1.53	25		
1,2-Dichlorobenzene	9.66	1.0	µg/L	10.0		96.6		70-130	0.413	25		
1,3-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1		70-130	0.303	25		
1,4-Dichlorobenzene	9.75	1.0	µg/L	10.0		97.5		70-130	2.91	25		
Dichlorodifluoromethane (Freon 12)	9.78	2.0	µg/L	10.0		97.8		40-160	3.01	25		†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101		70-130	1.08	25		
1,2-Dichloroethane	9.43	1.0	µg/L	10.0		94.3		70-130	1.60	25		
1,1-Dichloroethylene	8.93	1.0	µg/L	10.0		89.3		70-130	0.787	25		
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130	0.395	25		
trans-1,2-Dichloroethylene	9.35	1.0	µg/L	10.0		93.5		70-130	0.214	25		
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101		70-130	0.797	25		
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111		70-130	2.47	25		
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130	2.61	25		
1,4-Dioxane	120	50	µg/L	100		120		40-130	1.73	50		† ‡
Ethylbenzene	10.0	1.0	µg/L	10.0		100		70-130	3.87	25		
2-Hexanone (MBK)	115	10	µg/L	100		115		70-160	0.0693	25		†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103		70-130	3.37	25		
Methyl Acetate	13.8	1.0	µg/L	10.0		**138**	*	70-130	5.21	25	L-02	
Methyl tert-Butyl Ether (MTBE)	11.9	1.0	µg/L	10.0		119		70-130	0.675	25		
Methyl Cyclohexane	9.99	1.0	µg/L	10.0		99.9		70-130	1.69	25		
Methylene Chloride	9.07	5.0	µg/L	10.0		90.7		70-130	1.89	25		
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100		114		70-160	1.58	25		†
Styrene	10.5	1.0	µg/L	10.0		105		70-130	3.89	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 B351969 - SW-846 5030B										
LCS Dup (B351969-BSD1)				Prepared: 09/14/23 Analyzed: 09/18/23						
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130	4.55	25	
Tetrachloroethylene	9.51	1.0	µg/L	10.0		95.1	70-130	1.80	25	
Toluene	9.81	1.0	µg/L	10.0		98.1	70-130	2.69	25	
1,2,3-Trichlorobenzene	9.54	5.0	µg/L	10.0		95.4	70-130	0.418	25	
1,2,4-Trichlorobenzene	9.61	1.0	µg/L	10.0		96.1	70-130	2.85	25	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	0.00	25	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.11	25	
Trichloroethylene	9.49	1.0	µg/L	10.0		94.9	70-130	3.87	25	
Trichlorofluoromethane (Freon 11)	9.52	2.0	µg/L	10.0		95.2	70-130	0.105	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.97	1.0	µg/L	10.0		99.7	70-130	0.100	25	
Vinyl Chloride	8.79	2.0	µg/L	10.0		87.9	40-160	0.228	25	†
m+p Xylene	20.1	2.0	µg/L	20.0		100	70-130	2.27	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	1.57	25	
Xylenes (total)	30.4	1.0	µg/L	30.0		101	0-200	2.03		
Surrogate: 1,2-Dichloroethane-d4	*28.1*		µg/L	25.0		112	70-130			
Surrogate: Toluene-d8	*26.2*		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	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).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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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
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
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,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
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
Trichloroethylene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	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	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

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RM

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis
Address: One Lincoln Centre 110 West Fayette St.
Phone: 315-992-0568
Project Name: Brewerton Jacobs
Project Location: Brewerton, NY
Project Number: 30135043
Project Manager: Stefan Bagnato
Pace Analytical Quote Name/Number: CO-145616 Order # 2308444
Invoice Recipient: Bill NYS DEC
Sampled By: D. Pleasure

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: stefan.bagnato@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	ASP DEC TCL 8260	PFAS 1633	MS/MSD for PFAS	# of Containers	Preservation Code	Container Code
								2	3		2	3	
								H	I		H	I	
								V	P		V	P	
1	IW-25	9-13-23	0955		X	GW		X	X				
	IW-19	9-13-23	1000		X	GW			X				
2	MW-2	9-13-23	1106		X	GW		X	X				
3	IW-31	9-13-23	1110		X	GW		X	X				
	MW-8	9-13-23	1225		X	GW			X	X			
4	MW-5	9-13-23	1205		X	GW		X	X				
	DUP-091323	9-13-23	—		X	GW			X				
	EB-091323	9-13-23	1245		X	GW			X				
5	TRIP BLANK							X					

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
- ASP Cat B Deliverables
- Arcadis EQuIS 4 File EDDs

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

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

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 9-13-23/1315	
Received by: (signature)	Date/Time: 9-13-23 1315	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 9/14/23 711	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 ~~Tonawanda~~ Jacks

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location Brewerton, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LA 9/14/23 711

Back-Sheet By / Date / Time LA 9/14/23 827

Temperature Method GUN # 5

Temp ☑ < 6° C. Actual Temperature 3.0

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	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers																				
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL																					
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL																					
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl				2		1	1															
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other / Fill in																				

Qualtrax ID: 120836

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October 9, 2023

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: 23I1609

Enclosed are results of analyses for samples as received by the laboratory on September 14, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

REPORT DATE: 10/9/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I1609

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
IW-25	23I1609-01	Ground Water		Draft Method 1633	
IW-18	23I1609-02	Ground Water		Draft Method 1633	
MW-2	23I1609-03	Ground Water		Draft Method 1633	
IW-31	23I1609-04	Ground Water		Draft Method 1633	
MW-8	23I1609-05	Ground Water		Draft Method 1633	
MW-5	23I1609-06	Ground Water		Draft Method 1633	
DUP-091323	23I1609-07	Ground Water		Draft Method 1633	
EB-091323	23I1609-08	Ground Water		Draft Method 1633	

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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.

Draft Method 1633

Qualifications:

MS-12

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

Analyte & Samples(s) Qualified:

Perfluorobutanesulfonic acid (PFBS)
23I1609-05[MW-8], B352020-MS2, B352020-MSD2

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Perfluorohexanesulfonic acid (PFHxS)
23I1609-05[MW-8], B352020-MSD2

Z-01

Extracted internal standard outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
B352020-MRL1

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
B352020-MRL1

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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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-25 | Sampled: 9/13/2023 09:55

Sample ID: 23I1609-01

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)	16	3.5	1.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoropentanoic acid (PFPeA)	33	1.8	0.31	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorohexanoic acid (PFHxA)	18	0.89	0.19	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoroheptanoic acid (PFHpA)	4.3	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorooctanoic acid (PFOA)	13	0.89	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorononanoic acid (PFNA)	1.3	0.89	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorodecanoic acid (PFDA)	0.34	0.89	0.16	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.89	0.22	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorobutanesulfonic acid (PFBS)	2.3	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.83	0.89	0.21	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.9	0.89	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.41	0.89	0.27	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorooctanesulfonic acid (PFOS)	28	0.89	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.89	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.89	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.62	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.87	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.96	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.89	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.89	0.37	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.89	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.89	0.39	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.89	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	8.9	2.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.9	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.93	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.61	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.75	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.5	0.86	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.9	1.6	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	9.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	44	7.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.43	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-25 | Sampled: 9/13/2023 09:55

Sample ID: 23I1609-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.77	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:07	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	55.4	10-130		10/3/23 16:07
13C5-PFPeA	73.1	35-150		10/3/23 16:07
13C5-PFHxA	75.7	55-150		10/3/23 16:07
13C4-PFHpA	77.5	55-150		10/3/23 16:07
13C8-PFOA	75.5	60-140		10/3/23 16:07
13C9-PFNA	75.2	55-140		10/3/23 16:07
13C6-PFDA	70.0	50-140		10/3/23 16:07
13C7-PFUnA	65.6	30-140		10/3/23 16:07
13C2-PFDoA	64.7	10-150		10/3/23 16:07
13C2-PFTeDA	59.7	10-130		10/3/23 16:07
13C3-PFBS	73.8	55-150		10/3/23 16:07
13C3-PFHxS	74.0	55-150		10/3/23 16:07
13C8-PFOS	71.2	45-140		10/3/23 16:07
13C2-4:2FTS	86.7	60-200		10/3/23 16:07
13C2-6:2FTS	83.0	60-200		10/3/23 16:07
13C2-8:2FTS	65.5	50-200		10/3/23 16:07
13C8-PFOSA	65.5	30-130		10/3/23 16:07
D3-NMeFOSA	57.0	15-130		10/3/23 16:07
D5-NEtFOSA	59.0	10-130		10/3/23 16:07
D3-NMeFOSAA	61.1	45-200		10/3/23 16:07
D5-NEtFOSAA	55.9	10-200		10/3/23 16:07
D7-NMeFOSE	60.2	10-150		10/3/23 16:07
D9-NEtFOSE	59.1	10-150		10/3/23 16:07
13C3-HFPO-DA	73.4	25-160		10/3/23 16:07

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-25 | Sampled: 9/13/2023 09:55

Sample ID: 23I1609-01

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		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-18 | Sampled: 9/13/2023 10:00

Sample ID: 23I1609-02

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)	18	8.2	3.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoropentanoic acid (PFPeA)	17	4.1	0.71	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorohexanoic acid (PFHxA)	13	2.1	0.44	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoroheptanoic acid (PFHpA)	5.2	2.1	0.52	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorooctanoic acid (PFOA)	11	2.1	0.46	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorononanoic acid (PFNA)	1.0	2.1	0.39	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorodecanoic acid (PFDA)	ND	2.1	0.38	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoroundecanoic acid (PFUnA)	ND	2.1	0.56	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorododecanoic acid (PFDoA)	ND	2.1	0.53	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	2.1	0.56	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	2.1	0.51	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorobutanesulfonic acid (PFBS)	7.6	2.1	0.53	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.7	2.1	0.49	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.3	2.1	0.42	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	0.63	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorooctanesulfonic acid (PFOS)	14	2.1	0.65	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorononanesulfonic acid (PFNS)	ND	2.1	0.60	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	2.1	0.64	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	2.1	0.55	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	8.2	1.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	8.2	2.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	8.2	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	2.1	0.63	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	2.1	0.85	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	2.1	0.63	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-MeFOSAA (NMeFOSAA)	ND	2.1	0.90	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-EtFOSAA (NEtFOSAA)	ND	2.1	0.45	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	21	5.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	21	5.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	8.2	2.1	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	8.2	1.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
9Cl-PF3ONS (F53B Minor)	ND	8.2	1.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
11Cl-PF3OUdS (F53B Major)	ND	8.2	2.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	21	3.7	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	100	21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	100	18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	4.1	1.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	4.1	1.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-18 | Sampled: 9/13/2023 10:00

Sample ID: 23I1609-02

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	4.1	0.83	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.1	1.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:22	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	37.4	10-130		10/3/23 16:22
13C5-PFPeA	69.7	35-150		10/3/23 16:22
13C5-PFHxA	76.2	55-150		10/3/23 16:22
13C4-PFHpA	75.6	55-150		10/3/23 16:22
13C8-PFOA	75.7	60-140		10/3/23 16:22
13C9-PFNA	74.1	55-140		10/3/23 16:22
13C6-PFDA	74.1	50-140		10/3/23 16:22
13C7-PFUnA	67.5	30-140		10/3/23 16:22
13C2-PFDoA	67.9	10-150		10/3/23 16:22
13C2-PFTeDA	52.8	10-130		10/3/23 16:22
13C3-PFBS	75.0	55-150		10/3/23 16:22
13C3-PFHxS	76.1	55-150		10/3/23 16:22
13C8-PFOS	74.5	45-140		10/3/23 16:22
13C2-4:2FTS	118	60-200		10/3/23 16:22
13C2-6:2FTS	99.7	60-200		10/3/23 16:22
13C2-8:2FTS	74.1	50-200		10/3/23 16:22
13C8-PFOSA	60.4	30-130		10/3/23 16:22
D3-NMeFOSA	55.8	15-130		10/3/23 16:22
D5-NEtFOSA	57.0	10-130		10/3/23 16:22
D3-NMeFOSAA	72.1	45-200		10/3/23 16:22
D5-NEtFOSAA	75.6	10-200		10/3/23 16:22
D7-NMeFOSE	62.3	10-150		10/3/23 16:22
D9-NEtFOSE	59.5	10-150		10/3/23 16:22
13C3-HFPO-DA	67.3	25-160		10/3/23 16:22

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-18 | Sampled: 9/13/2023 10:00

Sample ID: 23I1609-02

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	66	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-2 | Sampled: 9/13/2023 11:00

Sample ID: 23I1609-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	18	3.5	1.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoropentanoic acid (PFPeA)	38	1.8	0.31	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorohexanoic acid (PFHxA)	22	0.89	0.19	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoroheptanoic acid (PFHpA)	10	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorooctanoic acid (PFOA)	22	0.89	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorononanoic acid (PFNA)	2.4	0.89	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorodecanoic acid (PFDA)	0.57	0.89	0.16	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.89	0.22	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorobutanesulfonic acid (PFBS)	4.1	0.89	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.6	0.89	0.21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorohexanesulfonic acid (PFHxS)	6.0	0.89	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.55	0.89	0.27	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorooctanesulfonic acid (PFOS)	35	0.89	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.89	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.89	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.89	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.62	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.87	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.96	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.89	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.89	0.37	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.89	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.89	0.39	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.89	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	8.9	2.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.9	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.93	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.61	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.75	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.5	0.86	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.9	1.6	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	9.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	44	7.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.43	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-2 | Sampled: 9/13/2023 11:00

Sample ID: 23I1609-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.77	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:38	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	55.1	10-130		10/3/23 16:38
13C5-PFPeA	84.3	35-150		10/3/23 16:38
13C5-PFHxA	87.1	55-150		10/3/23 16:38
13C4-PFHpA	90.9	55-150		10/3/23 16:38
13C8-PFOA	84.1	60-140		10/3/23 16:38
13C9-PFNA	86.4	55-140		10/3/23 16:38
13C6-PFDA	83.2	50-140		10/3/23 16:38
13C7-PFUnA	74.2	30-140		10/3/23 16:38
13C2-PFDoA	74.5	10-150		10/3/23 16:38
13C2-PFTeDA	72.2	10-130		10/3/23 16:38
13C3-PFBS	87.4	55-150		10/3/23 16:38
13C3-PFHxS	88.3	55-150		10/3/23 16:38
13C8-PFOS	81.6	45-140		10/3/23 16:38
13C2-4:2FTS	104	60-200		10/3/23 16:38
13C2-6:2FTS	86.6	60-200		10/3/23 16:38
13C2-8:2FTS	72.3	50-200		10/3/23 16:38
13C8-PFOSA	76.6	30-130		10/3/23 16:38
D3-NMeFOSA	58.7	15-130		10/3/23 16:38
D5-NEtFOSA	60.8	10-130		10/3/23 16:38
D3-NMeFOSAA	74.5	45-200		10/3/23 16:38
D5-NEtFOSAA	74.7	10-200		10/3/23 16:38
D7-NMeFOSE	67.9	10-150		10/3/23 16:38
D9-NEtFOSE	66.7	10-150		10/3/23 16:38
13C3-HFPO-DA	83.1	25-160		10/3/23 16:38

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-2 | Sampled: 9/13/2023 11:00

Sample ID: 23I1609-03

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	42	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-31 | Sampled: 9/13/2023 11:10

Sample ID: 23I1609-04

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)	8.3	8.3	3.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoropentanoic acid (PFPeA)	9.6	4.1	0.72	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorohexanoic acid (PFHxA)	4.8	2.1	0.45	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoroheptanoic acid (PFHpA)	2.0	2.1	0.53	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorooctanoic acid (PFOA)	10	2.1	0.47	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorononanoic acid (PFNA)	2.0	2.1	0.40	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorodecanoic acid (PFDA)	ND	2.1	0.38	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoroundecanoic acid (PFUnA)	ND	2.1	0.57	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorododecanoic acid (PFDoA)	ND	2.1	0.53	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	2.1	0.56	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	2.1	0.52	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorobutanesulfonic acid (PFBS)	2.5	2.1	0.54	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.64	2.1	0.49	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.2	2.1	0.43	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	0.63	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorooctanesulfonic acid (PFOS)	53	2.1	0.66	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorononanesulfonic acid (PFNS)	ND	2.1	0.61	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	2.1	0.65	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	2.1	0.55	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	8.3	1.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	8.3	2.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	8.3	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	2.1	0.64	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	2.1	0.86	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	2.1	0.64	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-MeFOSAA (NMeFOSAA)	ND	2.1	0.91	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-EtFOSAA (NEtFOSAA)	ND	2.1	0.46	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	21	5.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	21	5.1	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	8.3	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	8.3	1.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
9Cl-PF3ONS (F53B Minor)	ND	8.3	1.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
11Cl-PF3OUdS (F53B Major)	ND	8.3	2.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	21	3.7	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	100	21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	100	18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	4.1	1.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	4.1	1.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-31 | Sampled: 9/13/2023 11:10

Sample ID: 23I1609-04

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	4.1	0.83	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.1	1.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 16:54	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	77.5	10-130		10/3/23 16:54
13C5-PFPeA	79.3	35-150		10/3/23 16:54
13C5-PFHxA	81.6	55-150		10/3/23 16:54
13C4-PFHpA	81.6	55-150		10/3/23 16:54
13C8-PFOA	79.3	60-140		10/3/23 16:54
13C9-PFNA	80.6	55-140		10/3/23 16:54
13C6-PFDA	81.9	50-140		10/3/23 16:54
13C7-PFUnA	75.9	30-140		10/3/23 16:54
13C2-PFDoA	75.6	10-150		10/3/23 16:54
13C2-PFTeDA	73.5	10-130		10/3/23 16:54
13C3-PFBS	79.5	55-150		10/3/23 16:54
13C3-PFHxS	80.6	55-150		10/3/23 16:54
13C8-PFOS	77.7	45-140		10/3/23 16:54
13C2-4:2FTS	89.5	60-200		10/3/23 16:54
13C2-6:2FTS	79.3	60-200		10/3/23 16:54
13C2-8:2FTS	68.4	50-200		10/3/23 16:54
13C8-PFOSA	71.7	30-130		10/3/23 16:54
D3-NMeFOSA	60.8	15-130		10/3/23 16:54
D5-NEtFOSA	61.3	10-130		10/3/23 16:54
D3-NMeFOSAA	71.7	45-200		10/3/23 16:54
D5-NEtFOSAA	71.7	10-200		10/3/23 16:54
D7-NMeFOSE	70.1	10-150		10/3/23 16:54
D9-NEtFOSE	68.5	10-150		10/3/23 16:54
13C3-HFPO-DA	75.0	25-160		10/3/23 16:54

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: IW-31 | Sampled: 9/13/2023 11:10

Sample ID: 23I1609-04

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	56	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-8 | Sampled: 9/13/2023 12:25

Sample ID: 23I1609-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.9	3.6	1.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoropentanoic acid (PFPeA)	2.0	1.8	0.32	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorohexanoic acid (PFHxA)	1.8	0.91	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoroheptanoic acid (PFHpA)	0.45	0.91	0.23	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorooctanoic acid (PFOA)	0.83	0.91	0.21	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorobutanesulfonic acid (PFBS)	5.9	0.91	0.24	ng/L	1	MS-12	Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.40	0.91	0.22	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.6	0.91	0.19	ng/L	1	MS-22	Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorooctanesulfonic acid (PFOS)	1.6	0.91	0.29	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.64	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.63	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.78	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-8 | Sampled: 9/13/2023 12:25

Sample ID: 23I1609-05

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	1.8	0.37	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:09	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.0	10-130		10/3/23 17:09
13C5-PFPeA	77.8	35-150		10/3/23 17:09
13C5-PFHxA	76.1	55-150		10/3/23 17:09
13C4-PFHpA	79.8	55-150		10/3/23 17:09
13C8-PFOA	73.2	60-140		10/3/23 17:09
13C9-PFNA	75.7	55-140		10/3/23 17:09
13C6-PFDA	76.5	50-140		10/3/23 17:09
13C7-PFUnA	66.1	30-140		10/3/23 17:09
13C2-PFDoA	62.5	10-150		10/3/23 17:09
13C2-PFTeDA	52.9	10-130		10/3/23 17:09
13C3-PFBS	76.6	55-150		10/3/23 17:09
13C3-PFHxS	77.7	55-150		10/3/23 17:09
13C8-PFOS	75.8	45-140		10/3/23 17:09
13C2-4:2FTS	69.1	60-200		10/3/23 17:09
13C2-6:2FTS	64.2	60-200		10/3/23 17:09
13C2-8:2FTS	62.6	50-200		10/3/23 17:09
13C8-PFOSA	70.5	30-130		10/3/23 17:09
D3-NMeFOSA	53.1	15-130		10/3/23 17:09
D5-NEtFOSA	51.1	10-130		10/3/23 17:09
D3-NMeFOSAA	66.4	45-200		10/3/23 17:09
D5-NEtFOSAA	61.2	10-200		10/3/23 17:09
D7-NMeFOSE	58.6	10-150		10/3/23 17:09
D9-NEtFOSE	55.2	10-150		10/3/23 17:09
13C3-HFPO-DA	79.1	25-160		10/3/23 17:09

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-8 | Sampled: 9/13/2023 12:25

Sample ID: 23I1609-05

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-5 | Sampled: 9/13/2023 12:05

Sample ID: 23I1609-06

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)	11	3.6	1.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoropentanoic acid (PFPeA)	11	1.8	0.31	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorohexanoic acid (PFHxA)	6.3	0.90	0.19	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoroheptanoic acid (PFHpA)	3.0	0.90	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorooctanoic acid (PFOA)	6.7	0.90	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorononanoic acid (PFNA)	0.54	0.90	0.17	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorodecanoic acid (PFDA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorobutanesulfonic acid (PFBS)	2.9	0.90	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.70	0.90	0.21	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.1	0.90	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorooctanesulfonic acid (PFOS)	1.7	0.90	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.62	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.88	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluorooctanesulfonamide (PFOSA)	0.29	0.90	0.27	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.39	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.76	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.1	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-5 | Sampled: 9/13/2023 12:05

