January 2, 2025

Mr. Stephen Catalfamo
NYSDEC Region 7
1679 NYS Route 11
Kirkwood, New York 13795

Re: Periodic Groundwater Monitoring Report
Former Ithaca Gun Factory - Offsite
121 – 125 Lake Street, Ithaca, Tompkins County, New York
NYSDEC Site No. C755019A

Dear Mr. Catalfamo:

LaBella Associates (Labella) has prepared the following report that summarizes the 2024 groundwater sampling event performed at the above referenced site between October 23, 2024 and October 25, 2024.

If you have any questions regarding the information contained herein, please contact Labella at (518) 885-5383.

Sincerely,

Thomas Giamichael, P.G.
Project Manager/Senior Environmental Geologist

Enclosure

Cc: File

Periodic Groundwater Monitoring Report

PREPARED FOR:
New York State Department of Environmental Conservation
Region 7
1679 NYS Route 11
Kirkwood, New York 13795
Attn: Stephen Catalfamo

SUBJECT SITE:
Former Ithaca Gun Factory - Offsite
121 – 125 Lake Street
Ithaca, Tompkins County, New York

NYSDEC Site No. C755019A

January 2, 2025

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REPORT DATE: **January 2, 2025**

REPORT NAME: **Periodic Groundwater Monitoring Report**

SUBJECT SITE: **Former Ithaca Gun Factory - Offsite**
121 – 125 Lake Street, Ithaca, Tompkins County, New York
NYSDEC Site No. C755019A

SITE PHASE: **Site Characterization - Groundwater Monitoring**

1.0 INTRODUCTION

LaBella Associates (Labella), on behalf of the New York State Department of Environmental Conservation (NYSDEC), has prepared this summary report to document the continued groundwater monitoring activities at the above referenced site. A groundwater sampling event was conducted in October 2024 to monitor the presence and nature of site-related volatile organic compounds (VOCs) in groundwater.

1.1 PROJECT BACKGROUND

The Ithaca Gun Company operated from approximately 1885 through 1986 at a property located to the east and uphill from the subject off-site area. The main operations included manufacturing of firearms and munitions. Supporting manufacturing activities and site uses included spray painting, oven drying of gun stocks, firing range, metal plating, machine shop, and forging. Based on the results of subsequent on-site and off-site investigations, historic operations at the Ithaca Gun Company appear to have impacted both on-site and near off-site areas.

From 1995 to 1998, following discovery of lead shot in the Fall Creek gorge area, soil sampling was conducted in both on-site and off-site areas. In 2000, leaking transformers and associated PCB-contaminated soils were removed from the site. From 2001 to 2004, the United States Environmental Protection Agency (USEPA) conducted a removal assessment, limited building demolition, and soil removal activities (mostly on adjacent off-site areas; however, some portions of the former Ithaca Gun Factory property were included). In 2001, an Environmental Site Assessment and a Site Investigation were completed on behalf of, and funded by, the property owner at the time. In 2002, the former Ithaca Gun Factory property entered the Voluntary Cleanup Program (VCP), with the site identification number of V00511. The original factory property has since been divided and is currently comprised of two separate remedial program sites; the Ithaca Falls Overlook, Environmental Restoration Program (ERP) site (Site No. E755018) which is owned by the City of Ithaca, and the Former Ithaca Gun Factory, Brownfield Cleanup Program (BCP) site (Site No. C755019) which is currently owned by 121-125 Lake Street, LLC. Based on data collected during investigations associated with the ERP site, additional off-site investigation was determined to be necessary. NYSDEC initiated an investigation of off-site

groundwater/soil vapor conditions in 2013 and USEPA conducted additional soil characterization and remediation (soil removal) in off-site areas (Fall Creek gorge area) between 2015 and 2021.

Laboratory analytical results of groundwater samples collected in 2012, as part of investigations for the ERP site, indicated presence of VOCs, specifically tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), and vinyl chloride, at monitoring wells hydraulically down-gradient from the BCP site with concentrations exceeding respective NYSDEC groundwater standards. The ERP investigations were limited to areas east of Lake Street. As a result, in July 2013, the NYSDEC contracted Aztech Technologies, now Labella, to conduct a subsurface investigation and characterization of an off-site area located topographically down-gradient from the former Ithaca Gun Factory site and in areas west of Lake Street (i.e., Fall Creek Neighborhood). Investigation details and results are documented in the Aztech report titled "Site Characterization Report for Former Ithaca Gun Factory – Offsite", dated February 2014.

The site characterization work included collection of groundwater and soil vapor samples from temporary points installed using direct-push technology, installation of permanent groundwater monitoring wells, a professional survey, and groundwater sampling from the monitoring wells. The site characterization results have allowed for a general delineation of the area with presence of VOCs.