Sample ID: 23I1609-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:25	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	39.9	10-130		10/3/23 17:25
13C5-PFPeA	72.9	35-150		10/3/23 17:25
13C5-PFHxA	75.5	55-150		10/3/23 17:25
13C4-PFHpA	80.3	55-150		10/3/23 17:25
13C8-PFOA	72.6	60-140		10/3/23 17:25
13C9-PFNA	74.0	55-140		10/3/23 17:25
13C6-PFDA	71.0	50-140		10/3/23 17:25
13C7-PFUnA	63.6	30-140		10/3/23 17:25
13C2-PFDoA	62.4	10-150		10/3/23 17:25
13C2-PFTeDA	58.1	10-130		10/3/23 17:25
13C3-PFBS	73.3	55-150		10/3/23 17:25
13C3-PFHxS	75.3	55-150		10/3/23 17:25
13C8-PFOS	72.4	45-140		10/3/23 17:25
13C2-4:2FTS	91.6	60-200		10/3/23 17:25
13C2-6:2FTS	86.0	60-200		10/3/23 17:25
13C2-8:2FTS	65.0	50-200		10/3/23 17:25
13C8-PFOSA	68.2	30-130		10/3/23 17:25
D3-NMeFOSA	51.9	15-130		10/3/23 17:25
D5-NEtFOSA	52.1	10-130		10/3/23 17:25
D3-NMeFOSAA	67.1	45-200		10/3/23 17:25
D5-NEtFOSAA	63.3	10-200		10/3/23 17:25
D7-NMeFOSE	54.1	10-150		10/3/23 17:25
D9-NEtFOSE	52.6	10-150		10/3/23 17:25
13C3-HFPO-DA	73.3	25-160		10/3/23 17:25

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: MW-5 | Sampled: 9/13/2023 12:05

Sample ID: 23I1609-06

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	18	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: DUP-091323 | Sampled: 9/13/2023 00:00

Sample ID: 23I1609-07

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)	18	3.5	1.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoropentanoic acid (PFPeA)	38	1.8	0.31	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorohexanoic acid (PFHxA)	23	0.88	0.19	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoroheptanoic acid (PFHpA)	9.5	0.88	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorooctanoic acid (PFOA)	23	0.88	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorononanoic acid (PFNA)	2.2	0.88	0.17	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorodecanoic acid (PFDA)	0.56	0.88	0.16	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.88	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.88	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.88	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.88	0.22	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorobutanesulfonic acid (PFBS)	5.8	0.88	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.8	0.88	0.21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorohexanesulfonic acid (PFHxS)	5.8	0.88	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.54	0.88	0.27	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorooctanesulfonic acid (PFOS)	36	0.88	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.88	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.88	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.88	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.62	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.87	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.96	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.88	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.88	0.37	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.88	0.27	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.88	0.39	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.88	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	8.8	2.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.8	2.2	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.92	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.61	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.75	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.5	0.85	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.8	1.6	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	9.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	44	7.8	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.43	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: DUP-091323 | Sampled: 9/13/2023 00:00

Sample ID: 23I1609-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.35	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.76	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:41	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	42.2	10-130		10/3/23 17:41
13C5-PFPeA	77.8	35-150		10/3/23 17:41
13C5-PFHxA	79.2	55-150		10/3/23 17:41
13C4-PFHpA	83.4	55-150		10/3/23 17:41
13C8-PFOA	79.2	60-140		10/3/23 17:41
13C9-PFNA	78.1	55-140		10/3/23 17:41
13C6-PFDA	75.2	50-140		10/3/23 17:41
13C7-PFUnA	65.4	30-140		10/3/23 17:41
13C2-PFDoA	61.9	10-150		10/3/23 17:41
13C2-PFTeDA	57.8	10-130		10/3/23 17:41
13C3-PFBS	76.1	55-150		10/3/23 17:41
13C3-PFHxS	79.1	55-150		10/3/23 17:41
13C8-PFOS	73.2	45-140		10/3/23 17:41
13C2-4:2FTS	92.5	60-200		10/3/23 17:41
13C2-6:2FTS	78.9	60-200		10/3/23 17:41
13C2-8:2FTS	63.4	50-200		10/3/23 17:41
13C8-PFOSA	69.6	30-130		10/3/23 17:41
D3-NMeFOSA	52.6	15-130		10/3/23 17:41
D5-NEtFOSA	51.4	10-130		10/3/23 17:41
D3-NMeFOSAA	68.1	45-200		10/3/23 17:41
D5-NEtFOSAA	66.8	10-200		10/3/23 17:41
D7-NMeFOSE	56.4	10-150		10/3/23 17:41
D9-NEtFOSE	54.5	10-150		10/3/23 17:41
13C3-HFPO-DA	79.9	25-160		10/3/23 17:41

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: DUP-091323 | Sampled: 9/13/2023 00:00

Sample ID: 23I1609-07

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	34	10	mg/L	1		Draft Method 1633	9/15/23	9/15/23 12:02	IS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: EB-091323 | Sampled: 9/13/2023 12:45

Sample ID: 23I1609-08

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)	1.8	3.8	1.4	ng/L	1	J	Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorooctanoic acid (PFOA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorononanoic acid (PFNA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.25	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.23	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.95	0.20	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.29	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.28	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.94	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.95	0.40	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.42	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.3	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	1.7	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	9.7	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: EB-091323 | Sampled: 9/13/2023 12:45

Sample ID: 23I1609-08

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	0.38	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.82	ng/L	1		Draft Method 1633	10/2/23	10/3/23 17:56	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	77.7	10-130		10/3/23 17:56
13C5-PFPeA	77.4	35-150		10/3/23 17:56
13C5-PFHxA	78.8	55-150		10/3/23 17:56
13C4-PFHpA	79.4	55-150		10/3/23 17:56
13C8-PFOA	74.5	60-140		10/3/23 17:56
13C9-PFNA	78.8	55-140		10/3/23 17:56
13C6-PFDA	75.0	50-140		10/3/23 17:56
13C7-PFUnA	69.3	30-140		10/3/23 17:56
13C2-PFDoA	70.3	10-150		10/3/23 17:56
13C2-PFTeDA	67.8	10-130		10/3/23 17:56
13C3-PFBS	76.6	55-150		10/3/23 17:56
13C3-PFHxS	77.5	55-150		10/3/23 17:56
13C8-PFOS	71.2	45-140		10/3/23 17:56
13C2-4:2FTS	62.7	60-200		10/3/23 17:56
13C2-6:2FTS	71.8	60-200		10/3/23 17:56
13C2-8:2FTS	72.9	50-200		10/3/23 17:56
13C8-PFOSA	65.2	30-130		10/3/23 17:56
D3-NMeFOSA	62.1	15-130		10/3/23 17:56
D5-NEtFOSA	64.7	10-130		10/3/23 17:56
D3-NMeFOSAA	74.1	45-200		10/3/23 17:56
D5-NEtFOSAA	72.8	10-200		10/3/23 17:56
D7-NMeFOSE	63.1	10-150		10/3/23 17:56
D9-NEtFOSE	64.9	10-150		10/3/23 17:56
13C3-HFPO-DA	79.2	25-160		10/3/23 17:56

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I1609

Date Received: 9/14/2023

Field Sample #: EB-091323 | Sampled: 9/13/2023 12:45

Sample ID: 23I1609-08

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	9/19/23	9/19/23 12:31	LL

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Sample Extraction Data

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633** **Leachates were extracted on 9/15/2023 per NO PREP in Batch B352036**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I1609-01 [IW-25]	B352020	564	5.00	10/02/23
23I1609-02 [IW-18]	B352020	243	5.00	10/02/23
23I1609-03 [MW-2]	B352020	565	5.00	10/02/23
23I1609-04 [IW-31]	B352020	241	5.00	10/02/23
23I1609-05 [MW-8]	B352020	548	5.00	10/02/23
23I1609-06 [MW-5]	B352020	558	5.00	10/02/23
23I1609-07 [DUP-091323]	B352020	566	5.00	10/02/23
23I1609-08 [EB-091323]	B352020	525	5.00	10/02/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I1609-01 [IW-25]	B352036	50.0	09/15/23
23I1609-02 [IW-18]	B352036	50.0	09/15/23
23I1609-03 [MW-2]	B352036	50.0	09/15/23
23I1609-04 [IW-31]	B352036	50.0	09/15/23
23I1609-05 [MW-8]	B352036	50.0	09/15/23
23I1609-06 [MW-5]	B352036	50.0	09/15/23
23I1609-07 [DUP-091323]	B352036	50.0	09/15/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I1609-08 [EB-091323]	B352389	50.0	09/19/23

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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 B352020 - Draft Method 1633										
Blank (B352020-BLK1)				Prepared: 10/02/23 Analyzed: 10/03/23						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl 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	*77.7*		ng/L	98.4		79.0	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 B352020 - Draft Method 1633										
Blank (B352020-BLK1)				Prepared: 10/02/23 Analyzed: 10/03/23						
Surrogate: 13C5-PFPeA	*38.6*		ng/L	49.2		78.4	35-150			
Surrogate: 13C5-PFHxA	*19.2*		ng/L	24.6		77.9	55-150			
Surrogate: 13C4-PFHpA	*19.8*		ng/L	24.6		80.5	55-150			
Surrogate: 13C8-PFOA	*19.7*		ng/L	24.6		79.9	60-140			
Surrogate: 13C9-PFNA	*9.58*		ng/L	12.3		77.9	55-140			
Surrogate: 13C6-PFDA	*9.47*		ng/L	12.3		77.0	50-140			
Surrogate: 13C7-PFUnA	*8.47*		ng/L	12.3		68.9	30-140			
Surrogate: 13C2-PFDoA	*8.82*		ng/L	12.3		71.7	10-150			
Surrogate: 13C2-PFTeDA	*8.18*		ng/L	12.3		66.5	10-130			
Surrogate: 13C3-PFBS	*19.0*		ng/L	24.6		77.3	55-150			
Surrogate: 13C3-PFHxS	*19.7*		ng/L	24.6		80.1	55-150			
Surrogate: 13C8-PFOS	*18.0*		ng/L	24.6		73.3	45-140			
Surrogate: 13C2-4:2FTS	*32.2*		ng/L	49.2		65.4	60-200			
Surrogate: 13C2-6:2FTS	*36.3*		ng/L	49.2		73.8	60-200			
Surrogate: 13C2-8:2FTS	*35.6*		ng/L	49.2		72.3	50-200			
Surrogate: 13C8-PFOSA	*17.1*		ng/L	24.6		69.6	30-130			
Surrogate: D3-NMeFOSA	*15.4*		ng/L	24.6		62.6	15-130			
Surrogate: D5-NEtFOSA	*16.1*		ng/L	24.6		65.5	10-130			
Surrogate: D3-NMeFOSAA	*34.1*		ng/L	49.2		69.3	45-200			
Surrogate: D5-NEtFOSAA	*33.7*		ng/L	49.2		68.5	10-200			
Surrogate: D7-NMeFOSE	*168*		ng/L	246		68.3	10-150			
Surrogate: D9-NEtFOSE	*167*		ng/L	246		67.8	10-150			
Surrogate: 13C3-HFPO-DA	*76.3*		ng/L	98.4		77.5	25-160			
LCS (B352020-BS1)				Prepared: 10/02/23 Analyzed: 10/03/23						
Perfluorobutanoic acid (PFBA)	126	3.9	ng/L	94.5		133	58-148			
Perfluoropentanoic acid (PFPeA)	62.6	2.0	ng/L	47.2		132	54-152			
Perfluorohexanoic acid (PFHxA)	31.8	0.98	ng/L	23.6		135	55-152			
Perfluoroheptanoic acid (PFHpA)	30.8	0.98	ng/L	23.6		131	54-154			
Perfluorooctanoic acid (PFOA)	31.2	0.98	ng/L	23.6		132	52-161			
Perfluorononanoic acid (PFNA)	31.0	0.98	ng/L	23.6		131	59-149			
Perfluorodecanoic acid (PFDA)	30.8	0.98	ng/L	23.6		130	52-147			
Perfluoroundecanoic acid (PFUnA)	32.1	0.98	ng/L	23.6		136	48-159			
Perfluorododecanoic acid (PFDoA)	31.3	0.98	ng/L	23.6		132	64-142			
Perfluorotridecanoic acid (PFTrDA)	31.7	0.98	ng/L	23.6		134	49-148			
Perfluorotetradecanoic acid (PFTeDA)	32.5	0.98	ng/L	23.6		138	47-161			
Perfluorobutanesulfonic acid (PFBS)	26.4	0.98	ng/L	21.0		126	62-144			
Perfluoropentanesulfonic acid (PFPeS)	29.0	0.98	ng/L	22.2		131	59-151			
Perfluorohexanesulfonic acid (PFHxS)	27.9	0.98	ng/L	21.6		129	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	30.5	0.98	ng/L	22.5		135	55-152			
Perfluorooctanesulfonic acid (PFOS)	27.5	0.98	ng/L	21.9		125	58-149			
Perfluorononanesulfonic acid (PFNS)	29.2	0.98	ng/L	22.7		129	52-148			
Perfluorodecanesulfonic acid (PFDS)	28.5	0.98	ng/L	22.8		125	51-147			
Perfluorododecanesulfonic acid (PFDoS)	27.2	0.98	ng/L	22.9		119	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	121	3.9	ng/L	88.6		137	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	120	3.9	ng/L	89.7		133	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	123	3.9	ng/L	90.9		135	63-152			
Perfluorooctanesulfonamide (PFOSA)	30.7	0.98	ng/L	23.6		130	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	30.2	0.98	ng/L	23.6		128	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 B352020 - Draft Method 1633										
LCS (B352020-BS1)				Prepared: 10/02/23 Analyzed: 10/03/23						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	29.6	0.98	ng/L	23.6		125	65-139			
N-MeFOSAA (NMeFOSAA)	29.9	0.98	ng/L	23.6		127	58-144			
N-EtFOSAA (NEtFOSAA)	30.6	0.98	ng/L	23.6		129	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	300	9.8	ng/L	236		127	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	303	9.8	ng/L	236		128	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	105	3.9	ng/L	94.5		111	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	96.1	3.9	ng/L	89.2		108	68-146			
9Cl-PF3ONS (F53B Minor)	99.0	3.9	ng/L	88.6		112	56-156			
11Cl-PF3OUdS (F53B Major)	97.0	3.9	ng/L	89.2		109	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	266	9.8	ng/L	236		113	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1380	49	ng/L	1180		117	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1330	49	ng/L	1180		113	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	49.4	2.0	ng/L	42.0		118	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	51.5	2.0	ng/L	47.2		109	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	54.5	2.0	ng/L	47.2		115	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	54.8	2.0	ng/L	47.2		116	48-161			
Surrogate: 13C4-PFBA	*69.5*		ng/L	98.4		70.6	10-130			
Surrogate: 13C5-PFPeA	*34.7*		ng/L	49.2		70.6	35-150			
Surrogate: 13C5-PFHxA	*17.3*		ng/L	24.6		70.3	55-150			
Surrogate: 13C4-PFHpA	*17.8*		ng/L	24.6		72.3	55-150			
Surrogate: 13C8-PFOA	*17.1*		ng/L	24.6		69.7	60-140			
Surrogate: 13C9-PFNA	*8.52*		ng/L	12.3		69.2	55-140			
Surrogate: 13C6-PFDA	*8.54*		ng/L	12.3		69.5	50-140			
Surrogate: 13C7-PFUnA	*7.88*		ng/L	12.3		64.1	30-140			
Surrogate: 13C2-PFDoA	*7.99*		ng/L	12.3		65.0	10-150			
Surrogate: 13C2-PFTeDA	*7.68*		ng/L	12.3		62.4	10-130			
Surrogate: 13C3-PFBS	*16.6*		ng/L	24.6		67.7	55-150			
Surrogate: 13C3-PFHxS	*16.9*		ng/L	24.6		68.7	55-150			
Surrogate: 13C8-PFOS	*16.5*		ng/L	24.6		67.2	45-140			
Surrogate: 13C2-4:2FTS	*31.5*		ng/L	49.2		64.0	60-200			
Surrogate: 13C2-6:2FTS	*34.7*		ng/L	49.2		70.6	60-200			
Surrogate: 13C2-8:2FTS	*34.0*		ng/L	49.2		69.1	50-200			
Surrogate: 13C8-PFOSA	*15.8*		ng/L	24.6		64.2	30-130			
Surrogate: D3-NMeFOSA	*14.6*		ng/L	24.6		59.2	15-130			
Surrogate: D5-NEtFOSA	*15.0*		ng/L	24.6		61.2	10-130			
Surrogate: D3-NMeFOSAA	*32.5*		ng/L	49.2		66.2	45-200			
Surrogate: D5-NEtFOSAA	*32.1*		ng/L	49.2		65.3	10-200			
Surrogate: D7-NMeFOSE	*155*		ng/L	246		63.1	10-150			
Surrogate: D9-NEtFOSE	*156*		ng/L	246		63.3	10-150			
Surrogate: 13C3-HFPO-DA	*70.0*		ng/L	98.4		71.1	25-160			
MRL Check (B352020-MRL1)				Prepared: 10/02/23 Analyzed: 10/03/23						
Perfluorobutanoic acid (PFBA)	8.86	3.9	ng/L	7.84		113	44-157			
Perfluoropentanoic acid (PFPeA)	4.24	2.0	ng/L	3.92		108	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 B352020 - Draft Method 1633										
MRL Check (B352020-MRL1)				Prepared: 10/02/23 Analyzed: 10/03/23						
Perfluorohexanoic acid (PFHxA)	2.01	0.98	ng/L	1.96		102	62-149			
Perfluoroheptanoic acid (PFHpA)	1.99	0.98	ng/L	1.96		102	56-150			
Perfluorooctanoic acid (PFOA)	2.14	0.98	ng/L	1.96		109	57-161			
Perfluorononanoic acid (PFNA)	1.96	0.98	ng/L	1.96		100	53-157			
Perfluorodecanoic acid (PFDA)	1.83	0.98	ng/L	1.96		93.4	43-158			
Perfluoroundecanoic acid (PFUnA)	1.91	0.98	ng/L	1.96		97.5	50-155			
Perfluorododecanoic acid (PFDoA)	1.96	0.98	ng/L	1.96		99.9	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.87	0.98	ng/L	1.96		95.4	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.01	0.98	ng/L	1.96		103	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.75	0.98	ng/L	1.74		101	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.78	0.98	ng/L	1.84		96.7	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.87	0.98	ng/L	1.79		104	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.93	0.98	ng/L	1.87		103	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.94	0.98	ng/L	1.82		107	43-162			
Perfluorononanesulfonic acid (PFNS)	1.87	0.98	ng/L	1.89		99.1	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.84	0.98	ng/L	1.89		97.2	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.78	0.98	ng/L	1.90		93.7	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.52	3.9	ng/L	7.35		102	52-158			Z-01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.76	3.9	ng/L	7.45		104	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.57	3.9	ng/L	7.55		114	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.90	0.98	ng/L	1.96		96.7	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.83	0.98	ng/L	1.96		93.3	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.74	0.98	ng/L	1.96		88.6	49-156			
N-MeFOSAA (NMeFOSAA)	2.01	0.98	ng/L	1.96		103	32-160			
N-EtFOSAA (NEtFOSAA)	1.87	0.98	ng/L	1.96		95.1	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.3	9.8	ng/L	19.6		98.4	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.4	9.8	ng/L	19.6		99.1	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.50	3.9	ng/L	7.84		95.7	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.75	3.9	ng/L	7.40		91.3	61-148			
9Cl-PF3ONS (F53B Minor)	6.96	3.9	ng/L	7.35		94.7	44-167			
11Cl-PF3OUdS (F53B Major)	6.48	3.9	ng/L	7.40		87.5	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.8	9.8	ng/L	19.6		95.8	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	91.0	49	ng/L	98.0		92.9	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	86.1	49	ng/L	98.0		87.8	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.60	2.0	ng/L	3.49		103	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.87	2.0	ng/L	3.92		98.7	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.81	2.0	ng/L	3.92		97.2	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.16	2.0	ng/L	3.92		106	47-160			
Surrogate: 13C4-PFBA	*67.5*		ng/L	98.0		68.8	10-130			
Surrogate: 13C5-PFPeA	*33.7*		ng/L	49.0		68.8	35-150			
Surrogate: 13C5-PFHxA	*16.9*		ng/L	24.5		68.8	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 B352020 - Draft Method 1633											
MRL Check (B352020-MRL1)				Prepared: 10/02/23 Analyzed: 10/03/23							
Surrogate: 13C4-PFHpA	*17.5*		ng/L	24.5		71.4		55-150			
Surrogate: 13C8-PFOA	*16.6*		ng/L	24.5		67.6		60-140			
Surrogate: 13C9-PFNA	*8.29*		ng/L	12.3		67.6		55-140			
Surrogate: 13C6-PFDA	*8.01*		ng/L	12.3		65.4		50-140			
Surrogate: 13C7-PFUnA	*7.51*		ng/L	12.3		61.3		30-140			
Surrogate: 13C2-PFDoA	*7.63*		ng/L	12.3		62.3		10-150			
Surrogate: 13C2-PFTeDA	*7.18*		ng/L	12.3		58.6		10-130			
Surrogate: 13C3-PFBS	*16.6*		ng/L	24.5		67.9		55-150			
Surrogate: 13C3-PFHxS	*16.8*		ng/L	24.5		68.7		55-150			
Surrogate: 13C8-PFOS	*16.2*		ng/L	24.5		66.0		45-140			
Surrogate: 13C2-4:2FTS	*28.5*		ng/L	49.0		**58.2**	*	60-200			Z-01
Surrogate: 13C2-6:2FTS	*31.8*		ng/L	49.0		65.0		60-200			
Surrogate: 13C2-8:2FTS	*31.1*		ng/L	49.0		63.4		50-200			
Surrogate: 13C8-PFOSA	*15.1*		ng/L	24.5		61.7		30-130			
Surrogate: D3-NMeFOSA	*13.6*		ng/L	24.5		55.5		15-130			
Surrogate: D5-NEtFOSA	*14.3*		ng/L	24.5		58.3		10-130			
Surrogate: D3-NMeFOSAA	*30.9*		ng/L	49.0		63.0		45-200			
Surrogate: D5-NEtFOSAA	*30.0*		ng/L	49.0		61.3		10-200			
Surrogate: D7-NMeFOSE	*153*		ng/L	245		62.3		10-150			
Surrogate: D9-NEtFOSE	*153*		ng/L	245		62.5		10-150			
Surrogate: 13C3-HFPO-DA	*68.4*		ng/L	98.0		69.7		25-160			
Matrix Spike (B352020-MS2)	**Source: 23I1609-05**			Prepared: 10/02/23 Analyzed: 10/03/23							
Perfluorobutanoic acid (PFBA)	132	3.8	ng/L	91.4	4.86	140		58-148			
Perfluoropentanoic acid (PFPeA)	65.2	1.9	ng/L	45.7	1.97	138		54-152			
Perfluorohexanoic acid (PFHxA)	35.9	0.95	ng/L	22.8	1.78	149		55-152			
Perfluoroheptanoic acid (PFHpA)	31.5	0.95	ng/L	22.8	0.446	136		54-154			
Perfluorooctanoic acid (PFOA)	34.2	0.95	ng/L	22.8	0.828	146		52-161			
Perfluorononanoic acid (PFNA)	30.7	0.95	ng/L	22.8	ND	134		59-149			
Perfluorodecanoic acid (PFDA)	30.1	0.95	ng/L	22.8	ND	132		52-147			
Perfluoroundecanoic acid (PFUnA)	31.0	0.95	ng/L	22.8	ND	136		48-159			
Perfluorododecanoic acid (PFDoA)	30.4	0.95	ng/L	22.8	ND	133		64-142			
Perfluorotridecanoic acid (PFTrDA)	29.2	0.95	ng/L	22.8	ND	128		49-148			
Perfluorotetradecanoic acid (PFTeDA)	30.7	0.95	ng/L	22.8	ND	134		47-161			
Perfluorobutanesulfonic acid (PFBS)	36.8	0.95	ng/L	20.3	5.87	**153**	*	62-144			MS-12
Perfluoropentanesulfonic acid (PFPeS)	28.0	0.95	ng/L	21.5	0.403	129		59-151			
Perfluorohexanesulfonic acid (PFHxS)	38.7	0.95	ng/L	20.9	9.56	139		57-146			
Perfluoroheptanesulfonic acid (PFHpS)	29.8	0.95	ng/L	21.8	ND	137		55-152			
Perfluorooctanesulfonic acid (PFOS)	29.3	0.95	ng/L	21.2	1.57	131		58-149			
Perfluorononanesulfonic acid (PFNS)	27.8	0.95	ng/L	22.0	ND	126		52-148			
Perfluorodecanesulfonic acid (PFDS)	25.5	0.95	ng/L	22.0	ND	116		51-147			
Perfluorododecanesulfonic acid (PFDoS)	22.9	0.95	ng/L	22.2	ND	104		36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120	3.8	ng/L	85.7	ND	140		67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	119	3.8	ng/L	86.8	ND	137		61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	122	3.8	ng/L	88.0	ND	138		63-152			
Perfluorooctanesulfonamide (PFOSA)	29.8	0.95	ng/L	22.8	ND	130		61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	29.1	0.95	ng/L	22.8	ND	127		63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	28.2	0.95	ng/L	22.8	ND	124		65-139			
N-MeFOSAA (NMeFOSAA)	30.0	0.95	ng/L	22.8	ND	131		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 B352020 - Draft Method 1633										
Matrix Spike (B352020-MS2)	**Source: 23I1609-05**			Prepared: 10/02/23 Analyzed: 10/03/23						
N-EtFOSAA (NEtFOSAA)	29.3	0.95	ng/L	22.8	ND	128	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	292	9.5	ng/L	228	ND	128	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	295	9.5	ng/L	228	ND	129	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	110	3.8	ng/L	91.4	ND	120	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	103	3.8	ng/L	86.2	ND	119	68-146			
9Cl-PF3ONS (F53B Minor)	104	3.8	ng/L	85.7	ND	122	56-156			
11Cl-PF3OUdS (F53B Major)	91.6	3.8	ng/L	86.2	ND	106	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	270	9.5	ng/L	228	ND	118	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1400	48	ng/L	1140	ND	123	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1340	48	ng/L	1140	ND	118	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	50.5	1.9	ng/L	40.7	ND	124	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	49.2	1.9	ng/L	45.7	ND	108	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	54.0	1.9	ng/L	45.7	ND	118	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	52.6	1.9	ng/L	45.7	ND	115	48-161			
Surrogate: 13C4-PFBA	*62.0*		ng/L	95.2		65.1	10-130			
Surrogate: 13C5-PFPeA	*31.7*		ng/L	47.6		66.6	35-150			
Surrogate: 13C5-PFHxA	*15.7*		ng/L	23.8		66.2	55-150			
Surrogate: 13C4-PFHpA	*16.6*		ng/L	23.8		69.7	55-150			
Surrogate: 13C8-PFOA	*15.9*		ng/L	23.8		67.0	60-140			
Surrogate: 13C9-PFNA	*7.73*		ng/L	11.9		65.0	55-140			
Surrogate: 13C6-PFDA	*7.76*		ng/L	11.9		65.2	50-140			
Surrogate: 13C7-PFUnA	*6.69*		ng/L	11.9		56.2	30-140			
Surrogate: 13C2-PFDoA	*6.68*		ng/L	11.9		56.1	10-150			
Surrogate: 13C2-PFTeDA	*6.02*		ng/L	11.9		50.6	10-130			
Surrogate: 13C3-PFBS	*16.0*		ng/L	23.8		67.1	55-150			
Surrogate: 13C3-PFHxS	*15.9*		ng/L	23.8		66.6	55-150			
Surrogate: 13C8-PFOS	*14.7*		ng/L	23.8		61.6	45-140			
Surrogate: 13C2-4:2FTS	*35.4*		ng/L	47.6		74.4	60-200			
Surrogate: 13C2-6:2FTS	*29.7*		ng/L	47.6		62.4	60-200			
Surrogate: 13C2-8:2FTS	*28.9*		ng/L	47.6		60.6	50-200			
Surrogate: 13C8-PFOSA	*14.0*		ng/L	23.8		59.0	30-130			
Surrogate: D3-NMeFOSA	*11.9*		ng/L	23.8		49.9	15-130			
Surrogate: D5-NEtFOSA	*11.5*		ng/L	23.8		48.5	10-130			
Surrogate: D3-NMeFOSAA	*26.4*		ng/L	47.6		55.5	45-200			
Surrogate: D5-NEtFOSAA	*25.3*		ng/L	47.6		53.2	10-200			
Surrogate: D7-NMeFOSE	*124*		ng/L	238		51.9	10-150			
Surrogate: D9-NEtFOSE	*120*		ng/L	238		50.5	10-150			
Surrogate: 13C3-HFPO-DA	*64.1*		ng/L	95.2		67.4	25-160			
Matrix Spike Dup (B352020-MSD2)	**Source: 23I1609-05**			Prepared: 10/02/23 Analyzed: 10/03/23						
Perfluorobutanoic acid (PFBA)	124	3.7	ng/L	88.5	4.86	135	58-148	6.56	20	
Perfluoropentanoic acid (PFPeA)	60.8	1.8	ng/L	44.3	1.97	133	54-152	7.02	20	
Perfluorohexanoic acid (PFHxA)	33.8	0.92	ng/L	22.1	1.78	144	55-152	6.24	25	
Perfluoroheptanoic acid (PFHpA)	29.5	0.92	ng/L	22.1	0.446	131	54-154	6.59	25	
Perfluorooctanoic acid (PFOA)	32.1	0.92	ng/L	22.1	0.828	141	52-161	6.38	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 B352020 - Draft Method 1633											
Matrix Spike Dup (B352020-MSD2)	**Source: 23I1609-05**			Prepared: 10/02/23 Analyzed: 10/03/23							
Perfluorononanoic acid (PFNA)	29.1	0.92	ng/L	22.1	ND	131		59-149	5.35	25	
Perfluorodecanoic acid (PFDA)	28.0	0.92	ng/L	22.1	ND	127		52-147	7.05	25	
Perfluoroundecanoic acid (PFUnA)	27.8	0.92	ng/L	22.1	ND	126		48-159	10.9	30	
Perfluorododecanoic acid (PFDoA)	29.2	0.92	ng/L	22.1	ND	132		64-142	4.17	25	
Perfluorotridecanoic acid (PFTrDA)	27.5	0.92	ng/L	22.1	ND	124		49-148	6.13	25	
Perfluorotetradecanoic acid (PFTeDA)	28.6	0.92	ng/L	22.1	ND	129		47-161	6.95	25	
Perfluorobutanesulfonic acid (PFBS)	34.5	0.92	ng/L	19.6	5.87	**146**	*	62-144	6.39	20	MS-12
Perfluoropentanesulfonic acid (PFPeS)	27.2	0.92	ng/L	20.8	0.403	129		59-151	2.92	25	
Perfluorohexanesulfonic acid (PFHxS)	39.7	0.92	ng/L	20.3	9.56	**149**	*	57-146	2.52	25	MS-22
Perfluoroheptanesulfonic acid (PFHpS)	27.9	0.92	ng/L	21.1	ND	132		55-152	6.51	25	
Perfluorooctanesulfonic acid (PFOS)	30.3	0.92	ng/L	20.5	1.57	140		58-149	3.36	20	
Perfluorononanesulfonic acid (PFNS)	26.6	0.92	ng/L	21.3	ND	125		52-148	4.62	25	
Perfluorodecanesulfonic acid (PFDS)	24.6	0.92	ng/L	21.4	ND	115		51-147	3.89	25	
Perfluorododecanesulfonic acid (PFDoS)	22.5	0.92	ng/L	21.5	ND	105		36-145	1.88	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114	3.7	ng/L	83.0	ND	137		67-146	5.67	25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	3.7	ng/L	84.1	ND	129		61-151	9.25	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116	3.7	ng/L	85.2	ND	137		63-152	4.40	30	
Perfluorooctanesulfonamide (PFOSA)	27.6	0.92	ng/L	22.1	ND	125		61-148	7.54	20	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	25.7	0.92	ng/L	22.1	ND	116		63-145	12.3	25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	26.5	0.92	ng/L	22.1	ND	120		65-139	6.46	25	
N-MeFOSAA (NMeFOSAA)	27.1	0.92	ng/L	22.1	ND	123		58-144	9.92	25	
N-EtFOSAA (NEtFOSAA)	27.1	0.92	ng/L	22.1	ND	123		59-146	7.58	25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	268	9.2	ng/L	221	ND	121		71-136	8.73	20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	269	9.2	ng/L	221	ND	122		69-137	9.29	25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	3.7	ng/L	88.5	ND	117		63-144	5.95	25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	97.5	3.7	ng/L	83.6	ND	117		68-146	5.03	20	
9Cl-PF3ONS (F53B Minor)	97.6	3.7	ng/L	83.0	ND	118		56-156	6.47	30	
11Cl-PF3OUdS (F53B Major)	85.6	3.7	ng/L	83.6	ND	102		46-156	6.80	35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	243	9.2	ng/L	221	ND	110		62-129	10.6	20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1270	46	ng/L	1110	ND	115		63-134	9.63	20	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1220	46	ng/L	1110	ND	110		50-138	9.69	25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	48.8	1.8	ng/L	39.4	ND	124		56-151	3.50	20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.3	1.8	ng/L	44.3	ND	107		51-145	3.82	25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	52.1	1.8	ng/L	44.3	ND	118		55-148	3.54	20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	51.5	1.8	ng/L	44.3	ND	116		48-161	2.15	35	
Surrogate: 13C4-PFBA	*60.3*		ng/L	92.2		65.3		10-130			
Surrogate: 13C5-PFPeA	*31.3*		ng/L	46.1		67.8		35-150			
Surrogate: 13C5-PFHxA	*15.4*		ng/L	23.1		66.9		55-150			
Surrogate: 13C4-PFHpA	*16.0*		ng/L	23.1		69.3		55-150			
Surrogate: 13C8-PFOA	*15.3*		ng/L	23.1		66.2		60-140			
Surrogate: 13C9-PFNA	*7.48*		ng/L	11.5		64.9		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 B352020 - Draft Method 1633										
Matrix Spike Dup (B352020-MSD2)		**Source: 23I1609-05**		Prepared: 10/02/23 Analyzed: 10/03/23						
Surrogate: 13C6-PFDA	*7.32*		ng/L	11.5		63.5	50-140			
Surrogate: 13C7-PFUnA	*6.55*		ng/L	11.5		56.8	30-140			
Surrogate: 13C2-PFDoA	*6.22*		ng/L	11.5		54.0	10-150			
Surrogate: 13C2-PFTeDA	*5.93*		ng/L	11.5		51.4	10-130			
Surrogate: 13C3-PFBS	*15.5*		ng/L	23.1		67.0	55-150			
Surrogate: 13C3-PFHxS	*15.3*		ng/L	23.1		66.4	55-150			
Surrogate: 13C8-PFOS	*14.9*		ng/L	23.1		64.4	45-140			
Surrogate: 13C2-4:2FTS	*33.6*		ng/L	46.1		72.9	60-200			
Surrogate: 13C2-6:2FTS	*29.4*		ng/L	46.1		63.8	60-200			
Surrogate: 13C2-8:2FTS	*28.1*		ng/L	46.1		61.0	50-200			
Surrogate: 13C8-PFOSA	*14.8*		ng/L	23.1		64.3	30-130			
Surrogate: D3-NMeFOSA	*12.6*		ng/L	23.1		54.6	15-130			
Surrogate: D5-NEtFOSA	*12.1*		ng/L	23.1		52.6	10-130			
Surrogate: D3-NMeFOSAA	*27.6*		ng/L	46.1		59.9	45-200			
Surrogate: D5-NEtFOSAA	*26.0*		ng/L	46.1		56.4	10-200			
Surrogate: D7-NMeFOSE	*134*		ng/L	231		58.0	10-150			
Surrogate: D9-NEtFOSE	*130*		ng/L	231		56.4	10-150			
Surrogate: 13C3-HFPO-DA	*62.0*		ng/L	92.2		67.3	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 B352036 - Draft Method 1633										
Blank (B352036-BLK1)				Prepared & Analyzed: 09/15/23						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B352036-BS1)				Prepared & Analyzed: 09/15/23						
Total Suspended Solids	197	5.0	mg/L	200		98.5	64.1-125			

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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).
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
Z-01	Extracted internal standard outside of control limits. Analyte is a known difficult 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
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

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

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

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23I1609

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Minneapolis, MN 55414

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RM

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	Arcadis
Address:	One Lincoln Centre 110 West Fayette St.
Phone:	315-992-0568
Project Name:	Brewerton Joebe
Project Location:	Brewerton, NY
Project Number:	30135043
Project Manager:	Stefan Bagnato
Pace Analytical Quote Name/Number:	CO-145616 Order # 2308444
Invoice Recipient:	Bill NYS DEC
Sampled By:	D. Meanor

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis
Fax To #:

| Pace Analytical Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code | ASP DEC RCL 8260 | PFAS 1633 | MS/MSD for PFAS | | |

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 Jacks

MCP/RCP Required N/A

Deliverable Package Requirement MA

Location Brewerton, NY

PWSID# (When Applicable) NY

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LA 9/14/23 711

Back-Sheet By / Date / Time LA 9/14/23 1542

Temperature Method Gun # 5

Temp ✓ ≤ 6° C Actual Temperature 3.8

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		250mL																				
Phosphoric																						
HCl																						
Unpreserved		100mL																				
Unpreserved	Plastics	1 Liter																				
Sulfuric																						
Unpreserved		500mL	2																			
Sulfuric																						
Unpreserved		250mL																				
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved	VOA Vials																					
HCl																						
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact																						
125-ML PLASTIC	Other / Fill in		1																			

Qualtrax ID: 120836

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October 10, 2023

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: 23I3729

Enclosed are results of analyses for samples as received by the laboratory on September 28, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

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

REPORT DATE: 10/10/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I3729

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-01R	23I3729-01	Ground Water		SW-846 8260D	
MW-7	23I3729-02	Ground Water		SW-846 8260D	
MW-9	23I3729-03	Ground Water		SW-846 8260D	
MW-12	23I3729-04	Ground Water		SW-846 8260D	
MW-13	23I3729-05	Ground Water		SW-846 8260D	
MW-14	23I3729-06	Ground Water		SW-846 8260D	
MW-14BR	23I3729-07	Ground Water		SW-846 8260D	
MW-15	23I3729-08	Ground Water		SW-846 8260D	
MW-15BR	23I3729-09	Ground Water		SW-846 8260D	
MW-16	23I3729-10	Ground Water		SW-846 8260D	
MW-16BR	23I3729-11	Ground Water		SW-846 8260D	
MW-17	23I3729-12	Ground Water		SW-846 8260D	
MW-17BR	23I3729-13	Ground Water		SW-846 8260D	
IW-1	23I3729-14	Ground Water		SW-846 8260D	
IW-2	23I3729-15	Ground Water		SW-846 8260D	
IW-3	23I3729-16	Ground Water		SW-846 8260D	
IW-7	23I3729-17	Ground Water		SW-846 8260D	
IW-11	23I3729-18	Ground Water		SW-846 8260D	
IW-14	23I3729-19	Ground Water		SW-846 8260D	
IW-17	23I3729-20	Ground 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.

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SW-846 8260D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Vinyl Chloride
23I3729-02[MW-7]

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-Dibromo-3-chloropropane (DBCP)
23I3729-01[MW-01R], B353593-MS1, B353593-MSD1

MS-12

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

Analyte & Samples(s) Qualified:

Vinyl Chloride
23I3729-01[MW-01R], B353593-MS1, B353593-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
B353593-MS1

1,2,4-Trichlorobenzene
B353593-MS1

cis-1,2-Dichloroethylene
B353593-MS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23I3729-05[MW-13]

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:

1,2,3-Trichlorobenzene
23I3729-13[MW-17BR], 23I3729-14[IW-1], 23I3729-15[IW-2], 23I3729-16[IW-3], 23I3729-17[IW-7], 23I3729-18[IW- 11], 23I3729-19[IW-14], 23I3729-20[IW-17], B353595-BLK1, B353595-BS1, B353595-BSD1, S094233-CCV1

1,2,4-Trichlorobenzene
23I3729-13[MW-17BR], 23I3729-14[IW-1], 23I3729-15[IW-2], 23I3729-16[IW-3], 23I3729-17[IW-7], 23I3729-18[IW- 11], 23I3729-19[IW-14], 23I3729-20[IW-17], B353595-BLK1, B353595-BS1, B353595-BSD1, S094233-CCV1

1,2-Dibromo-3-chloropropane (DBCP)
23I3729-01[MW-01R], 23I3729-02[MW-7], 23I3729-03[MW-9], 23I3729-04[MW-12], 23I3729-05[MW-13], 23I3729-06[MW-14], 23I3729-07[MW-14BR], 23I3729-08[MW-15], 23I3729-09[MW-15BR], 23I3729-10[MW-16], 23I3729- 11[MW-16BR], 23I3729-12[MW-17], 23I3729-13[MW-17BR], 23I3729-14[IW-1], 23I3729-15[IW-2], 23I3729-16[IW-3], 23I3729-17[IW-7], 23I3729-18[IW- 11], 23I3729-19[IW-14], 23I3729-20[IW-17], B353593-BLK1, B353593-BS1, B353593-BSD1, B353593-MS1, B353593-MSD1, B353595-BLK1, B353595-BS1, B353595-BSD1, S094225-CCV1, S094233-CCV1

V-06

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

Analyte & Samples(s) Qualified:

Vinyl Chloride
23I3729-01[MW-01R], 23I3729-02[MW-7], 23I3729-03[MW-9], 23I3729-05[MW-13]

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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

B353595-BS1, B353595-BSD1, S094233-CCV1

Vinyl Chloride

B353593-BS1, B353593-BSD1, B353593-MS1, B353593-MSD1, B353595-BS1, B353595-BSD1, S094225-CCV1, S094233-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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-01R | Sampled: 9/27/2023 08:45

Sample ID: 23I3729-01

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	10/2/23	10/2/23 11:10	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	MS-07A, V-05	SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,1-Dichloroethane	1.0	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
cis-1,2-Dichloroethylene	21	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Tetrachloroethylene	0.79	1.0	0.17	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-01R | Sampled: 9/27/2023 08:45

Sample ID: 23I3729-01

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Trichloroethylene	4.1	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Vinyl Chloride	11	2.0	0.24	µg/L	1	MS-12, V-06	SW-846 8260D	10/2/23	10/2/23 11:10	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.0	70-130		10/2/23 11:10
Toluene-d8	97.0	70-130		10/2/23 11:10
4-Bromofluorobenzene	88.6	70-130		10/2/23 11:10

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-7 | Sampled: 9/27/2023 09:50

Sample ID: 23I3729-02

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	4.1	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Benzene	0.45	1.0	0.18	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,1-Dichloroethylene	0.18	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
cis-1,2-Dichloroethylene	62	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
trans-1,2-Dichloroethylene	0.45	1.0	0.17	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-7 | Sampled: 9/27/2023 09:50