The site characterization laboratory analytical data indicated that several VOCs were present in off-site groundwater; however, all compounds detected were below their respective NYSDEC groundwater standards. The only apparent site-related VOC detected in groundwater at that time was TCE with concentrations ranging from 0.82 to 4.8 micrograms per liter (µg/L); the groundwater standard for TCE is 5 µg/L. TCE was detected in five of the ten wells sampled. Soil vapor results indicated presence of more VOCs than those detected in groundwater; however, the primary contaminant of concern in soil vapor is TCE.

Additional groundwater sampling events conducted between November 2013 and November 2020 indicated similar conditions to those reported during the preliminary site characterization activities. Results for these groundwater sampling events are documented in individual summary reports.

NYSDEC is continuing to periodically monitor off-site groundwater conditions as the BCP Volunteer continues to perform remedial activities in on-site areas. Recent on-site remedial activities have included additional soil removal and groundwater injections activities.

2.0 DESCRIPTION OF FIELD WORK

October 23 through 25, 2024: Groundwater gauging and sampling for VOC analysis at ten (10) monitoring wells.

2.1 FIELD PROCEDURES

On October 23, 2024, Labella located and opened each of the ten (10) off-site monitoring wells. After allowing groundwater levels within each well to equilibrate with atmospheric conditions, depth to groundwater measurements were collected using an electronic water level meter graduated in 0.01 foot intervals. Depth to groundwater measurements were taken from the top of monitoring well casings (all monitoring wells are flush-mount).

Groundwater sampling activities were performed using low flow sampling techniques. A peristaltic pump was used to sample all wells, except for MW-6 and MW-7, which were sampled using a Waterra® hydrolift pump due to depth limitations of the peristaltic pump. New or dedicated high-density polyethylene (HDPE) tubing was used in each well and the tubing intake was set at the approximate center of the screened interval. Purge water was pumped through a flow-thru cell equipped with a multi-parameter water quality probe that measured water quality field parameters (WQFPs) including temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity. The WQFPs were recorded at approximately three (3) to five (5) minute intervals and purging continued until the WQFPs met stabilization criteria. Purge water was collected in a 5-gallon graduated container and managed in accordance with NYSDEC's Technical Guidance for Site Investigation and Remediation (DER-10), Chapter 3.3 (e)(5)(ii)(2)(A). The low flow sampling logs are provided in **Attachment A.**

Following stabilization of the WQFPs, groundwater samples were collected in appropriate bottleware (containing preservative as necessary) supplied by the analytical laboratory, placed in a cooler with wet ice, and transported under proper chain of custody protocol to the laboratory.

3.0 LABORATORY ANALYSES

The groundwater samples were submitted to an environmental laboratory that is accredited through the New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP). Each sample was analyzed for USEPA Target Compound List (TCL) VOCs, using USEPA Method 8260D. A copy of the October 2024 groundwater laboratory analytical report is provided in **Attachment B.**

3.1 ANALYTICAL LABORATORY

The groundwater samples were analyzed within the applicable holding times at the laboratory identified below:

Con-Test a Pace Analytical Laboratory (10899 NELAP)
39 Spruce Street, East Longmeadow, Massachusetts 01028
Laboratory Work Order Number 24J4070

3.2 DATA USABILITY SUMMARY REPORT (DUSR)

Vali-Data of WNY, LLC validation service of Fulton, New York validated the analytical data package submitted to Labella by Con-Test a Pace Analytical Laboratory. Analytical data packages are submitted as sample delivery groups (SDGs) based on the number of samples within each shipment received at the laboratory for analysis. The SDG#24J4070 associated with this groundwater sampling event was reviewed for completeness and compliance as defined by the requirements for NYSDEC Analytical Services Protocol Category B deliverables.

Data validation was completed for ten (10) groundwater samples and three (3) quality assurance/quality control samples. USEPA Method 8260D analyses data were determined to be usable for qualitative and quantitative purposes. Refer to the DUSR report for further details (**Attachment C**).

4.0 SUMMARY OF RESULTS

Below is a summary of the results of the October 2024 sampling event.

1) Groundwater elevation data, including previous data collected from the site, is presented in **Table 1**. Based on the elevation data from the October 2024 sampling event, a groundwater contour map was generated and is presented as **Figure 1**. The average depth to groundwater was 20.88 feet below top of casing and the inferred groundwater flow direction on this date generally trended to the west. The average hydraulic gradient across the site was 0.015 ft/ft.

2) The final WQFP measurements obtained from each sampled location are presented in **Table 2**.