Sample ID: 23I3729-02

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Trichloroethylene	0.24	1.0	0.17	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Vinyl Chloride	240	2.0	0.24	µg/L	1	E, V-06	SW-846 8260D	10/2/23	10/2/23 11:36	MFF
Vinyl Chloride	210	40	4.7	µg/L	20		SW-846 8260D	10/3/23	10/6/23 17:34	LBD
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 11:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.1	70-130		10/6/23 17:34
1,2-Dichloroethane-d4	96.0	70-130		10/2/23 11:36
Toluene-d8	98.1	70-130		10/2/23 11:36
Toluene-d8	103	70-130		10/6/23 17:34
4-Bromofluorobenzene	105	70-130		10/6/23 17:34
4-Bromofluorobenzene	90.0	70-130		10/2/23 11:36

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-9 | Sampled: 9/27/2023 08:55

Sample ID: 23I3729-03

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	10/2/23	10/2/23 15:36	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,1-Dichloroethylene	0.66	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 15:36	MFF
cis-1,2-Dichloroethylene	180	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
trans-1,2-Dichloroethylene	2.3	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Tetrachloroethylene	14	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF

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

Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-9 | Sampled: 9/27/2023 08:55

Sample ID: 23I3729-03

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,1,2-Trichloroethane	0.32	1.0	0.19	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Trichloroethylene	100	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Vinyl Chloride	39	2.0	0.24	µg/L	1	V-06	SW-846 8260D	10/2/23	10/2/23 15:36	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.8	70-130		10/2/23 15:36
Toluene-d8	101	70-130		10/2/23 15:36
4-Bromofluorobenzene	86.8	70-130		10/2/23 15:36

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-12 | Sampled: 9/27/2023 10:15

Sample ID: 23I3729-04

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	4.3	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Chloroethane	11	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
cis-1,2-Dichloroethylene	1.2	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Toluene	0.32	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-12 | Sampled: 9/27/2023 10:15

Sample ID: 23I3729-04

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Trichloroethylene	0.93	1.0	0.17	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.6	70-130		10/2/23 12:03
Toluene-d8	99.2	70-130		10/2/23 12:03
4-Bromofluorobenzene	88.9	70-130		10/2/23 12:03

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-13 | Sampled: 9/27/2023 09:05

Sample ID: 23I3729-05

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	200	8.0	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Benzene	ND	4.0	0.74	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Bromochloromethane	ND	4.0	1.1	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Bromodichloromethane	ND	2.0	0.63	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Bromoform	ND	4.0	1.6	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Bromomethane	ND	8.0	5.3	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
2-Butanone (MEK)	ND	80	6.7	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Carbon Disulfide	ND	20	6.2	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Carbon Tetrachloride	ND	20	0.65	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Chlorobenzene	ND	4.0	0.48	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Chlorodibromomethane	ND	2.0	0.80	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Chloroethane	ND	8.0	1.4	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Chloroform	ND	8.0	0.56	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Chloromethane	ND	8.0	2.0	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Cyclohexane	ND	20	7.1	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	3.4	µg/L	4	V-05	SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2-Dibromoethane (EDB)	ND	2.0	0.64	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2-Dichlorobenzene	ND	4.0	0.52	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,3-Dichlorobenzene	ND	4.0	0.55	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,4-Dichlorobenzene	ND	4.0	0.51	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	8.0	0.64	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,1-Dichloroethane	ND	4.0	0.55	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2-Dichloroethane	ND	4.0	1.2	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,1-Dichloroethylene	1.0	4.0	0.56	µg/L	4	J	SW-846 8260D	10/2/23	10/2/23 16:02	MFF
cis-1,2-Dichloroethylene	370	4.0	0.56	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
trans-1,2-Dichloroethylene	5.6	4.0	0.69	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2-Dichloropropane	ND	4.0	0.77	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
cis-1,3-Dichloropropene	ND	2.0	0.65	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
trans-1,3-Dichloropropene	ND	2.0	0.57	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,4-Dioxane	ND	200	72	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Ethylbenzene	ND	4.0	0.88	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
2-Hexanone (MBK)	ND	40	4.8	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Isopropylbenzene (Cumene)	ND	4.0	0.60	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Methyl Acetate	ND	4.0	2.4	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Methyl tert-Butyl Ether (MTBE)	ND	4.0	0.68	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Methyl Cyclohexane	ND	4.0	0.62	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Methylene Chloride	ND	20	0.71	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	40	5.3	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Styrene	ND	4.0	0.60	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,1,2,2-Tetrachloroethane	ND	2.0	0.55	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Tetrachloroethylene	550	4.0	0.67	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Toluene	ND	4.0	0.89	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2,3-Trichlorobenzene	ND	20	1.4	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,2,4-Trichlorobenzene	ND	4.0	1.2	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-13 | Sampled: 9/27/2023 09:05

Sample ID: 23I3729-05

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
1,1,1-Trichloroethane	ND	4.0	0.60	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,1,2-Trichloroethane	ND	4.0	0.76	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Trichloroethylene	280	4.0	0.70	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Trichlorofluoromethane (Freon 11)	ND	8.0	0.62	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	0.83	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Vinyl Chloride	43	8.0	0.95	µg/L	4	V-06	SW-846 8260D	10/2/23	10/2/23 16:02	MFF
Xylenes (total)	ND	4.0	4.0	µg/L	4		SW-846 8260D	10/2/23	10/2/23 16:02	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.6	70-130		10/2/23 16:02
Toluene-d8	99.0	70-130		10/2/23 16:02
4-Bromofluorobenzene	85.2	70-130		10/2/23 16:02

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-14 | Sampled: 9/27/2023 09:35

Sample ID: 23I3729-06

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	5.2	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Benzene	1.7	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
cis-1,2-Dichloroethylene	0.22	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Toluene	0.57	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-14 | Sampled: 9/27/2023 09:35

Sample ID: 23I3729-06

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		10/2/23 12:30
Toluene-d8	102	70-130		10/2/23 12:30
4-Bromofluorobenzene	89.3	70-130		10/2/23 12:30

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-14BR | Sampled: 9/27/2023 09:30

Sample ID: 23I3729-07

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	4.5	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Benzene	0.49	1.0	0.18	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
cis-1,2-Dichloroethylene	0.92	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-14BR | Sampled: 9/27/2023 09:30

Sample ID: 23I3729-07

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Trichloroethylene	0.50	1.0	0.17	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 12:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.9	70-130		10/2/23 12:56
Toluene-d8	96.4	70-130		10/2/23 12:56
4-Bromofluorobenzene	89.3	70-130		10/2/23 12:56

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-15 | Sampled: 9/27/2023 11:00

Sample ID: 23I3729-08

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	4.8	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-15 | Sampled: 9/27/2023 11:00

Sample ID: 23I3729-08

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.5	70-130		10/2/23 13:22
Toluene-d8	98.0	70-130		10/2/23 13:22
4-Bromofluorobenzene	85.2	70-130		10/2/23 13:22

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-15BR | Sampled: 9/27/2023 10:55

Sample ID: 23I3729-09

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	3.8	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Benzene	0.42	1.0	0.18	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
cis-1,2-Dichloroethylene	1.5	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Toluene	0.39	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-15BR | Sampled: 9/27/2023 10:55

Sample ID: 23I3729-09

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Vinyl Chloride	1.6	2.0	0.24	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 13:49	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 13:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.9	70-130		10/2/23 13:49
Toluene-d8	97.7	70-130		10/2/23 13:49
4-Bromofluorobenzene	87.0	70-130		10/2/23 13:49

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-16 | Sampled: 9/27/2023 10:40

Sample ID: 23I3729-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-16 | Sampled: 9/27/2023 10:40

Sample ID: 23I3729-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.8	70-130		10/2/23 14:16
Toluene-d8	101	70-130		10/2/23 14:16
4-Bromofluorobenzene	85.6	70-130		10/2/23 14:16

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-16BR | Sampled: 9/27/2023 10:35

Sample ID: 23I3729-11

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	10/2/23	10/2/23 14:42	MFF
Benzene	1.7	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,1-Dichloroethane	0.17	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
cis-1,2-Dichloroethylene	0.91	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 14:42	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-16BR | Sampled: 9/27/2023 10:35

Sample ID: 23I3729-11

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 14:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.4	70-130		10/2/23 14:42
Toluene-d8	96.7	70-130		10/2/23 14:42
4-Bromofluorobenzene	88.0	70-130		10/2/23 14:42

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-17 | Sampled: 9/27/2023 11:15

Sample ID: 23I3729-12

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	4.8	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Benzene	0.37	1.0	0.18	µg/L	1	J	SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-17 | Sampled: 9/27/2023 11:15

Sample ID: 23I3729-12

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 15:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		10/2/23 15:09
Toluene-d8	101	70-130		10/2/23 15:09
4-Bromofluorobenzene	86.3	70-130		10/2/23 15:09

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-17BR | Sampled: 9/27/2023 11:20

Sample ID: 23I3729-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:34	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: 23I3729

Date Received: 9/28/2023

Field Sample #: MW-17BR | Sampled: 9/27/2023 11:20

Sample ID: 23I3729-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		10/2/23 23:34
Toluene-d8	98.8	70-130		10/2/23 23:34
4-Bromofluorobenzene	89.7	70-130		10/2/23 23:34

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-1 | Sampled: 9/27/2023 11:05

Sample ID: 23I3729-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.3	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:01	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-1 | Sampled: 9/27/2023 11:05

Sample ID: 23I3729-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		10/3/23 0:01
Toluene-d8	104	70-130		10/3/23 0:01
4-Bromofluorobenzene	86.7	70-130		10/3/23 0:01

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-2 | Sampled: 9/27/2023 11:10

Sample ID: 23I3729-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:28	MFF

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-2 | Sampled: 9/27/2023 11:10

Sample ID: 23I3729-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	92.2	70-130		10/3/23	0:28
Toluene-d8	100	70-130		10/3/23	0:28
4-Bromofluorobenzene	85.5	70-130		10/3/23	0:28

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-3 | Sampled: 9/27/2023 10:50

Sample ID: 23I3729-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.8	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Benzene	1.4	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
cis-1,2-Dichloroethylene	0.42	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 0:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 0:54	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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-3 | Sampled: 9/27/2023 10:50

Sample ID: 23I3729-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 0:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	95.9	70-130		10/3/23	0:54
Toluene-d8	105	70-130		10/3/23	0:54
4-Bromofluorobenzene	89.4	70-130		10/3/23	0:54

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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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-7 | Sampled: 9/27/2023 10:20

Sample ID: 23I3729-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Benzene	1.4	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
cis-1,2-Dichloroethylene	0.76	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 1:21	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Toluene	1.2	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:21	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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-7 | Sampled: 9/27/2023 10:20

Sample ID: 23I3729-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	96.1	70-130		10/3/23	1:21
Toluene-d8	103	70-130		10/3/23	1:21
4-Bromofluorobenzene	94.3	70-130		10/3/23	1:21

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-11 | Sampled: 9/27/2023 10:10

Sample ID: 23I3729-18

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	4.6	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
cis-1,2-Dichloroethylene	0.41	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 1:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Toluene	0.34	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 1:47	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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-11 | Sampled: 9/27/2023 10:10

Sample ID: 23I3729-18

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 1:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.2	70-130		10/3/23 1:47
Toluene-d8	102	70-130		10/3/23 1:47
4-Bromofluorobenzene	86.3	70-130		10/3/23 1:47

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-14 | Sampled: 9/27/2023 10:00

Sample ID: 23I3729-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.9	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Benzene	0.98	1.0	0.18	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
cis-1,2-Dichloroethylene	2.2	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Toluene	0.98	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:14	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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-14 | Sampled: 9/27/2023 10:00

Sample ID: 23I3729-19

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Vinyl Chloride	0.51	2.0	0.24	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:14	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	97.3	70-130		10/3/23 2:14	
Toluene-d8	102	70-130		10/3/23 2:14	
4-Bromofluorobenzene	87.6	70-130		10/3/23 2:14	

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-17 | Sampled: 9/27/2023 10:05

Sample ID: 23I3729-20

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.7	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Benzene	1.6	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
cis-1,2-Dichloroethylene	0.77	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:41	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Toluene	0.31	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 2:41	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: 23I3729

Date Received: 9/28/2023

Field Sample #: IW-17 | Sampled: 9/27/2023 10:05

Sample ID: 23I3729-20

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 2:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.9	70-130		10/3/23 2:41
Toluene-d8	106	70-130		10/3/23 2:41
4-Bromofluorobenzene	86.2	70-130		10/3/23 2:41

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I3729-01 [MW-01R]	B353593	5	5.00	10/02/23
23I3729-02 [MW-7]	B353593	5	5.00	10/02/23
23I3729-03 [MW-9]	B353593	5	5.00	10/02/23
23I3729-04 [MW-12]	B353593	5	5.00	10/02/23
23I3729-05 [MW-13]	B353593	1.25	5.00	10/02/23
23I3729-06 [MW-14]	B353593	5	5.00	10/02/23
23I3729-07 [MW-14BR]	B353593	5	5.00	10/02/23
23I3729-08 [MW-15]	B353593	5	5.00	10/02/23
23I3729-09 [MW-15BR]	B353593	5	5.00	10/02/23
23I3729-10 [MW-16]	B353593	5	5.00	10/02/23
23I3729-11 [MW-16BR]	B353593	5	5.00	10/02/23
23I3729-12 [MW-17]	B353593	5	5.00	10/02/23

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I3729-13 [MW-17BR]	B353595	5	5.00	10/02/23
23I3729-14 [IW-1]	B353595	5	5.00	10/02/23
23I3729-15 [IW-2]	B353595	5	5.00	10/02/23
23I3729-16 [IW-3]	B353595	5	5.00	10/02/23
23I3729-17 [IW-7]	B353595	5	5.00	10/02/23
23I3729-18 [IW-11]	B353595	5	5.00	10/02/23
23I3729-19 [IW-14]	B353595	5	5.00	10/02/23
23I3729-20 [IW-17]	B353595	5	5.00	10/02/23

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I3729-02RE1 [MW-7]	B353818	0.25	5.00	10/03/23

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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 B353593 - SW-846 5030B										
Blank (B353593-BLK1)				Prepared & Analyzed: 10/02/23						
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							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
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							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	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							
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							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	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 B353593 - SW-846 5030B											
Blank (B353593-BLK1)				Prepared & Analyzed: 10/02/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.0		93.1	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130				
Surrogate: 4-Bromofluorobenzene	*22.2*		µg/L	25.0		88.8	70-130				
LCS (B353593-BS1)				Prepared & Analyzed: 10/02/23							
Acetone	95.2	50	µg/L	100		95.2	70-160				†
Benzene	11.3	1.0	µg/L	10.0		113	70-130				
Bromochloromethane	11.8	1.0	µg/L	10.0		118	70-130				
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130				
Bromoform	7.90	1.0	µg/L	10.0		79.0	70-130				
Bromomethane	11.7	2.0	µg/L	10.0		117	40-160				†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160				†
Carbon Disulfide	117	5.0	µg/L	100		117	70-130				
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130				
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
Chlorodibromomethane	9.96	0.50	µg/L	10.0		99.6	70-130				
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130				
Chloroform	10.6	2.0	µg/L	10.0		106	70-130				
Chloromethane	10.5	2.0	µg/L	10.0		105	40-160				†
Cyclohexane	10.4	5.0	µg/L	10.0		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.56	5.0	µg/L	10.0		75.6	70-130			V-05	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
1,4-Dichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130				
Dichlorodifluoromethane (Freon 12)	12.0	2.0	µg/L	10.0		120	40-160				†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130				
1,2-Dichloroethane	9.72	1.0	µg/L	10.0		97.2	70-130				
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130				
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
1,2-Dichloropropane	11.1	1.0	µg/L	10.0		111	70-130				
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130				
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130				
1,4-Dioxane	81.0	50	µg/L	100		81.0	40-130				†
Ethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130				
2-Hexanone (MBK)	89.7	10	µg/L	100		89.7	70-160				†
Isopropylbenzene (Cumene)	9.19	1.0	µg/L	10.0		91.9	70-130				
Methyl Acetate	9.28	1.0	µg/L	10.0		92.8	70-130				
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130				
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130				
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130				
4-Methyl-2-pentanone (MIBK)	88.6	10	µg/L	100		88.6	70-160				†
Styrene	9.68	1.0	µg/L	10.0		96.8	70-130				
1,1,2,2-Tetrachloroethane	9.63	0.50	µg/L	10.0		96.3	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Toluene	10.8	1.0	µg/L	10.0		108	70-130				
1,2,3-Trichlorobenzene	7.61	5.0	µg/L	10.0		76.1	70-130				
1,2,4-Trichlorobenzene	7.76	1.0	µg/L	10.0		77.6	70-130				
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	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 B353593 - SW-846 5030B											
LCS (B353593-BS1)				Prepared & Analyzed: 10/02/23							
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130				
Vinyl Chloride	12.2	2.0	µg/L	10.0		122	40-160			V-20	†
m+p Xylene	19.8	2.0	µg/L	20.0		99.0	70-130				
o-Xylene	9.34	1.0	µg/L	10.0		93.4	70-130				
Xylenes (total)	29.1	1.0	µg/L	30.0		97.1	0-200				
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.6	70-130				
Surrogate: Toluene-d8	*26.7*		µg/L	25.0		107	70-130				
Surrogate: 4-Bromofluorobenzene	*23.6*		µg/L	25.0		94.2	70-130				
LCS Dup (B353593-BSD1)				Prepared & Analyzed: 10/02/23							
Acetone	101	50	µg/L	100		101	70-160	6.18	25		†
Benzene	11.8	1.0	µg/L	10.0		118	70-130	4.24	25		
Bromochloromethane	12.3	1.0	µg/L	10.0		123	70-130	4.31	25		
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130	1.97	25		
Bromoform	8.28	1.0	µg/L	10.0		82.8	70-130	4.70	25		
Bromomethane	11.7	2.0	µg/L	10.0		117	40-160	0.598	25		†
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	5.70	25		†
Carbon Disulfide	122	5.0	µg/L	100		122	70-130	3.68	25		
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107	70-130	3.53	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.71	25		
Chlorodibromomethane	9.96	0.50	µg/L	10.0		99.6	70-130	0.00	25		
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130	1.05	25		
Chloroform	11.1	2.0	µg/L	10.0		111	70-130	4.81	25		
Chloromethane	10.6	2.0	µg/L	10.0		106	40-160	1.14	25		†
Cyclohexane	10.6	5.0	µg/L	10.0		106	70-130	1.61	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.83	5.0	µg/L	10.0		78.3	70-130	3.51	25	V-05	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	0.00	25		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.06	25		
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	4.92	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	5.76	25		
Dichlorodifluoromethane (Freon 12)	12.6	2.0	µg/L	10.0		126	40-160	4.14	25		†
1,1-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130	3.66	25		
1,2-Dichloroethane	9.68	1.0	µg/L	10.0		96.8	70-130	0.412	25		
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.26	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	1.70	25		
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	4.69	25		
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130	4.24	25		
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130	2.89	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	1.81	25		
1,4-Dioxane	84.2	50	µg/L	100		84.2	40-130	3.87	50		† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	4.41	25		
2-Hexanone (MBK)	93.3	10	µg/L	100		93.3	70-160	3.96	25		†
Isopropylbenzene (Cumene)	9.70	1.0	µg/L	10.0		97.0	70-130	5.40	25		
Methyl Acetate	9.31	1.0	µg/L	10.0		93.1	70-130	0.323	25		
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130	0.488	25		
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	0.379	25		
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130	4.31	25		
4-Methyl-2-pentanone (MIBK)	91.0	10	µg/L	100		91.0	70-160	2.64	25		†
Styrene	10.5	1.0	µg/L	10.0		105	70-130	8.32	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 B353593 - SW-846 5030B												
LCS Dup (B353593-BSD1)				Prepared & Analyzed: 10/02/23								
1,1,2,2-Tetrachloroethane	9.81	0.50	µg/L	10.0		98.1		70-130	1.85	25		
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110		70-130	1.55	25		
Toluene	11.2	1.0	µg/L	10.0		112		70-130	4.46	25		
1,2,3-Trichlorobenzene	7.78	5.0	µg/L	10.0		77.8		70-130	2.21	25		
1,2,4-Trichlorobenzene	7.79	1.0	µg/L	10.0		77.9		70-130	0.386	25		
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108		70-130	3.30	25		
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111		70-130	3.11	25		
Trichloroethylene	11.1	1.0	µg/L	10.0		111		70-130	5.67	25		
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108		70-130	2.43	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.0		114		70-130	1.33	25		
Vinyl Chloride	12.9	2.0	µg/L	10.0		129		40-160	5.72	25	V-20	†
m+p Xylene	20.6	2.0	µg/L	20.0		103		70-130	3.77	25		
o-Xylene	9.69	1.0	µg/L	10.0		96.9		70-130	3.68	25		
Xylenes (total)	30.2	1.0	µg/L	30.0		101		0-200	3.74			
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5		70-130				
Surrogate: Toluene-d8	*26.8*		µg/L	25.0		107		70-130				
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		96.1		70-130				
Matrix Spike (B353593-MS1)	**Source: 23I3729-01**			Prepared & Analyzed: 10/02/23								
Acetone	90.2	50	µg/L	100	ND	90.2		70-130				
Benzene	11.2	1.0	µg/L	10.0	ND	112		70-130				
Bromochloromethane	11.0	1.0	µg/L	10.0	ND	110		70-130				
Bromodichloromethane	10.2	0.50	µg/L	10.0	ND	102		70-130				
Bromoform	8.15	1.0	µg/L	10.0	ND	81.5		70-130				
Bromomethane	11.6	2.0	µg/L	10.0	ND	116		70-130				
2-Butanone (MEK)	88.4	20	µg/L	100	ND	88.4		70-130				
Carbon Disulfide	124	5.0	µg/L	100	ND	124		70-130				
Carbon Tetrachloride	10.7	5.0	µg/L	10.0	ND	107		70-130				
Chlorobenzene	11.0	1.0	µg/L	10.0	ND	110		70-130				
Chlorodibromomethane	9.69	0.50	µg/L	10.0	ND	96.9		70-130				
Chloroethane	12.1	2.0	µg/L	10.0	ND	121		70-130				
Chloroform	10.2	2.0	µg/L	10.0	ND	102		70-130				
Chloromethane	8.60	2.0	µg/L	10.0	ND	86.0		70-130				
Cyclohexane	10.0	5.0	µg/L	10.0	ND	100		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	6.94	5.0	µg/L	10.0	ND	**69.4**	*	70-130			MS-07A, V-05	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0	ND	104		70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0	ND	101		70-130				
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0	ND	101		70-130				
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0	ND	103		70-130				
Dichlorodifluoromethane (Freon 12)	11.5	2.0	µg/L	10.0	ND	115		70-130				
1,1-Dichloroethane	12.5	1.0	µg/L	10.0	1.05	115		70-130				
1,2-Dichloroethane	8.97	1.0	µg/L	10.0	ND	89.7		70-130				
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0	ND	112		70-130				
cis-1,2-Dichloroethylene	34.9	1.0	µg/L	10.0	21.0	**139**	*	70-130			MS-24	
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0	ND	113		70-130				
1,2-Dichloropropane	11.2	1.0	µg/L	10.0	ND	112		70-130				
cis-1,3-Dichloropropene	9.90	0.50	µg/L	10.0	ND	99.0		70-130				
trans-1,3-Dichloropropene	9.59	0.50	µg/L	10.0	ND	95.9		70-130				
1,4-Dioxane	73.5	50	µg/L	100	ND	73.5		70-130				
Ethylbenzene	10.5	1.0	µg/L	10.0	ND	105		70-130				
2-Hexanone (MBK)	78.3	10	µg/L	100	ND	78.3		70-130				
Isopropylbenzene (Cumene)	9.65	1.0	µg/L	10.0	ND	96.5		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 B353593 - SW-846 5030B											
Matrix Spike (B353593-MS1)	**Source: 23I3729-01**			Prepared & Analyzed: 10/02/23							
Methyl Acetate	8.23	1.0	µg/L	10.0	ND	82.3		70-130			
Methyl tert-Butyl Ether (MTBE)	9.85	1.0	µg/L	10.0	ND	98.5		70-130			
Methyl Cyclohexane	11.0	1.0	µg/L	10.0	ND	110		70-130			
Methylene Chloride	11.1	5.0	µg/L	10.0	ND	111		70-130			
4-Methyl-2-pentanone (MIBK)	79.6	10	µg/L	100	ND	79.6		70-130			
Styrene	9.74	1.0	µg/L	10.0	ND	97.4		70-130			
1,1,2,2-Tetrachloroethane	9.19	0.50	µg/L	10.0	ND	91.9		70-130			
Tetrachloroethylene	12.6	1.0	µg/L	10.0	0.790	118		70-130			
Toluene	11.1	1.0	µg/L	10.0	ND	111		70-130			
1,2,3-Trichlorobenzene	6.89	5.0	µg/L	10.0	ND	**68.9**	*	70-130			MS-24
1,2,4-Trichlorobenzene	6.90	1.0	µg/L	10.0	ND	**69.0**	*	70-130			MS-24
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0	ND	101		70-130			
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0	ND	106		70-130			
Trichloroethylene	14.7	1.0	µg/L	10.0	4.07	107		70-130			
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.0	ND	117		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0	ND	117		70-130			
Vinyl Chloride	27.6	2.0	µg/L	10.0	11.4	**162**	*	70-130			MS-12, V-20
m+p Xylene	20.5	2.0	µg/L	20.0	ND	103		70-130			
o-Xylene	9.53	1.0	µg/L	10.0	ND	95.3		70-130			
Xylenes (total)	30.0	1.0	µg/L	30.0	ND	100		0-200			
Surrogate: 1,2-Dichloroethane-d4	*22.7*		µg/L	25.0		90.9		70-130			
Surrogate: Toluene-d8	*26.3*		µg/L	25.0		105		70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.5		70-130			
Matrix Spike Dup (B353593-MSD1)	**Source: 23I3729-01**			Prepared & Analyzed: 10/02/23							
Acetone	88.7	50	µg/L	100	ND	88.7		70-130	1.68	30	
Benzene	11.4	1.0	µg/L	10.0	ND	114		70-130	1.50	30	
Bromochloromethane	11.3	1.0	µg/L	10.0	ND	113		70-130	3.14	30	
Bromodichloromethane	9.92	0.50	µg/L	10.0	ND	99.2		70-130	3.17	30	
Bromoform	8.00	1.0	µg/L	10.0	ND	80.0		70-130	1.86	30	
Bromomethane	11.5	2.0	µg/L	10.0	ND	115		70-130	1.13	30	
2-Butanone (MEK)	89.6	20	µg/L	100	ND	89.6		70-130	1.28	30	
Carbon Disulfide	120	5.0	µg/L	100	ND	120		70-130	3.66	30	
Carbon Tetrachloride	10.9	5.0	µg/L	10.0	ND	109		70-130	1.94	30	
Chlorobenzene	10.6	1.0	µg/L	10.0	ND	106		70-130	3.90	30	
Chlorodibromomethane	9.32	0.50	µg/L	10.0	ND	93.2		70-130	3.89	30	
Chloroethane	11.6	2.0	µg/L	10.0	ND	116		70-130	4.21	30	
Chloroform	10.4	2.0	µg/L	10.0	ND	104		70-130	2.13	30	
Chloromethane	8.66	2.0	µg/L	10.0	ND	86.6		70-130	0.695	30	
Cyclohexane	9.98	5.0	µg/L	10.0	ND	99.8		70-130	0.400	30	
1,2-Dibromo-3-chloropropane (DBCP)	6.95	5.0	µg/L	10.0	ND	**69.5**	*	70-130	0.144	30	MS-07A, V-05
1,2-Dibromoethane (EDB)	9.81	0.50	µg/L	10.0	ND	98.1		70-130	5.36	30	
1,2-Dichlorobenzene	9.83	1.0	µg/L	10.0	ND	98.3		70-130	3.01	30	
1,3-Dichlorobenzene	9.84	1.0	µg/L	10.0	ND	98.4		70-130	2.71	30	
1,4-Dichlorobenzene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	8.60	30	
Dichlorodifluoromethane (Freon 12)	11.5	2.0	µg/L	10.0	ND	115		70-130	0.608	30	
1,1-Dichloroethane	12.0	1.0	µg/L	10.0	1.05	109		70-130	4.58	30	
1,2-Dichloroethane	8.97	1.0	µg/L	10.0	ND	89.7		70-130	0.00	30	
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0	ND	106		70-130	4.68	30	
cis-1,2-Dichloroethylene	31.8	1.0	µg/L	10.0	21.0	108		70-130	9.41	30	
trans-1,2-Dichloroethylene	11.0	1.0	µg/L	10.0	ND	110		70-130	2.61	30	
1,2-Dichloropropane	10.4	1.0	µg/L	10.0	ND	104		70-130	7.21	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 B353593 - SW-846 5030B											
Matrix Spike Dup (B353593-MSD1)	**Source: 23I3729-01**			Prepared & Analyzed: 10/02/23							
cis-1,3-Dichloropropene	9.51	0.50	µg/L	10.0	ND	95.1		70-130	4.02	30	
trans-1,3-Dichloropropene	9.07	0.50	µg/L	10.0	ND	90.7		70-130	5.57	30	
1,4-Dioxane	75.2	50	µg/L	100	ND	75.2		70-130	2.22	30	
Ethylbenzene	10.3	1.0	µg/L	10.0	ND	103		70-130	1.92	30	
2-Hexanone (MBK)	77.3	10	µg/L	100	ND	77.3		70-130	1.30	30	
Isopropylbenzene (Cumene)	9.48	1.0	µg/L	10.0	ND	94.8		70-130	1.78	30	
Methyl Acetate	7.47	1.0	µg/L	10.0	ND	74.7		70-130	9.68	30	
Methyl tert-Butyl Ether (MTBE)	9.46	1.0	µg/L	10.0	ND	94.6		70-130	4.04	30	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0	ND	102		70-130	6.98	30	
Methylene Chloride	10.4	5.0	µg/L	10.0	ND	104		70-130	6.79	30	
4-Methyl-2-pentanone (MIBK)	77.4	10	µg/L	100	ND	77.4		70-130	2.78	30	
Styrene	9.98	1.0	µg/L	10.0	ND	99.8		70-130	2.43	30	
1,1,2,2-Tetrachloroethane	9.40	0.50	µg/L	10.0	ND	94.0		70-130	2.26	30	
Tetrachloroethylene	11.6	1.0	µg/L	10.0	0.790	108		70-130	8.04	30	
Toluene	10.7	1.0	µg/L	10.0	ND	107		70-130	4.40	30	
1,2,3-Trichlorobenzene	7.03	5.0	µg/L	10.0	ND	70.3		70-130	2.01	30	
1,2,4-Trichlorobenzene	7.14	1.0	µg/L	10.0	ND	71.4		70-130	3.42	30	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130	0.983	30	
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102		70-130	3.66	30	
Trichloroethylene	14.2	1.0	µg/L	10.0	4.07	102		70-130	3.52	30	
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0	ND	110		70-130	6.08	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.0	ND	116		70-130	0.602	30	
Vinyl Chloride	25.8	2.0	µg/L	10.0	11.4	**143**	*	70-130	7.08	30	MS-12, V-20
m+p Xylene	20.3	2.0	µg/L	20.0	ND	102		70-130	1.03	20	
o-Xylene	9.67	1.0	µg/L	10.0	ND	96.7		70-130	1.46	30	
Xylenes (total)	30.0	1.0	µg/L	30.0	ND	99.9		0-200	0.233		
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.7		70-130			
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.7		70-130			
Batch B353595 - SW-846 5030B											
Blank (B353595-BLK1)				Prepared & Analyzed: 10/02/23							
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								
Carbon Disulfide	ND	5.0	µg/L								
Carbon Tetrachloride	ND	5.0	µg/L								
Chlorobenzene	ND	1.0	µg/L								
Chlorodibromomethane	ND	0.50	µg/L								
Chloroethane	ND	2.0	µg/L								
Chloroform	ND	2.0	µg/L								
Chloromethane	ND	2.0	µg/L								
Cyclohexane	ND	5.0	µg/L								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L								V-05
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								

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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 B353595 - SW-846 5030B											
Blank (B353595-BLK1)				Prepared & Analyzed: 10/02/23							
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								
1,4-Dioxane	ND	50	µg/L								
Ethylbenzene	ND	1.0	µg/L								
2-Hexanone (MBK)	ND	10	µg/L								
Isopropylbenzene (Cumene)	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								
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							V-05	
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05	
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		95.9	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130				
Surrogate: 4-Bromofluorobenzene	*21.6*		µg/L	25.0		86.6	70-130				
LCS (B353595-BS1)				Prepared & Analyzed: 10/02/23							
Acetone	99.3	50	µg/L	100		99.3	70-160				†
Benzene	11.6	1.0	µg/L	10.0		116	70-130				
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130				
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130				
Bromoform	8.87	1.0	µg/L	10.0		88.7	70-130				
Bromomethane	14.0	2.0	µg/L	10.0		140	40-160			V-20	†
2-Butanone (MEK)	98.2	20	µg/L	100		98.2	40-160				†
Carbon Disulfide	119	5.0	µg/L	100		119	70-130				
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130				
Chlorobenzene	11.5	1.0	µg/L	10.0		115	70-130				
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130				
Chloroethane	11.6	2.0	µg/L	10.0		116	70-130				
Chloroform	10.8	2.0	µg/L	10.0		108	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 B353595 - SW-846 5030B											
LCS (B353595-BS1)				Prepared & Analyzed: 10/02/23							
Chloromethane	10.1	2.0	µg/L	10.0		101	40-160				†
Cyclohexane	9.81	5.0	µg/L	10.0		98.1	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.20	5.0	µg/L	10.0		72.0	70-130			V-05	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130				
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
Dichlorodifluoromethane (Freon 12)	11.6	2.0	µg/L	10.0		116	40-160				†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130				
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130				
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130				
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130				
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130				
1,4-Dioxane	76.0	50	µg/L	100		76.0	40-130				†
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
2-Hexanone (MBK)	84.9	10	µg/L	100		84.9	70-160				†
Isopropylbenzene (Cumene)	9.99	1.0	µg/L	10.0		99.9	70-130				
Methyl Acetate	9.65	1.0	µg/L	10.0		96.5	70-130				
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130				
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130				
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130				
4-Methyl-2-pentanone (MIBK)	82.9	10	µg/L	100		82.9	70-160				†
Styrene	10.7	1.0	µg/L	10.0		107	70-130				
1,1,2,2-Tetrachloroethane	9.73	0.50	µg/L	10.0		97.3	70-130				
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130				
Toluene	11.0	1.0	µg/L	10.0		110	70-130				
1,2,3-Trichlorobenzene	7.69	5.0	µg/L	10.0		76.9	70-130			V-05	
1,2,4-Trichlorobenzene	7.55	1.0	µg/L	10.0		75.5	70-130			V-05	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130				
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130				
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130				
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.0		109	70-130				
Vinyl Chloride	12.7	2.0	µg/L	10.0		127	40-160			V-20	†
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130				
Xylenes (total)	31.4	1.0	µg/L	30.0		105	0-200				
Surrogate: 1,2-Dichloroethane-d4	*22.1*		µg/L	25.0		88.4	70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130				
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		95.8	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 B353595 - SW-846 5030B											
LCS Dup (B353595-BSD1)				Prepared & Analyzed: 10/02/23							
Acetone	102	50	µg/L	100		102	70-160	2.59	25		†
Benzene	11.4	1.0	µg/L	10.0		114	70-130	2.00	25		
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130	3.67	25		
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130	4.68	25		
Bromoform	8.76	1.0	µg/L	10.0		87.6	70-130	1.25	25		
Bromomethane	13.6	2.0	µg/L	10.0		136	40-160	2.75	25	V-20	†
2-Butanone (MEK)	105	20	µg/L	100		105	40-160	7.00	25		†
Carbon Disulfide	123	5.0	µg/L	100		123	70-130	3.12	25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130	3.61	25		
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	0.437	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	7.55	25		
Chloroethane	11.9	2.0	µg/L	10.0		119	70-130	2.72	25		
Chloroform	10.6	2.0	µg/L	10.0		106	70-130	2.25	25		
Chloromethane	10.4	2.0	µg/L	10.0		104	40-160	3.51	25		†
Cyclohexane	9.63	5.0	µg/L	10.0		96.3	70-130	1.85	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.93	5.0	µg/L	10.0		79.3	70-130	9.65	25	V-05	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	5.64	25		
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.51	25		
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	3.52	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.19	25		
Dichlorodifluoromethane (Freon 12)	11.9	2.0	µg/L	10.0		119	40-160	2.55	25		†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	2.27	25		
1,2-Dichloroethane	9.63	1.0	µg/L	10.0		96.3	70-130	2.63	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	3.64	25		
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.488	25		
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	8.63	25		
1,2-Dichloropropane	12.1	1.0	µg/L	10.0		121	70-130	5.98	25		
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	7.09	25		
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111	70-130	8.56	25		
1,4-Dioxane	81.4	50	µg/L	100		81.4	40-130	6.87	50		† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.467	25		
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	16.9	25		†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130	2.67	25		
Methyl Acetate	9.66	1.0	µg/L	10.0		96.6	70-130	0.104	25		
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130	4.44	25		
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130	5.70	25		
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130	5.67	25		
4-Methyl-2-pentanone (MIBK)	94.0	10	µg/L	100		94.0	70-160	12.6	25		†
Styrene	10.7	1.0	µg/L	10.0		107	70-130	0.0936	25		
1,1,2,2-Tetrachloroethane	9.90	0.50	µg/L	10.0		99.0	70-130	1.73	25		
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130	2.52	25		
Toluene	11.9	1.0	µg/L	10.0		119	70-130	7.96	25		
1,2,3-Trichlorobenzene	8.10	5.0	µg/L	10.0		81.0	70-130	5.19	25	V-05	
1,2,4-Trichlorobenzene	7.90	1.0	µg/L	10.0		79.0	70-130	4.53	25	V-05	
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.45	25		
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119	70-130	7.41	25		
Trichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	7.02	25		
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	2.01	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117	70-130	7.43	25		
Vinyl Chloride	12.9	2.0	µg/L	10.0		129	40-160	1.48	25	V-20	†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	0.518	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 B353595 - SW-846 5030B										
LCS Dup (B353595-BSD1)				Prepared & Analyzed: 10/02/23						
o-Xylene	9.87	1.0	µg/L	10.0		98.7	70-130	2.50	25	
Xylenes (total)	31.0	1.0	µg/L	30.0		104	0-200	1.15		
Surrogate: 1,2-Dichloroethane-d4	*23.1*		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	*27.4*		µg/L	25.0		110	70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.2	70-130			
Batch B353818 - SW-846 5030B										
Blank (B353818-BLK1)				Prepared: 10/03/23 Analyzed: 10/06/23						
Vinyl Chloride	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.0		93.1	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*26.8*		µg/L	25.0		107	70-130			
LCS (B353818-BS1)				Prepared: 10/03/23 Analyzed: 10/06/23						
Vinyl Chloride	10.9	2.0	µg/L	10.0		109	40-160			†
Surrogate: 1,2-Dichloroethane-d4	*22.6*		µg/L	25.0		90.3	70-130			
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*26.9*		µg/L	25.0		108	70-130			
LCS Dup (B353818-BSD1)				Prepared: 10/03/23 Analyzed: 10/06/23						
Vinyl Chloride	11.1	2.0	µg/L	10.0		111	40-160	1.63	25	†
Surrogate: 1,2-Dichloroethane-d4	*21.7*		µg/L	25.0		86.9	70-130			
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107	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.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high 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.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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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
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
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,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
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
Trichloroethylene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	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	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical

Phone: 612-607-6400
Fax: 612-607-6344

23I3729
RJM

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis
Address: 1 Lincoln Center 110 W. Fayette St.
Phone: 315-480-7397
Project Name: Jacks Dry Cleaners
Project Location: Brewerton, NY
Project Number: 30135043
Project Manager: Stefan Bagnato
Pace Analytical Quote Name/Number: 2308444
Invoice Recipient: Bill NYS DEC
Sampled By: Kyle Barber

Requested Turnaround Time:
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required:
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis.com
Fax To #:

| Pace Analytical Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | 8260 NYSP DEC TCL | | |

Pace Analytical

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 2 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis
Address: 2 Lincoln Centr 110 W. Fayette St.
Phone: 315-460-7397
Project Name: Stubbs Dry Cleaners
Project Location: Brewerton, NY
Project Number: 3013 5043
Project Manager: Stefan Bagnato
Pace Analytical Quote Name/Number 2308444
Invoice Recipient: Bill NYS DEC
Sampled By: Kyle Barber

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260 ASP DEC TCL	ANALYSIS REQUESTED	# of Containers	Preservation Code	Container Code
11	MW-16BR	9-27-23	1035		X	GW		X				
12	MW-17		1115		X	GW		X				
13	MW-17BR		1120		X	GW		X				
14	IW-1		1105		X	GW		X				
15	IW-2		1110		X	GW		X				
16	IW-3		1050		X	GW		X				
17	IW-7		1020		X	GW		X				
18	IW-11		1010		X	GW		X				
19	IW-14		1000		X	GW		X				
20	IW-17	↓	1005		X	GW		X				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9-27-23 1300
Received by: (signature)	9-27 1300
Relinquished by: (signature)	
Received by: (signature) 2.1°C	0716 9-28-23
Relinquished by: (signature)	
Received by: (signature)	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 Jack's Dry Cleaners

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location Brewerton, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AM 9/28/23 7K

Back-Sheet By / Date / Time LA 9/28/23 830

Temperature Method Gun # 5

Temp ✓ < 6° C Actual Temperature 2.1

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

work order was split after the first 2 pages

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	☑	☑ AA M
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

Quaitrax ID: 120836

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

Sample	Soils Jars (Circle Amb/Clear)				Ambers						Plastics												VOA Vials						Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter			250mL		100mL	1 Liter		500mL		250mL																			
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact						
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October 10, 2023

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: 23I3738

Enclosed are results of analyses for samples as received by the laboratory on September 28, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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

REPORT DATE: 10/10/2023

PURCHASE ORDER NUMBER: 145616

PROJECT NUMBER: 734112

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23I3738

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
IW-19	23I3738-01	Ground Water		SW-846 8260D	
IW-24	23I3738-02	Ground Water		SW-846 8260D	
IW-29	23I3738-03	Ground Water		SW-846 8260D	
DUP-092723-01	23I3738-04	Ground Water		SW-846 8260D	
DUP-092723-02	23I3738-05	Ground Water		SW-846 8260D	
TRIP BLANK	23I3738-06	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:

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:

1,2,3-Trichlorobenzene
23I3738-03[IW-29], B353595-MS1, B353595-MSD1

1,2,4-Trichlorobenzene
23I3738-03[IW-29], B353595-MS1, B353595-MSD1

Methyl Acetate
23I3738-03[IW-29], B353595-MS1, B353595-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:

1,4-Dioxane
B353595-MS1

V-05

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
23I3738-01[IW-19], 23I3738-02[IW-24], 23I3738-03[IW-29], 23I3738-04[DUP-092723-01], 23I3738-05[DUP-092723-02], 23I3738-06[TRIP BLANK], B353595-BLK1, B353595-BS1, B353595-BSD1, B353595-MS1, B353595-MSD1, S094233-CCV1

1,2,4-Trichlorobenzene
23I3738-01[IW-19], 23I3738-02[IW-24], 23I3738-03[IW-29], 23I3738-04[DUP-092723-01], 23I3738-05[DUP-092723-02], 23I3738-06[TRIP BLANK], B353595-BLK1, B353595-BS1, B353595-BSD1, B353595-MS1, B353595-MSD1, S094233-CCV1

1,2-Dibromo-3-chloropropane (DBCP)
23I3738-01[IW-19], 23I3738-02[IW-24], 23I3738-03[IW-29], 23I3738-04[DUP-092723-01], 23I3738-05[DUP-092723-02], 23I3738-06[TRIP BLANK], B353595-BLK1, B353595-BS1, B353595-BSD1, B353595-MS1, B353595-MSD1, S094233-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.