3) The analytical results, including data from previous sampling events, are summarized in **Table 3**. In the October 2024 groundwater sampling event, four (4) VOCs were detected in groundwater samples collected from the off-site monitoring well network: TCE, cis-1,2-DCE, 1,1,1,-trichloroethane (1,1,1-TCA), and chloroform. These constituents were detected at low or trace concentrations and were below their associated NYS Groundwater Quality Standards (GQS) in all samples. The spatial distribution of these constituents in the off-site groundwater is shown in **Figure 2.**

    a) TCE, the primary site constituent of concern in groundwater, was detected in six (6) of the ten (10) off-site monitoring wells (AZMW-3, AZMW-4, AZMW-5, AZMW-6, AZMW-7 and MW-7). Concentrations of TCE ranged between 0.20 µg/L and 4.9 µg/L.

Consistent with previous sampling events, the highest concentration was observed at monitoring well MW-7, which is the monitoring well located nearest the Former Ithaca Gun Factory site. In the October 2024 sampling event, TCE concentrations in all monitoring wells located west (hydraulically downgradient) of MW-7 were non-detect or present at only trace levels (less than 1 µg/L). Furthermore, Mann-Kendall Trend analysis demonstrates non-increasing temporal trends (*decreasing*, *probably decreasing*, or *stable*) at all well locations, except for MW-7. The Mann-Kendall trend analysis workbook is included as **Attachment D**.

b) Cis-1,2-DCE, a degradation product of TCE, was detected at a low concentration (1.8 µg/L) at monitoring well location MW-7 and was non-detect at all other well locations. The detections of cis-1,2-DCE during the two most recent sampling events (November 2020 and October 2024) in samples collected from MW-7 is an indication that natural biodegradation processes are occurring in the shallow groundwater.

c) 1,1,1-TCA, a common industrial solvent, was detected at a trace concentration (0.21 µg/L) at one (1) isolated monitoring well location (AZMW-6). 1,1,1-TCA has not been detected in samples collected from off-site monitoring well locations in previous sampling events. However, it should be noted that the laboratory detection limit for 1,1,1-TCA was substantially lower in this sampling event than in most preceding sampling events.

d) Chloroform, which is not considered a site-related constituent of potential concern, was detected at trace concentrations in seven (7) of the ten (10) off-site monitoring wells (AZMW-1, AZMW-3, AZMW-4, AZMW-5, AZMW-6, AZMW-8 and MW-7). Concentrations of chloroform ranged between 0.59 µg/L (AZMW-4) and 2.0 µg/L (AZMW-5). It should also be noted that chloroform is a common disinfection byproduct and field/laboratory contaminant. Additionally, chloroform is commonly identified in shallow groundwater where municipally supplied chlorinated water is used.

5.0 CONCLUSIONS

Below are conclusions based on the results of the October 2024 sampling event.

1) The inferred groundwater flow direction in the off-site area of interest was determined to be generally to the west and was consistent with previous sampling events.

2) For the sixth consecutive sampling event (2013 – 2024), TCL VOCs were non-detect or were detected at concentrations below their associated NYS GQS at all off-site monitoring well locations.

3) Although TCE, the primary site constituent of concern, continues to be detected at low/trace concentrations in shallow groundwater in off-site areas located west of the Former Ithaca Gun Factory site, temporal trends indicate that TCE is attenuating, and the contaminant plume boundary is stable or shrinking.

NYSDEC intends to continue monitoring the off-site groundwater conditions as the on-site (BCP Site - Former Ithaca Gun Factory, Site No. C755019) remedial activities continue.

FIGURES

EAST FALLS STREET

EAST LINCOLN STREET

QUEEN STREET

NORTH TIOGA STREET

NORTH AURORA STREET

LINN STREET

LAKE STREET

FALL CREEK

PARK/NATURAL AREA

LOCATION OF FORMER ITHACA GUN FACTORY

383.00'

388.00'

393.00'

AZMW-8
383.13

AZMW-7
383.33

MW-6
393.50

AZMW-3
383.18

AZMW-4
383.19

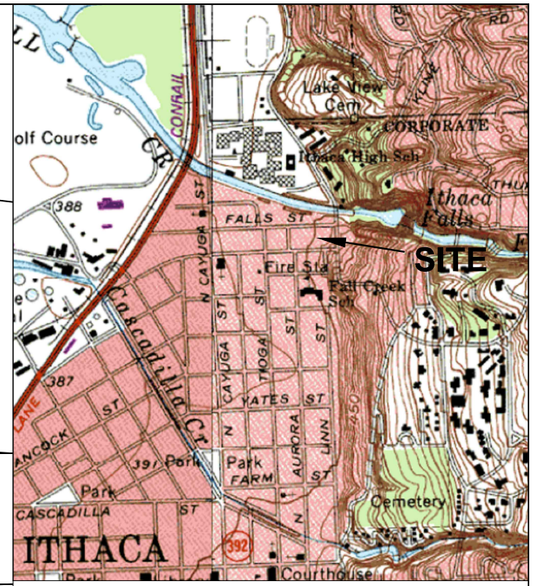
MW-7
394.45

AZMW-6
382.80

AZMW-5
382.87

AZMW-1
383.24

AZMW-2
382.62



LEGEND

- MW-7 — Monitoring Well
- Calculated Isopleth
- Inferred Isopleth
- 383.24 — Water Table Elevation (Feet Above Mean Sea Level)
- Inferred Direction of Groundwater Flow