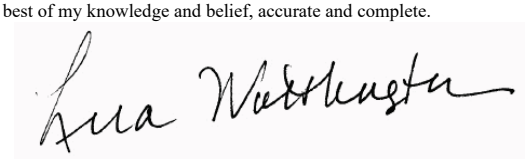
Analyte & Samples(s) Qualified:

Bromomethane
B353595-BS1, B353595-BSD1, B353595-MS1, B353595-MSD1, S094233-CCV1

Vinyl Chloride
B353595-BS1, B353595-BSD1, B353595-MS1, B353595-MSD1, S094233-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.



Lisa A. Worthington
Technical Representative

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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: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-19 | Sampled: 9/27/2023 09:40

Sample ID: 23I3738-01

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	10/2/23	10/3/23 3:07	MFF
Benzene	1.5	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 3:07	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Methyl Cyclohexane	0.44	1.0	0.16	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Toluene	0.64	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:07	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: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-19 | Sampled: 9/27/2023 09:40

Sample ID: 23I3738-01

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	96.1	70-130		10/3/23	3:07
Toluene-d8	101	70-130		10/3/23	3:07
4-Bromofluorobenzene	81.9	70-130		10/3/23	3:07

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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: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-24 | Sampled: 9/27/2023 09:20

Sample ID: 23I3738-02

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	5.2	50	2.0	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Toluene	0.37	1.0	0.22	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 3:34	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: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-24 | Sampled: 9/27/2023 09:20

Sample ID: 23I3738-02

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 3:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.4	70-130		10/3/23 3:34
Toluene-d8	95.9	70-130		10/3/23 3:34
4-Bromofluorobenzene	91.3	70-130		10/3/23 3:34

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-29 | Sampled: 9/27/2023 09:10

Sample ID: 23I3738-03

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	10/2/23	10/3/23 4:01	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
cis-1,2-Dichloroethylene	0.68	1.0	0.14	µg/L	1	J	SW-846 8260D	10/2/23	10/3/23 4:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	MS-07A	SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	MS-07A, V-05	SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	MS-07A, V-05	SW-846 8260D	10/2/23	10/3/23 4:01	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: 23I3738

Date Received: 9/28/2023

Field Sample #: IW-29 | Sampled: 9/27/2023 09:10

Sample ID: 23I3738-03

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		10/3/23 4:01
Toluene-d8	99.8	70-130		10/3/23 4:01
4-Bromofluorobenzene	90.6	70-130		10/3/23 4:01

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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: 23I3738

Date Received: 9/28/2023

Field Sample #: DUP-092723-01 | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-04

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	10/2/23	10/3/23 4:27	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:27	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: 23I3738

Date Received: 9/28/2023

Field Sample #: DUP-092723-01 | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-04

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	98.5	70-130		10/3/23	4:27
Toluene-d8	99.6	70-130		10/3/23	4:27
4-Bromofluorobenzene	87.8	70-130		10/3/23	4:27

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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: 23I3738

Date Received: 9/28/2023

Field Sample #: DUP-092723-02 | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-05

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	ND	50	2.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/3/23 4:54	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: 23I3738

Date Received: 9/28/2023

Field Sample #: DUP-092723-02 | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-05

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/3/23 4:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		10/3/23 4:54
Toluene-d8	103	70-130		10/3/23 4:54
4-Bromofluorobenzene	88.2	70-130		10/3/23 4:54

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Project Location: Brewerton, NY | Sample Description: | Work Order: 23I3738

Date Received: 9/28/2023

Field Sample #: TRIP BLANK | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-06

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	10/2/23	10/2/23 23:08	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1	V-05	SW-846 8260D	10/2/23	10/2/23 23:08	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: 23I3738

Date Received: 9/28/2023

Field Sample #: TRIP BLANK | Sampled: 9/27/2023 00:00

Sample ID: 23I3738-06

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
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/2/23	10/2/23 23:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		10/2/23 23:08
Toluene-d8	102	70-130		10/2/23 23:08
4-Bromofluorobenzene	85.8	70-130		10/2/23 23:08

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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
23I3738-01 [IW-19]	B353595	5	5.00	10/02/23
23I3738-02 [IW-24]	B353595	5	5.00	10/02/23
23I3738-03 [IW-29]	B353595	5	5.00	10/02/23
23I3738-04 [DUP-092723-01]	B353595	5	5.00	10/02/23
23I3738-05 [DUP-092723-02]	B353595	5	5.00	10/02/23
23I3738-06 [TRIP BLANK]	B353595	5	5.00	10/02/23

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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 B353595 - SW-846 5030B										
Blank (B353595-BLK1)				Prepared & Analyzed: 10/02/23						
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							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
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							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	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							
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							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	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 B353595 - SW-846 5030B											
Blank (B353595-BLK1)				Prepared & Analyzed: 10/02/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		95.9	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130				
Surrogate: 4-Bromofluorobenzene	*21.6*		µg/L	25.0		86.6	70-130				
LCS (B353595-BS1)				Prepared & Analyzed: 10/02/23							
Acetone	99.3	50	µg/L	100		99.3	70-160				†
Benzene	11.6	1.0	µg/L	10.0		116	70-130				
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130				
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130				
Bromoform	8.87	1.0	µg/L	10.0		88.7	70-130				
Bromomethane	14.0	2.0	µg/L	10.0		140	40-160			V-20	†
2-Butanone (MEK)	98.2	20	µg/L	100		98.2	40-160				†
Carbon Disulfide	119	5.0	µg/L	100		119	70-130				
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130				
Chlorobenzene	11.5	1.0	µg/L	10.0		115	70-130				
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130				
Chloroethane	11.6	2.0	µg/L	10.0		116	70-130				
Chloroform	10.8	2.0	µg/L	10.0		108	70-130				
Chloromethane	10.1	2.0	µg/L	10.0		101	40-160				†
Cyclohexane	9.81	5.0	µg/L	10.0		98.1	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	7.20	5.0	µg/L	10.0		72.0	70-130			V-05	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130				
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130				
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
Dichlorodifluoromethane (Freon 12)	11.6	2.0	µg/L	10.0		116	40-160				†
1,1-Dichloroethane	11.6	1.0	µg/L	10.0		116	70-130				
1,2-Dichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130				
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130				
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130				
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130				
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130				
1,4-Dioxane	76.0	50	µg/L	100		76.0	40-130				†
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
2-Hexanone (MBK)	84.9	10	µg/L	100		84.9	70-160				†
Isopropylbenzene (Cumene)	9.99	1.0	µg/L	10.0		99.9	70-130				
Methyl Acetate	9.65	1.0	µg/L	10.0		96.5	70-130				
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130				
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130				
Methylene Chloride	10.6	5.0	µg/L	10.0		106	70-130				
4-Methyl-2-pentanone (MIBK)	82.9	10	µg/L	100		82.9	70-160				†
Styrene	10.7	1.0	µg/L	10.0		107	70-130				
1,1,2,2-Tetrachloroethane	9.73	0.50	µg/L	10.0		97.3	70-130				
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130				
Toluene	11.0	1.0	µg/L	10.0		110	70-130				
1,2,3-Trichlorobenzene	7.69	5.0	µg/L	10.0		76.9	70-130			V-05	
1,2,4-Trichlorobenzene	7.55	1.0	µg/L	10.0		75.5	70-130			V-05	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	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 B353595 - SW-846 5030B											
LCS (B353595-BS1)				Prepared & Analyzed: 10/02/23							
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130				
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130				
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	µg/L	10.0		109	70-130				
Vinyl Chloride	12.7	2.0	µg/L	10.0		127	40-160			V-20	†
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130				
Xylenes (total)	31.4	1.0	µg/L	30.0		105	0-200				
Surrogate: 1,2-Dichloroethane-d4	*22.1*		µg/L	25.0		88.4	70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130				
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		95.8	70-130				
LCS Dup (B353595-BSD1)				Prepared & Analyzed: 10/02/23							
Acetone	102	50	µg/L	100		102	70-160	2.59	25		†
Benzene	11.4	1.0	µg/L	10.0		114	70-130	2.00	25		
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130	3.67	25		
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130	4.68	25		
Bromoform	8.76	1.0	µg/L	10.0		87.6	70-130	1.25	25		
Bromomethane	13.6	2.0	µg/L	10.0		136	40-160	2.75	25	V-20	†
2-Butanone (MEK)	105	20	µg/L	100		105	40-160	7.00	25		†
Carbon Disulfide	123	5.0	µg/L	100		123	70-130	3.12	25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130	3.61	25		
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	0.437	25		
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	7.55	25		
Chloroethane	11.9	2.0	µg/L	10.0		119	70-130	2.72	25		
Chloroform	10.6	2.0	µg/L	10.0		106	70-130	2.25	25		
Chloromethane	10.4	2.0	µg/L	10.0		104	40-160	3.51	25		†
Cyclohexane	9.63	5.0	µg/L	10.0		96.3	70-130	1.85	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.93	5.0	µg/L	10.0		79.3	70-130	9.65	25	V-05	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	5.64	25		
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.51	25		
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	3.52	25		
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.19	25		
Dichlorodifluoromethane (Freon 12)	11.9	2.0	µg/L	10.0		119	40-160	2.55	25		†
1,1-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	2.27	25		
1,2-Dichloroethane	9.63	1.0	µg/L	10.0		96.3	70-130	2.63	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	3.64	25		
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.488	25		
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	8.63	25		
1,2-Dichloropropane	12.1	1.0	µg/L	10.0		121	70-130	5.98	25		
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	7.09	25		
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111	70-130	8.56	25		
1,4-Dioxane	81.4	50	µg/L	100		81.4	40-130	6.87	50		† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.467	25		
2-Hexanone (MBK)	101	10	µg/L	100		101	70-160	16.9	25		†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130	2.67	25		
Methyl Acetate	9.66	1.0	µg/L	10.0		96.6	70-130	0.104	25		
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130	4.44	25		
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130	5.70	25		
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130	5.67	25		
4-Methyl-2-pentanone (MIBK)	94.0	10	µg/L	100		94.0	70-160	12.6	25		†
Styrene	10.7	1.0	µg/L	10.0		107	70-130	0.0936	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 B353595 - SW-846 5030B										
LCS Dup (B353595-BSD1)				Prepared & Analyzed: 10/02/23						
1,1,2,2-Tetrachloroethane	9.90	0.50	µg/L	10.0		99.0	70-130	1.73	25	
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130	2.52	25	
Toluene	11.9	1.0	µg/L	10.0		119	70-130	7.96	25	
1,2,3-Trichlorobenzene	8.10	5.0	µg/L	10.0		81.0	70-130	5.19	25	V-05
1,2,4-Trichlorobenzene	7.90	1.0	µg/L	10.0		79.0	70-130	4.53	25	V-05
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.45	25	
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119	70-130	7.41	25	
Trichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	7.02	25	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	2.01	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	µg/L	10.0		117	70-130	7.43	25	
Vinyl Chloride	12.9	2.0	µg/L	10.0		129	40-160	1.48	25	V-20 †
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	0.518	25	
o-Xylene	9.87	1.0	µg/L	10.0		98.7	70-130	2.50	25	
Xylenes (total)	31.0	1.0	µg/L	30.0		104	0-200	1.15		
Surrogate: 1,2-Dichloroethane-d4	*23.1*		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	*27.4*		µg/L	25.0		110	70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.2	70-130			
Matrix Spike (B353595-MS1)		**Source: 23I3738-03**		Prepared: 10/02/23 Analyzed: 10/03/23						
Acetone	91.4	50	µg/L	100	ND	91.4	70-130			
Benzene	11.7	1.0	µg/L	10.0	ND	117	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0	ND	115	70-130			
Bromodichloromethane	10.5	0.50	µg/L	10.0	ND	105	70-130			
Bromoform	8.23	1.0	µg/L	10.0	ND	82.3	70-130			
Bromomethane	10.6	2.0	µg/L	10.0	ND	106	70-130			V-20
2-Butanone (MEK)	93.9	20	µg/L	100	ND	93.9	70-130			
Carbon Disulfide	117	5.0	µg/L	100	ND	117	70-130			
Carbon Tetrachloride	10.7	5.0	µg/L	10.0	ND	107	70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0	ND	108	70-130			
Chlorodibromomethane	10.0	0.50	µg/L	10.0	ND	100	70-130			
Chloroethane	12.0	2.0	µg/L	10.0	ND	120	70-130			
Chloroform	10.9	2.0	µg/L	10.0	ND	109	70-130			
Chloromethane	9.12	2.0	µg/L	10.0	ND	91.2	70-130			
Cyclohexane	10.0	5.0	µg/L	10.0	ND	100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.08	5.0	µg/L	10.0	ND	70.8	70-130			V-05
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0	ND	102	70-130			
1,2-Dichlorobenzene	9.67	1.0	µg/L	10.0	ND	96.7	70-130			
1,3-Dichlorobenzene	9.99	1.0	µg/L	10.0	ND	99.9	70-130			
1,4-Dichlorobenzene	9.56	1.0	µg/L	10.0	ND	95.6	70-130			
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.0	ND	112	70-130			
1,1-Dichloroethane	11.5	1.0	µg/L	10.0	ND	115	70-130			
1,2-Dichloroethane	9.71	1.0	µg/L	10.0	ND	97.1	70-130			
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0	ND	104	70-130			
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0	0.680	99.4	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0	ND	105	70-130			
1,2-Dichloropropane	11.0	1.0	µg/L	10.0	ND	110	70-130			
cis-1,3-Dichloropropene	9.23	0.50	µg/L	10.0	ND	92.3	70-130			
trans-1,3-Dichloropropene	9.53	0.50	µg/L	10.0	ND	95.3	70-130			
1,4-Dioxane	67.1	50	µg/L	100	ND	**67.1** *	70-130			MS-24
Ethylbenzene	9.98	1.0	µg/L	10.0	ND	99.8	70-130			
2-Hexanone (MBK)	80.6	10	µg/L	100	ND	80.6	70-130			
Isopropylbenzene (Cumene)	9.16	1.0	µg/L	10.0	ND	91.6	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 B353595 - SW-846 5030B											
Matrix Spike (B353595-MS1)	**Source: 23I3738-03**			Prepared: 10/02/23 Analyzed: 10/03/23							
Methyl Acetate	6.71	1.0	µg/L	10.0	ND	**67.1**	*	70-130			MS-07A
Methyl tert-Butyl Ether (MTBE)	9.71	1.0	µg/L	10.0	ND	97.1		70-130			
Methyl Cyclohexane	9.53	1.0	µg/L	10.0	ND	95.3		70-130			
Methylene Chloride	10.8	5.0	µg/L	10.0	ND	108		70-130			
4-Methyl-2-pentanone (MIBK)	79.0	10	µg/L	100	ND	79.0		70-130			
Styrene	9.59	1.0	µg/L	10.0	ND	95.9		70-130			
1,1,2,2-Tetrachloroethane	9.76	0.50	µg/L	10.0	ND	97.6		70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.0	ND	110		70-130			
Toluene	11.0	1.0	µg/L	10.0	ND	110		70-130			
1,2,3-Trichlorobenzene	6.24	5.0	µg/L	10.0	ND	**62.4**	*	70-130			MS-07A, V-05
1,2,4-Trichlorobenzene	5.91	1.0	µg/L	10.0	ND	**59.1**	*	70-130			MS-07A, V-05
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0	ND	110		70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0	ND	109		70-130			
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0	ND	110		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.0	ND	111		70-130			
Vinyl Chloride	12.6	2.0	µg/L	10.0	ND	126		70-130			V-20
m+p Xylene	19.9	2.0	µg/L	20.0	ND	99.5		70-130			
o-Xylene	9.36	1.0	µg/L	10.0	ND	93.6		70-130			
Xylenes (total)	29.3	1.0	µg/L	30.0	ND	97.5		0-200			
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.8		70-130			
Surrogate: Toluene-d8	*26.3*		µg/L	25.0		105		70-130			
Surrogate: 4-Bromofluorobenzene	*24.2*		µg/L	25.0		96.6		70-130			
Matrix Spike Dup (B353595-MSD1)	**Source: 23I3738-03**			Prepared: 10/02/23 Analyzed: 10/03/23							
Acetone	90.5	50	µg/L	100	ND	90.5		70-130	0.990	30	
Benzene	11.6	1.0	µg/L	10.0	ND	116		70-130	1.11	30	
Bromochloromethane	11.8	1.0	µg/L	10.0	ND	118		70-130	2.15	30	
Bromodichloromethane	10.1	0.50	µg/L	10.0	ND	101		70-130	3.68	30	
Bromoform	7.99	1.0	µg/L	10.0	ND	79.9		70-130	2.96	30	
Bromomethane	10.9	2.0	µg/L	10.0	ND	109		70-130	2.60	30	V-20
2-Butanone (MEK)	98.7	20	µg/L	100	ND	98.7		70-130	5.00	30	
Carbon Disulfide	115	5.0	µg/L	100	ND	115		70-130	1.80	30	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0	ND	107		70-130	0.280	30	
Chlorobenzene	11.1	1.0	µg/L	10.0	ND	111		70-130	2.47	30	
Chlorodibromomethane	9.40	0.50	µg/L	10.0	ND	94.0		70-130	6.58	30	
Chloroethane	11.0	2.0	µg/L	10.0	ND	110		70-130	8.01	30	
Chloroform	10.7	2.0	µg/L	10.0	ND	107		70-130	2.41	30	
Chloromethane	8.75	2.0	µg/L	10.0	ND	87.5		70-130	4.14	30	
Cyclohexane	9.85	5.0	µg/L	10.0	ND	98.5		70-130	1.91	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.17	5.0	µg/L	10.0	ND	71.7		70-130	1.26	30	V-05
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0	ND	100		70-130	2.08	30	
1,2-Dichlorobenzene	9.70	1.0	µg/L	10.0	ND	97.0		70-130	0.310	30	
1,3-Dichlorobenzene	9.58	1.0	µg/L	10.0	ND	95.8		70-130	4.19	30	
1,4-Dichlorobenzene	9.48	1.0	µg/L	10.0	ND	94.8		70-130	0.840	30	
Dichlorodifluoromethane (Freon 12)	11.2	2.0	µg/L	10.0	ND	112		70-130	0.178	30	
1,1-Dichloroethane	11.1	1.0	µg/L	10.0	ND	111		70-130	3.45	30	
1,2-Dichloroethane	9.24	1.0	µg/L	10.0	ND	92.4		70-130	4.96	30	
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0	ND	104		70-130	0.288	30	
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0	0.680	99.4		70-130	0.00	30	
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0	ND	103		70-130	1.54	30	
1,2-Dichloropropane	11.0	1.0	µg/L	10.0	ND	110		70-130	0.636	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 B353595 - SW-846 5030B											
Matrix Spike Dup (B353595-MSD1)	**Source: 23I3738-03**			Prepared: 10/02/23 Analyzed: 10/03/23							
cis-1,3-Dichloropropene	8.99	0.50	µg/L	10.0	ND	89.9		70-130	2.63	30	
trans-1,3-Dichloropropene	8.75	0.50	µg/L	10.0	ND	87.5		70-130	8.53	30	
1,4-Dioxane	75.0	50	µg/L	100	ND	75.0		70-130	11.2	30	
Ethylbenzene	10.0	1.0	µg/L	10.0	ND	100		70-130	0.400	30	
2-Hexanone (MBK)	76.4	10	µg/L	100	ND	76.4		70-130	5.39	30	
Isopropylbenzene (Cumene)	9.45	1.0	µg/L	10.0	ND	94.5		70-130	3.12	30	
Methyl Acetate	6.38	1.0	µg/L	10.0	ND	**63.8**	*	70-130	5.04	30	MS-07A
Methyl tert-Butyl Ether (MTBE)	9.51	1.0	µg/L	10.0	ND	95.1		70-130	2.08	30	
Methyl Cyclohexane	9.71	1.0	µg/L	10.0	ND	97.1		70-130	1.87	30	
Methylene Chloride	10.6	5.0	µg/L	10.0	ND	106		70-130	1.58	30	
4-Methyl-2-pentanone (MIBK)	81.9	10	µg/L	100	ND	81.9		70-130	3.57	30	
Styrene	9.60	1.0	µg/L	10.0	ND	96.0		70-130	0.104	30	
1,1,2,2-Tetrachloroethane	9.80	0.50	µg/L	10.0	ND	98.0		70-130	0.409	30	
Tetrachloroethylene	10.4	1.0	µg/L	10.0	ND	104		70-130	5.71	30	
Toluene	10.8	1.0	µg/L	10.0	ND	108		70-130	2.02	30	
1,2,3-Trichlorobenzene	6.76	5.0	µg/L	10.0	ND	**67.6**	*	70-130	8.00	30	MS-07A, V-05
1,2,4-Trichlorobenzene	6.88	1.0	µg/L	10.0	ND	**68.8**	*	70-130	15.2	30	MS-07A, V-05
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104		70-130	0.480	30	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0	ND	103		70-130	6.86	30	
Trichloroethylene	10.5	1.0	µg/L	10.0	ND	105		70-130	3.36	30	
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0	ND	112		70-130	1.17	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0	ND	108		70-130	2.73	30	
Vinyl Chloride	12.6	2.0	µg/L	10.0	ND	126		70-130	0.159	30	V-20
m+p Xylene	20.2	2.0	µg/L	20.0	ND	101		70-130	1.45	20	
o-Xylene	9.25	1.0	µg/L	10.0	ND	92.5		70-130	1.18	30	
Xylenes (total)	29.4	1.0	µg/L	30.0	ND	98.1		0-200	0.613		
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.2		70-130			
Surrogate: Toluene-d8	*26.6*		µg/L	25.0		106		70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		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).
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-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.
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
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
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
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,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
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
Trichloroethylene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	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	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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CHAIN OF CUSTODY RECORD (New York)

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Minneapolis, MN 55414

Page 3 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Arcadis

Address: 1 Lincoln Center 110 W. Fayette St.

Phone: 315-480-7347

Project Name: Sachs Dry Cleaners

Project Location: Brewerton, NY

Project Number: 30135043

Project Manager: Stefan Bagnato

Pace Analytical Quote Name/Number 2308444

Invoice Recipient: Bill NYS DEC

Sampled By: Kyle Barber

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: Stefan.Bagnato@arcadis
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	ANALYSIS REQUESTED											# of Containers
								2											[2] Preservation Code
								HT											
								V											[3] Container Code
1	IW-19	9-27-23	0940		X			X											
2	IW-24	9-27-23	0920		X			X											
~~3~~ AAM	~~IW-25~~ KB	~~9-27-23~~																	
3 AAM	IW-29 (MS/MSD)	9-27-23	0910		X			X											
4	DUP-092723-01	—	—		X			X											
5	DUP-092723-02	—	—		X			X											
6	TRIP BLANK	—	—		—	DI		X											

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

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

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
1		9-27-23 1300		9-27 13cc
2				
3				
4				
5				

2.1°C

0716 9-28-23

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 Jacks Dry Cleaners

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location Beaverton, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AM 9/28/23 716

Back-Sheet By / Date / Time LA 9/28/23 830

Temperature Method GUN # 5

Temp ✓ 6° C Actual Temperature 2.1

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

original work order split after first 2 pages → 23I3729

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	☑	☒ AAM
MS/MSD	☑	☒ 4A
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

Quaitrax ID: 120836

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

Sample	Soils Jars (Circle Amb/Clear)				Ambers					Plastics										VOA Vials					Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter			250mL	100mL	1 Liter		500mL		250mL						Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact					
					Unpreserved	HCL	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc										
1																					2									
2																					1									
3																					6									
4																					2									
5																					1									
6																					3									
7																														
8																														
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APPENDIX C

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 23I1607
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: November 6, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IW-25	23I1607-01	Water
2	MW-2	23I1607-02	Water
3	IW-31	23I1607-03	Water
4	MW-5	23I1607-04	Water
5	TRIP BLANK	23I1607-05	Water

A Data Usability Summary Review was performed on the analytical data for four water samples and one aqueous trip blank sample collected on September 13, 2023 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW 846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries

- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
09/18/23 (0938)	Chloromethane	42.5%	UJ	All Samples

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- The following table presents LCS/LCSD percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	LCS %R/LCSD %R/RPD	Qualifier	Affected Samples
B351969-BS1	Methyl Acetate	131%/138%/OK	None	Samples ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- Sample 1 was analyzed at a 10X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1 - FORM I
ANALYSIS DATA SHEET

IW-25

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-01	File ID:	E23V26119.D
Sampled:	09/13/23 09:55	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 16:57
Solids:		Preparation:	SW-846 5030B	Dilution:	10
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		20	500	
71-43-2	Benzene		1.8	10	
74-97-5	Bromochloromethane		2.8	10	
75-27-4	Bromodichloromethane		1.6	5.0	
75-25-2	Bromoform		4.1	10	
74-83-9	Bromomethane		13	20	~~V-05, V-34~~
78-93-3	2-Butanone (MEK)		17	200	
75-15-0	Carbon Disulfide		16	50	
56-23-5	Carbon Tetrachloride		1.6	50	
108-90-7	Chlorobenzene		1.2	10	
124-48-1	Chlorodibromomethane		2.0	5.0	
75-00-3	Chloroethane		3.4	20	
67-66-3	Chloroform		1.4	20	
74-87-3	Chloromethane		5.0	20	US ~~V-05, V-34~~
110-82-7	Cyclohexane		18	50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		8.5	50	
106-93-4	1,2-Dibromoethane (EDB)		1.6	5.0	
95-50-1	1,2-Dichlorobenzene		1.3	10	
541-73-1	1,3-Dichlorobenzene		1.4	10	
106-46-7	1,4-Dichlorobenzene		1.3	10	
75-71-8	Dichlorodifluoromethane (Freon 12)		1.6	20	
75-34-3	1,1-Dichloroethane		1.4	10	
107-06-2	1,2-Dichloroethane		3.0	10	
75-35-4	1,1-Dichloroethylene		1.4	10	
156-59-2	cis-1,2-Dichloroethylene	950	1.4	10	
156-60-5	trans-1,2-Dichloroethylene	8.0	1.7	10	J
78-87-5	1,2-Dichloropropane		1.9	10	
10061-01-5	cis-1,3-Dichloropropene		1.6	5.0	
10061-02-6	trans-1,3-Dichloropropene		1.4	5.0	

MT 9/19/23

1 - FORM I
ANALYSIS DATA SHEET

IW-25

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-01	File ID:	E23V26119.D
Sampled:	09/13/23 09:55	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 16:57
Solids:		Preparation:	SW-846 5030B	Dilution:	10
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		180	500	
100-41-4	Ethylbenzene		2.2	10	
591-78-6	2-Hexanone (MBK)		12	100	
98-82-8	Isopropylbenzene (Cumene)		1.5	10	
79-20-9	Methyl Acetate		6.1	10	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		1.7	10	
108-87-2	Methyl Cyclohexane		1.6	10	
75-09-2	Methylene Chloride		1.8	50	
108-10-1	4-Methyl-2-pentanone (MIBK)		13	100	
100-42-5	Styrene		1.5	10	
79-34-5	1,1,2,2-Tetrachloroethane		1.4	5.0	
127-18-4	Tetrachloroethylene		1.7	10	
108-88-3	Toluene		2.2	10	
87-61-6	1,2,3-Trichlorobenzene		3.4	50	
120-82-1	1,2,4-Trichlorobenzene		3.0	10	
71-55-6	1,1,1-Trichloroethane		1.5	10	
79-00-5	1,1,2-Trichloroethane		1.9	10	
79-01-6	Trichloroethylene	8.2	1.7	10	J
75-69-4	Trichlorofluoromethane (Freon 11)		1.5	20	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		2.1	10	
75-01-4	Vinyl Chloride	170	2.4	20	
1330-20-7	Xylenes (total)		10	10	

MT 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

MW-2

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-02	File ID:	E23V26113.D
Sampled:	09/13/23 11:00	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 14:12
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	2.5	2.0	50	~~V-35;~~ J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	~~V-05, V-34~~
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform	0.30	0.14	2.0	J
74-87-3	Chloromethane		0.50	2.0	~~V-05, V-34~~
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.97	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	

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1 - FORM I
ANALYSIS DATA SHEET

MW-2

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-02	File ID:	E23V26113.D
Sampled:	09/13/23 11:00	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 14:12
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	16	0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	1.6	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

3

1 - FORM I
ANALYSIS DATA SHEET

IW-31

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-03	File ID:	E23V26114.D
Sampled:	09/13/23 01:10	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 14:40
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	3.0	2.0	50	~~V-35~~, J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	~~V-05, V-34~~
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	US ~~V-05, V-34~~
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	1.4	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	

MT 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-31

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-03	File ID:	E23V26114.D
Sampled:	09/13/23 01:10	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 14:40
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	0.19	0.17	1.0	J
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	0.68	0.24	2.0	J
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

MW-5

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-04	File ID:	E23V26115.D
Sampled:	09/13/23 12:05	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 15:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	2.7	2.0	50	~~V-35~~, J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	~~V-05, V-34~~
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	UJ ~~V-05, V-34~~
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	

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1 - FORM I
ANALYSIS DATA SHEET

MW-5

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1607-04	File ID:	E23V26115.D
Sampled:	09/13/23 12:05	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 15:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/4/23

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1 - FORM I
ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Trip Blank Water	Laboratory ID:	23I1607-05	File ID:	E23V26109.D
Sampled:	09/13/23 00:00	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 12:23
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982	Instrument:	GCMSVOA5

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	~~V-05, V-34~~
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	V5 ~~V-05, V-34~~
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	

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1 - FORM I
ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Pace New England			Work Order:	23I1607
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Trip Blank Water	Laboratory ID:	23I1607-05	File ID:	E23V26109.D
Sampled:	09/13/23 00:00	Prepared:	09/14/23 06:17	Analyzed:	09/18/23 12:23
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B351969	Sequence:	S093557	Calibration:	2300982
Instrument:	GCMSVOA5				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
123-91-1	1,4-Dioxane		18	50	
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 23I1609
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: November 6, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IW-25	23I1609-01	Water
2	IW-18	23I1609-02	Water
3	MW-2	23I1609-03	Water
4	IW-31	23I1609-04	Water
5	MW-8	23I1609-05	Water
5MS	MW-8MS	23I1609-05MS	Water
5MSD	MW-8MSD	23I1609-05MSD	Water
6	MW-5	23I1609-06	Water
7	DUP-091323	23I1609-07	Water
8	EB-091323	23I1609-08	Water

A Data Usability Summary Review was performed on the analytical data for seven water samples and one aqueous equipment blank sample collected on September 13, 2023 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Draft Method for the Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS.

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Draft Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the NYSDEC Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness

- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted and analyzed within holding times.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field blank sample results are summarized below.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EB-091323	PFBA	1.8	J+/U	All Samples

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values except for the following.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
5	PFBS	153%/146%/OK	J
	PFHxS	OK/149%/OK	

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for PFBS. These results were qualified as estimated (J).

Compound	MW-2 ng/L	DUP-091323 ng/L	RPD	Qualifier
PFBA	18	18	0%	None
PFPeA	38	38	0%	
PFHxA	22	23	4%	
PFHpA	10	9.5	5%	
PFOA	22	23	4%	
PFNA	2.4	2.2	9%	
PFDA	0.57	0.56	2%	
PFBS	4.1	5.8	34%	J
PFPeS	1.6	1.8	12%	None
PFHxS	6.0	5.8	3%	
PFHpS	0.55	0.54	2%	
PFOS	35	36	3%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1 - FORM I
ANALYSIS DATA SHEET

IW-25

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-01	File ID:	23I1609-01.d
Sampled:	09/13/23 09:55	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:07
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	564.32 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	16	1.3	3.5	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	33	0.31	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	18	0.19	0.89	
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.3	0.23	0.89	
335-67-1	Perfluorooctanoic acid (PFOA)	13	0.20	0.89	
375-95-1	Perfluorononanoic acid (PFNA)	1.3	0.17	0.89	
335-76-2	Perfluorodecanoic acid (PFDA)	0.34	0.16	0.89	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.24	0.89	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.23	0.89	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.24	0.89	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.22	0.89	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.3	0.23	0.89	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.83	0.21	0.89	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.9	0.18	0.89	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.41	0.27	0.89	J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	28	0.28	0.89	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.26	0.89	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.89	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.24	0.89	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.62	3.5	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.87	3.5	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.96	3.5	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.27	0.89	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.37	0.89	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.27	0.89	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.39	0.89	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.20	0.89	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.3	8.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.2	8.9	

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ANALYSIS DATA SHEET

IW-25

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-01	File ID:	23I1609-01.d
Sampled:	09/13/23 09:55	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:07
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	564.32 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.93	3.5	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON,		0.61	3.5	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.75	3.5	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.86	3.5	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.6	8.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.0	44	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7::		7.8	44	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.43	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.44	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.36	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.77	1.8	

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1 - FORM I
ANALYSIS DATA SHEET

IW-18

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-02	File ID:	23I1609-02.d
Sampled:	09/13/23 10:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:22
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	243.35 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	18	3.0	8.2	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	17	0.71	4.1	
307-24-4	Perfluorohexanoic acid (PFHxA)	13	0.44	2.1	
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.2	0.52	2.1	
335-67-1	Perfluorooctanoic acid (PFOA)	11	0.46	2.1	
375-95-1	Perfluorononanoic acid (PFNA)	1.0	0.39	2.1	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.38	2.1	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.56	2.1	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.53	2.1	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.56	2.1	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.51	2.1	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	7.6	0.53	2.1	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.7	0.49	2.1	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.3	0.42	2.1	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.63	2.1	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14	0.65	2.1	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.60	2.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.64	2.1	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.55	2.1	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		1.4	8.2	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		2.0	8.2	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		2.2	8.2	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.63	2.1	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.85	2.1	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.63	2.1	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.90	2.1	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.45	2.1	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		5.4	21	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		5.0	21	

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1 - FORM I
ANALYSIS DATA SHEET

IW-18

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-02	File ID:	23I1609-02.d
Sampled:	09/13/23 10:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:22
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	243.35 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		2.1	8.2	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		1.4	8.2	
756426-58-1	9Cl-PF3ONS (F53B Minor)		1.8	8.2	
763051-92-9	11Cl-PF3OUdS (F53B Major)		2.0	8.2	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		3.7	21	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		21	100	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		18	100	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		1.0	4.1	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		1.0	4.1	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.83	4.1	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		1.8	4.1	

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1 - FORM I
ANALYSIS DATA SHEET

MW-2

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-03	File ID:	23I1609-03.d
Sampled:	09/13/23 11:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:38
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	564.73 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	18	1.3	3.5	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	38	0.31	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	22	0.19	0.89	
375-85-9	Perfluoroheptanoic acid (PFHpA)	10	0.23	0.89	
335-67-1	Perfluorooctanoic acid (PFOA)	22	0.20	0.89	
375-95-1	Perfluorononanoic acid (PFNA)	2.4	0.17	0.89	
335-76-2	Perfluorodecanoic acid (PFDA)	0.57	0.16	0.89	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.24	0.89	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.23	0.89	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.24	0.89	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.22	0.89	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.1	0.23	0.89	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.6	0.21	0.89	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	6.0	0.18	0.89	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.55	0.27	0.89	J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35	0.28	0.89	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.26	0.89	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.89	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.24	0.89	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.62	3.5	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.87	3.5	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.96	3.5	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.27	0.89	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.37	0.89	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.27	0.89	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.39	0.89	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.20	0.89	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.3	8.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.2	8.9	

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1 - FORM I
ANALYSIS DATA SHEET

MW-2

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-03	File ID:	23I1609-03.d
Sampled:	09/13/23 11:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:38
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	564.73 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.93	3.5	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.61	3.5	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.75	3.5	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.86	3.5	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.6	8.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.0	44	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		7.8	44	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.43	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.44	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.36	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.77	1.8	

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1 - FORM I
ANALYSIS DATA SHEET

IW-31

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-04	File ID:	23I1609-04.d
Sampled:	09/13/23 11:10	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:54
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	241.38 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.3	3.0	8.3	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	9.6	0.72	4.1	
307-24-4	Perfluorohexanoic acid (PFHxA)	4.8	0.45	2.1	
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.0	0.53	2.1	J
335-67-1	Perfluorooctanoic acid (PFOA)	10	0.47	2.1	
375-95-1	Perfluorononanoic acid (PFNA)	2.0	0.40	2.1	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.38	2.1	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.57	2.1	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.53	2.1	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.56	2.1	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.52	2.1	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.5	0.54	2.1	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.64	0.49	2.1	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.2	0.43	2.1	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.63	2.1	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	53	0.66	2.1	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.61	2.1	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.65	2.1	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.55	2.1	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		1.4	8.3	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		2.0	8.3	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		2.2	8.3	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.64	2.1	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.86	2.1	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.64	2.1	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.91	2.1	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.46	2.1	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		5.4	21	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		5.1	21	

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1 - FORM I
ANALYSIS DATA SHEET

IW-31

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-04	File ID:	23I1609-04.d
Sampled:	09/13/23 11:10	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 16:54
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	241.38 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		2.2	8.3	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		1.4	8.3	
756426-58-1	9Cl-PF3ONS (F53B Minor)		1.8	8.3	
763051-92-9	11Cl-PF3OUdS (F53B Major)		2.0	8.3	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		3.7	21	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		21	100	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		18	100	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		1.0	4.1	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		1.0	4.1	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.83	4.1	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		1.8	4.1	

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1 - FORM I
ANALYSIS DATA SHEET

MW-8

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-05	File ID:	23I1609-05.d
Sampled:	09/13/23 12:25	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:09
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	548.35 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	4.9	1.3	3.6	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.0	0.32	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	1.8	0.20	0.91	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.45	0.23	0.91	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.83	0.21	0.91	J
375-95-1	Perfluorononanoic acid (PFNA)		0.17	0.91	
335-76-2	Perfluorodecanoic acid (PFDA)		0.17	0.91	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.25	0.91	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.24	0.91	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.25	0.91	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.23	0.91	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.9	0.24	0.91	J ~~MS-12~~
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.40	0.22	0.91	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	9.6	0.19	0.91	J ~~MS-22~~
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.28	0.91	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.6	0.29	0.91	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.27	0.91	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.29	0.91	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.24	0.91	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.64	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.90	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.99	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.28	0.91	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.38	0.91	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.28	0.91	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.40	0.91	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.20	0.91	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.4	9.1	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.2	9.1	

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1 - FORM I
ANALYSIS DATA SHEET

MW-8

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-05	File ID:	23I1609-05.d
Sampled:	09/13/23 12:25	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:09
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	548.35 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.95	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.63	3.6	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.78	3.6	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.88	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.6	9.1	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.3	46	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		8.0	46	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.45	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.45	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.37	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.79	1.8	

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1 - FORM I
ANALYSIS DATA SHEET

MW-5

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-06	File ID:	23I1609-06.d
Sampled:	09/13/23 12:05	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:25
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	558.47 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	11	1.3	3.6	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	11	0.31	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	6.3	0.19	0.90	
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.0	0.23	0.90	
335-67-1	Perfluorooctanoic acid (PFOA)	6.7	0.20	0.90	
375-95-1	Perfluorononanoic acid (PFNA)	0.54	0.17	0.90	J
335-76-2	Perfluorodecanoic acid (PFDA)		0.17	0.90	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.24	0.90	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.23	0.90	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.24	0.90	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.22	0.90	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.9	0.23	0.90	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.70	0.21	0.90	J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.1	0.18	0.90	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.27	0.90	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.7	0.28	0.90	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.26	0.90	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.90	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.24	0.90	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.62	3.6	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (t		0.88	3.6	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.97	3.6	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.29	0.27	0.90	J
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.37	0.90	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.28	0.90	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.39	0.90	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.20	0.90	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.4	9.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.2	9.0	

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1 - FORM I
ANALYSIS DATA SHEET

MW-5

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-06	File ID:	23I1609-06.d
Sampled:	09/13/23 12:05	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:25
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	558.47 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.94	3.6	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.62	3.6	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.76	3.6	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.87	3.6	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.6	9.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.1	45	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		7.9	45	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.44	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.45	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.36	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.78	1.8	

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1 - FORM I
ANALYSIS DATA SHEET

DUP-091323

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-07	File ID:	23I1609-07.d
Sampled:	09/13/23 00:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:41
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	566.3 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	18	1.3	3.5	J+
2706-90-3	Perfluoropentanoic acid (PFPeA)	38	0.31	1.8	
307-24-4	Perfluorohexanoic acid (PFHxA)	23	0.19	0.88	
375-85-9	Perfluoroheptanoic acid (PFHpA)	9.5	0.23	0.88	
335-67-1	Perfluorooctanoic acid (PFOA)	23	0.20	0.88	
375-95-1	Perfluorononanoic acid (PFNA)	2.2	0.17	0.88	
335-76-2	Perfluorodecanoic acid (PFDA)	0.56	0.16	0.88	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.24	0.88	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.23	0.88	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.24	0.88	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.22	0.88	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.8	0.23	0.88	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.8	0.21	0.88	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.8	0.18	0.88	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.54	0.27	0.88	J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36	0.28	0.88	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.26	0.88	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.28	0.88	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.23	0.88	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.62	3.5	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.87	3.5	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.96	3.5	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.27	0.88	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.37	0.88	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.27	0.88	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.39	0.88	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.20	0.88	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.3	8.8	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.2	8.8	

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1 - FORM I
ANALYSIS DATA SHEET

DUP-091323

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-07	File ID:	23I1609-07.d
Sampled:	09/13/23 00:00	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:41
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	566.3 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.92	3.5	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.61	3.5	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.75	3.5	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.85	3.5	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.6	8.8	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.0	44	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7::		7.8	44	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEI		0.43	1.8	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.44	1.8	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.35	1.8	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.76	1.8	

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1 - FORM I
ANALYSIS DATA SHEET

EB-091323

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-08	File ID:	23I1609-08.d
Sampled:	09/13/23 12:45	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:56
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	525.18 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	1.8	1.4	3.8	J
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.33	1.9	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.21	0.95	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.24	0.95	
335-67-1	Perfluorooctanoic acid (PFOA)		0.21	0.95	
375-95-1	Perfluorononanoic acid (PFNA)		0.18	0.95	
335-76-2	Perfluorodecanoic acid (PFDA)		0.18	0.95	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.26	0.95	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.25	0.95	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.26	0.95	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.24	0.95	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.25	0.95	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.23	0.95	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.20	0.95	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.29	0.95	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.30	0.95	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.28	0.95	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.30	0.95	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.25	0.95	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.66	3.8	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.94	3.8	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		1.0	3.8	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.29	0.95	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.40	0.95	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.29	0.95	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.42	0.95	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.21	0.95	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		2.5	9.5	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		2.3	9.5	

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1 - FORM I
ANALYSIS DATA SHEET

EB-091323

Laboratory:	Pace New England			Work Order:	23I1609
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I1609-08	File ID:	23I1609-08.d
Sampled:	09/13/23 12:45	Prepared:	10/02/23 00:00	Analyzed:	10/03/23 17:56
Solids:		Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	525.18 mL / 5 mL				
Batch:	B352020	Sequence:	S094297	Calibration:	2301140
Instrument:	QQQ5				

CAS NO.	COMPOUND	CONC. (ng/L)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.99	3.8	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON.		0.65	3.8	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.81	3.8	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.92	3.8	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		1.7	9.5	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		9.7	48	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7::		8.4	48	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.47	1.9	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.47	1.9	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.38	1.9	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.82	1.9	

MT 10/13

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 23I3729
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: November 6, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-01R	23I3729-01	Water
1MS	MW-01RMS	23I3729-01MS	Water
1MSD	MW-01RMSD	23I3729-01MSD	Water
2	MW-7	23I3729-02	Water
3	MW-9	23I3729-03	Water
4	MW-12	23I3729-04	Water
5	MW-13	23I3729-05	Water
6	MW-14	23I3729-06	Water
7	MW-14BR	23I3729-07	Water
8	MW-15	23I3729-08	Water
9	MW-15BR	23I3729-09	Water
10	MW-16	23I3729-10	Water
11	MW-16BR	23I3729-11	Water
12	MW-17	23I3729-12	Water
13	MW-17BR	23I3729-13	Water
14	IW-1	23I3729-14	Water
15	IW-2	23I3729-15	Water
16	IW-3	23I3729-16	Water
17	IW-7	23I3729-17	Water
18	IW-11	23I3729-18	Water
19	IW-14	23I3729-19	Water
20	IW-17	23I3729-20	Water

A Data Usability Summary Review was performed on the analytical data for twenty water samples collected on September 27, 2023 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
10/02/23 (2002)	Bromomethane	35.4%	UJ	13-20
	Vinyl Chloride	25.5%	J/UJ	

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample	Compound	MS %R/MSD %R/ RPD	Qualifier
1	1,2-Dibromo-3-chloropropane	69.4%/69.5%/OK	UJ
	cis-1,2-Dichloroethylene	139%/OK/OK	J
	1,2,3-Trichlorobenzene	68.9%/OK/OK	UJ
	1,2,4-Trichlorobenzene	69.0%/OK/OK	
	Vinyl Chloride	162%/143%/OK	J

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- The LCS/LCSD exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- Sample 5 was analyzed at a 4X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.
- Sample 2 exhibited a high concentration of vinyl chloride over the instrument calibration range and was flagged (E) by the laboratory. The sample was diluted 20X and reanalyzed. The dilution result for this compound should be used for reporting purposes.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-17 ug/L	DUP-092723-01 ug/L	RPD	Qualifier
Acetone	4.8	ND	NC	None
Benzene	0.37	ND	NC	

Compound	MW-17BR ug/L	DUP-092723-02 ug/L	RPD	Qualifier
None	ND	ND	-	-

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1 - FORM I
ANALYSIS DATA SHEET

MW-01R

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-01	File ID:	C22V27510.D
Sampled:	09/27/23 08:45	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 11:10
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	UJ ~~MS-07A_V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane	1.0	0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	21	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

MW-01R

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-01	File ID:	C22V27510.D
Sampled:	09/27/23 08:45	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 11:10
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	0.79	0.17	1.0	J
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	UJ
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	UJ
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	4.1	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	11	0.24	2.0	J ~~MS-12, V-06~~
1330-20-7	Xylenes (total)		1.0	1.0	

MJ 1/4/23

1 - FORM I
ANALYSIS DATA SHEET

MW-7

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-02	File ID:	C22V27511.D
Sampled:	09/27/23 09:50	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 11:36
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.1	2.0	50	J
71-43-2	Benzene	0.45	0.18	1.0	J
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene	0.18	0.14	1.0	J
156-59-2	cis-1,2-Dichloroethylene	62	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	0.45	0.17	1.0	J
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

MW-7

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-02	File ID:	C22V27511.D
Sampled:	09/27/23 09:50	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 11:36
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	0.24	0.17	1.0	J
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	240	0.24	2.0	E, V-06
1330-20-7	Xylenes (total)		1.0	1.0	

Use Dilution

MT 10/4/23

1 - FORM I
ANALYSIS DATA SHEET

MW-7

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-02RE1	File ID:	B23V27928.D
Sampled:	09/27/23 09:50	Prepared:	10/03/23 13:48	Analyzed:	10/06/23 17:34
Solids:		Preparation:	SW-846 5030B	Dilution:	20
Initial/Final:	5 mL / 5 mL				
Batch:	B353818	Sequence:	S094565	Calibration:	2301046
Instrument:	GCMSVOA2				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
75-01-4	Vinyl Chloride	210	4.7	40	

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1 - FORM I
ANALYSIS DATA SHEET

MW-9

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-03	File ID:	C22V27520.D
Sampled:	09/27/23 08:55	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 15:36
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene	0.66	0.14	1.0	J
156-59-2	cis-1,2-Dichloroethylene	180	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene	2.3	0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

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1 - FORM I
ANALYSIS DATA SHEET

MW-9

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-03	File ID:	C22V27520.D
Sampled:	09/27/23 08:55	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 15:36
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene	14	0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane	0.32	0.19	1.0	J
79-01-6	Trichloroethylene	100	0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	39	0.24	2.0	~~V-06~~
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

MW-12

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-04	File ID:	C22V27512.D
Sampled:	09/27/23 10:15	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:03
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.3	2.0	50	J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane	11	0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	1.2	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

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1 - FORM I
ANALYSIS DATA SHEET

MW-12

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-04	File ID:	C22V27512.D
Sampled:	09/27/23 10:15	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:03
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.32	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	0.93	0.17	1.0	J
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

MW-13

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-05	File ID:	C22V27521.D
Sampled:	09/27/23 09:05	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 16:02
Solids:		Preparation:	SW-846 5030B	Dilution:	4
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		8.0	200	
71-43-2	Benzene		0.74	4.0	
74-97-5	Bromochloromethane		1.1	4.0	
75-27-4	Bromodichloromethane		0.63	2.0	
75-25-2	Bromoform		1.6	4.0	
74-83-9	Bromomethane		5.3	8.0	
78-93-3	2-Butanone (MEK)		6.7	80	
75-15-0	Carbon Disulfide		6.2	20	
56-23-5	Carbon Tetrachloride		0.65	20	
108-90-7	Chlorobenzene		0.48	4.0	
124-48-1	Chlorodibromomethane		0.80	2.0	
75-00-3	Chloroethane		1.4	8.0	
67-66-3	Chloroform		0.56	8.0	
74-87-3	Chloromethane		2.0	8.0	
110-82-7	Cyclohexane		7.1	20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		3.4	20	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.64	2.0	
95-50-1	1,2-Dichlorobenzene		0.52	4.0	
541-73-1	1,3-Dichlorobenzene		0.55	4.0	
106-46-7	1,4-Dichlorobenzene		0.51	4.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.64	8.0	
75-34-3	1,1-Dichloroethane		0.55	4.0	
107-06-2	1,2-Dichloroethane		1.2	4.0	
75-35-4	1,1-Dichloroethylene	1.0	0.56	4.0	J
156-59-2	cis-1,2-Dichloroethylene	370	0.56	4.0	
156-60-5	trans-1,2-Dichloroethylene	5.6	0.69	4.0	
78-87-5	1,2-Dichloropropane		0.77	4.0	
10061-01-5	cis-1,3-Dichloropropene		0.65	2.0	
10061-02-6	trans-1,3-Dichloropropene		0.57	2.0	
123-91-1	1,4-Dioxane		72	200	

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1 - FORM I
ANALYSIS DATA SHEET

MW-13

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-05	File ID:	C22V27521.D
Sampled:	09/27/23 09:05	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 16:02
Solids:		Preparation:	SW-846 5030B	Dilution:	4
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.88	4.0	
591-78-6	2-Hexanone (MBK)		4.8	40	
98-82-8	Isopropylbenzene (Cumene)		0.60	4.0	
79-20-9	Methyl Acetate		2.4	4.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.68	4.0	
108-87-2	Methyl Cyclohexane		0.62	4.0	
75-09-2	Methylene Chloride		0.71	20	
108-10-1	4-Methyl-2-pentanone (MIBK)		5.3	40	
100-42-5	Styrene		0.60	4.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.55	2.0	
127-18-4	Tetrachloroethylene	550	0.67	4.0	
108-88-3	Toluene		0.89	4.0	
87-61-6	1,2,3-Trichlorobenzene		1.4	20	
120-82-1	1,2,4-Trichlorobenzene		1.2	4.0	
71-55-6	1,1,1-Trichloroethane		0.60	4.0	
79-00-5	1,1,2-Trichloroethane		0.76	4.0	
79-01-6	Trichloroethylene	280	0.70	4.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.62	8.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.83	4.0	
75-01-4	Vinyl Chloride	43	0.95	8.0	~~V-06~~
1330-20-7	Xylenes (total)		4.0	4.0	

MT 10/13

6

1 - FORM I
ANALYSIS DATA SHEET

MW-14

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-06	File ID:	C22V27513.D
Sampled:	09/27/23 09:35	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:30
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	5.2	2.0	50	J
71-43-2	Benzene	1.7	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.22	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

6

1 - FORM I
ANALYSIS DATA SHEET

MW-14

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-06	File ID:	C22V27513.D
Sampled:	09/27/23 09:35	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:30
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.57	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 11/4/23

1 - FORM I
ANALYSIS DATA SHEET

MW-14BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-07	File ID:	C22V27514.D
Sampled:	09/27/23 09:30	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:56
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.5	2.0	50	J
71-43-2	Benzene	0.49	0.18	1.0	J
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.92	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

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1 - FORM I
ANALYSIS DATA SHEET

MW-14BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-07	File ID:	C22V27514.D
Sampled:	09/27/23 09:30	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 12:56
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene	0.50	0.17	1.0	J
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

MW-15

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-08	File ID:	C22V27515.D
Sampled:	09/27/23 11:00	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 13:22
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.8	2.0	50	J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT WW/23

1 - FORM I
ANALYSIS DATA SHEET

MW-15

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-08	File ID:	C22V27515.D
Sampled:	09/27/23 11:00	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 13:22
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

MW-15BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-09	File ID:	C22V27516.D
Sampled:	09/27/23 10:55	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 13:49
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	3.8	2.0	50	J
71-43-2	Benzene	0.42	0.18	1.0	J
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	1.5	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MR 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-15BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-09	File ID:	C22V27516.D
Sampled:	09/27/23 10:55	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 13:49
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.39	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	1.6	0.24	2.0	J
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

10

1 - FORM I
ANALYSIS DATA SHEET

MW-16

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-10	File ID:	C22V27517.D
Sampled:	09/27/23 10:40	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 14:16
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 10/4/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-16

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-10	File ID:	C22V27517.D
Sampled:	09/27/23 10:40	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 14:16
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

MW-16BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-11	File ID:	C22V27518.D
Sampled:	09/27/23 10:35	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 14:42
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene	1.7	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane	0.17	0.14	1.0	J
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.91	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

1 - FORM I
ANALYSIS DATA SHEET

MW-16BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-11	File ID:	C22V27518.D
Sampled:	09/27/23 10:35	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 14:42
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-17

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-12	File ID:	C22V27519.D
Sampled:	09/27/23 11:15	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 15:09
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.8	2.0	50	J
71-43-2	Benzene	0.37	0.18	1.0	J
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-17

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-12	File ID:	C22V27519.D
Sampled:	09/27/23 11:15	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 15:09
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353593	Sequence:	S094225	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/3/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-17BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-13	File ID:	C22V27538.D
Sampled:	09/27/23 11:20	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 23:34
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

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1 - FORM I
ANALYSIS DATA SHEET

MW-17BR

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-13	File ID:	C22V27538.D
Sampled:	09/27/23 11:20	Prepared:	10/02/23 07:27	Analyzed:	10/02/23 23:34
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

MT 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-1

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-14	File ID:	C22V27539.D
Sampled:	09/27/23 11:05	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:01
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	5.3	2.0	50	J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

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1 - FORM I
ANALYSIS DATA SHEET

IW-1

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-14	File ID:	C22V27539.D
Sampled:	09/27/23 11:05	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:01
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	US
1330-20-7	Xylenes (total)		1.0	1.0	

MT 11/1/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-2

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-15	File ID:	C22V27540.D
Sampled:	09/27/23 11:10	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:28
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	U5
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-2

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-15	File ID:	C22V27540.D
Sampled:	09/27/23 11:10	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:28
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

MI WW/S

16

1 - FORM I
ANALYSIS DATA SHEET

IW-3

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-16	File ID:	C22V27541.D
Sampled:	09/27/23 10:50	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:54
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.8	2.0	50	J
71-43-2	Benzene	1.4	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	VS
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.42	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MJ WW/B

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1 - FORM I
ANALYSIS DATA SHEET

IW-3

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-16	File ID:	C22V27541.D
Sampled:	09/27/23 10:50	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 00:54
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

MF 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-7

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-17	File ID:	C22V27542.D
Sampled:	09/27/23 10:20	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 01:21
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene	1.4	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.76	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MF 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-7

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-17	File ID:	C22V27542.D
Sampled:	09/27/23 10:20	Prepared:	10/02/23 07:27	Analyzed:	10/03/23 01:21
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	1.2	0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	U5
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/4/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-11

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-18	File ID:	C22V27543.D
Sampled:	09/27/23 10:10	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 01:47
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.6	2.0	50	J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.41	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MF 11/6/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-11

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-18	File ID:	C22V27543.D
Sampled:	09/27/23 10:10	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 01:47
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.34	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	V-05
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V3
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/4/23

1 - FORM I
ANALYSIS DATA SHEET

IW-14

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-19	File ID:	C22V27544.D
Sampled:	09/27/23 10:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 02:14
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.9	2.0	50	J
71-43-2	Benzene	0.98	0.18	1.0	J
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	VS
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	V-05
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	2.2	0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-14

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-19	File ID:	C22V27544.D
Sampled:	09/27/23 10:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 02:14
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.98	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride	0.51	0.24	2.0	J
1330-20-7	Xylenes (total)		1.0	1.0	

MT 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-17

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-20	File ID:	C22V27545.D
Sampled:	09/27/23 10:05	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 02:41
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	4.7	2.0	50	J
71-43-2	Benzene	1.6	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	VS
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	V-05
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.77	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MF 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-17

Laboratory:	Pace New England			Work Order:	23I3729
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3729-20	File ID:	C22V27545.D
Sampled:	09/27/23 10:05	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 02:41
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.31	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	
1330-20-7	Xylenes (total)		1.0	1.0	

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
JACKS DRY CLEANERS, BREWERTON, NEW YORK

Client: Arcadis, Clifton Park, New York
SDG: 23I3738
Laboratory: Con-Test, East Longmeadow, Massachusetts
Site: Jacks Dry Cleaners, Brewerton, New York
Date: November 6, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	IW-19	23I3738-01	Water
2	IW-24	23I3738-02	Water
3	IW-29	23I3738-03	Water
3MS	IW-29MS	23I3738-03MS	Water
3MSD	IW-29MSD	23I3738-03MSD	Water
4	DUP-092723-01	23I3738-04	Water
5	DUP-092723-02	23I3738-05	Water
6	TRIP BLANK	23I3738-06	Water

A Data Usability Summary Review was performed on the analytical data for five water samples and one aqueous trip blank sample collected on September 27, 2023 by Arcadis at the Jacks Dry Cleaners site in Brewerton, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness

- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D	Qualifier	Affected Samples
10/02/23 (2002)	Bromomethane	35.4%	UJ	All Samples
	Vinyl Chloride	25.5%	UJ	

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample	Compound	MS %R/MSD %R/ RPD	Qualifier
3	1,4-Dioxane	67.1%/OK/OK	UJ
	Methyl Acetate	67.1%/63.8%/OK	
	1,2,3-Trichlorobenzene	62.4%/67.6%/OK	
	1,2,4-Trichlorobenzene	59.1%/68.8%/OK	

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

- The LCS/LCSD exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- All criteria were met.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-17 ug/L	DUP-092723-01 ug/L	RPD	Qualifier
Acetone	4.8	ND	NC	None
Benzene	0.37	ND	NC	

Compound	MW-17BR ug/L	DUP-092723-02 ug/L	RPD	Qualifier
None	ND	ND	-	-

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/7/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1 - FORM I
ANALYSIS DATA SHEET

IW-19

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-01	File ID:	C22V27546.D
Sampled:	09/27/23 09:40	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 03:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene	1.5	0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	US
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.27	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 11/6/23

1 - FORM I
ANALYSIS DATA SHEET

IW-19

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-01	File ID:	C22V27546.D
Sampled:	09/27/23 09:40	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 03:07
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane	0.44	0.16	1.0	J
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.64	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V3
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/4/23

1 - FORM I
ANALYSIS DATA SHEET

IW-24

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-02	File ID:	C22V27547.D
Sampled:	09/27/23 09:20	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 03:34
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone	5.2	2.0	50	J
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

1 - FORM I
ANALYSIS DATA SHEET

IW-24

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-02	File ID:	C22V27547.D
Sampled:	09/27/23 09:20	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 03:34
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene	0.37	0.22	1.0	J
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

IW-29

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-03	File ID:	C22V27548.D
Sampled:	09/27/23 09:10	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:01
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	V-05
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene	0.68	0.14	1.0	J
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	UJ

MT 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

IW-29

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-03	File ID:	C22V27548.D
Sampled:	09/27/23 09:10	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:01
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	U MS-07A
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	U MS-07A, V-05
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	U MS-07A, V-05
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	U
1330-20-7	Xylenes (total)		1.0	1.0	

MT 10/6/23

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1 - FORM I
ANALYSIS DATA SHEET

DUP-092723-01

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-04	File ID:	C22V27549.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:27
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	VS
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MF 10/4/23

1 - FORM I
ANALYSIS DATA SHEET

DUP-092723-01

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-04	File ID:	C22V27549.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:27
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

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1 - FORM I
ANALYSIS DATA SHEET

DUP-092723-02

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-05	File ID:	C22V27550.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:54
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	UJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 10/4/23

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1 - FORM I
ANALYSIS DATA SHEET

DUP-092723-02

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Ground Water	Laboratory ID:	23I3738-05	File ID:	C22V27550.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/03/23 04:54
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
Instrument:	GCMSVOA3				

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	UJ
1330-20-7	Xylenes (total)		1.0	1.0	

MA 10/6/23

1 - FORM I
ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Trip Blank Water	Laboratory ID:	23I3738-06	File ID:	C22V27537.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/02/23 23:08
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537	Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
67-64-1	Acetone		2.0	50	
71-43-2	Benzene		0.18	1.0	
74-97-5	Bromochloromethane		0.28	1.0	
75-27-4	Bromodichloromethane		0.16	0.50	
75-25-2	Bromoform		0.41	1.0	
74-83-9	Bromomethane		1.3	2.0	VJ
78-93-3	2-Butanone (MEK)		1.7	20	
75-15-0	Carbon Disulfide		1.6	5.0	
56-23-5	Carbon Tetrachloride		0.16	5.0	
108-90-7	Chlorobenzene		0.12	1.0	
124-48-1	Chlorodibromomethane		0.20	0.50	
75-00-3	Chloroethane		0.34	2.0	
67-66-3	Chloroform		0.14	2.0	
74-87-3	Chloromethane		0.50	2.0	
110-82-7	Cyclohexane		1.8	5.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.85	5.0	~~V-05~~
106-93-4	1,2-Dibromoethane (EDB)		0.16	0.50	
95-50-1	1,2-Dichlorobenzene		0.13	1.0	
541-73-1	1,3-Dichlorobenzene		0.14	1.0	
106-46-7	1,4-Dichlorobenzene		0.13	1.0	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.16	2.0	
75-34-3	1,1-Dichloroethane		0.14	1.0	
107-06-2	1,2-Dichloroethane		0.30	1.0	
75-35-4	1,1-Dichloroethylene		0.14	1.0	
156-59-2	cis-1,2-Dichloroethylene		0.14	1.0	
156-60-5	trans-1,2-Dichloroethylene		0.17	1.0	
78-87-5	1,2-Dichloropropane		0.19	1.0	
10061-01-5	cis-1,3-Dichloropropene		0.16	0.50	
10061-02-6	trans-1,3-Dichloropropene		0.14	0.50	
123-91-1	1,4-Dioxane		18	50	

MT 10/4/23

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1 - FORM I
ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Pace New England			Work Order:	23I3738
Client:	NYDEC_Arcadis US, Inc. - Clifton F			Project:	Brewerton Jack's Cleaners - CO 145616
Matrix:	Trip Blank Water	Laboratory ID:	23I3738-06	File ID:	C22V27537.D
Sampled:	09/27/23 00:00	Prepared:	10/02/23 07:38	Analyzed:	10/02/23 23:08
Solids:		Preparation:	SW-846 5030B	Dilution:	1
Initial/Final:	5 mL / 5 mL				
Batch:	B353595	Sequence:	S094233	Calibration:	2200537
				Instrument:	GCMSVOA3

CAS NO.	COMPOUND	CONC. (µg/L)	MDL	RL	Q
100-41-4	Ethylbenzene		0.22	1.0	
591-78-6	2-Hexanone (MBK)		1.2	10	
98-82-8	Isopropylbenzene (Cumene)		0.15	1.0	
79-20-9	Methyl Acetate		0.61	1.0	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.17	1.0	
108-87-2	Methyl Cyclohexane		0.16	1.0	
75-09-2	Methylene Chloride		0.18	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)		1.3	10	
100-42-5	Styrene		0.15	1.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.14	0.50	
127-18-4	Tetrachloroethylene		0.17	1.0	
108-88-3	Toluene		0.22	1.0	
87-61-6	1,2,3-Trichlorobenzene		0.34	5.0	~~V-05~~
120-82-1	1,2,4-Trichlorobenzene		0.30	1.0	~~V-05~~
71-55-6	1,1,1-Trichloroethane		0.15	1.0	
79-00-5	1,1,2-Trichloroethane		0.19	1.0	
79-01-6	Trichloroethylene		0.17	1.0	
75-69-4	Trichlorofluoromethane (Freon 11)		0.15	2.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.21	1.0	
75-01-4	Vinyl Chloride		0.24	2.0	V5
1330-20-7	Xylenes (total)		1.0	1.0	

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