Former Ithaca Gun Factory - Offsite

NYSDEC Site #C755019A
Ithaca, New York

Figure 1

DATE: October 23, 2024 | Scale 1" = 100'

GROUNDWATER CONTOUR MAP

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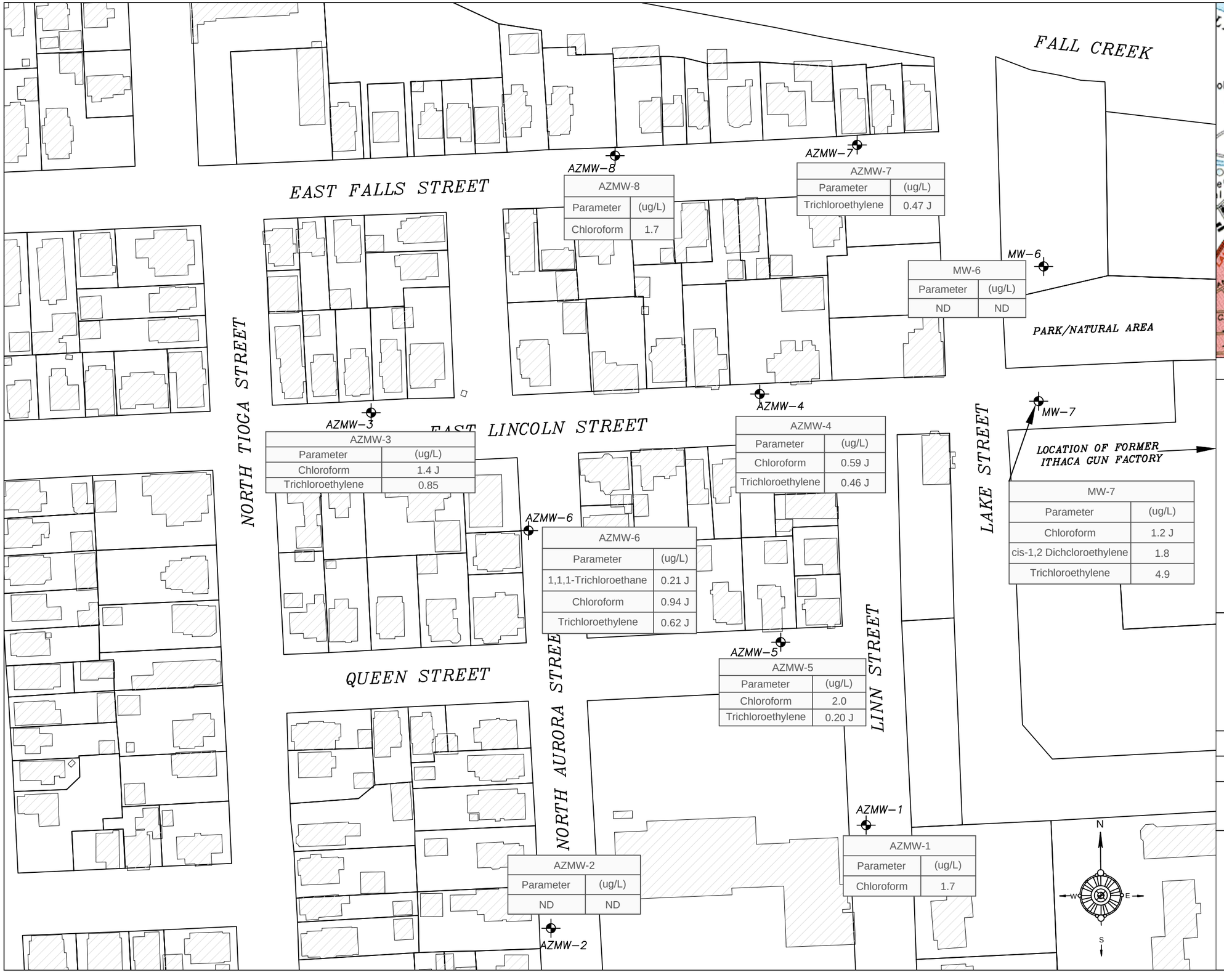

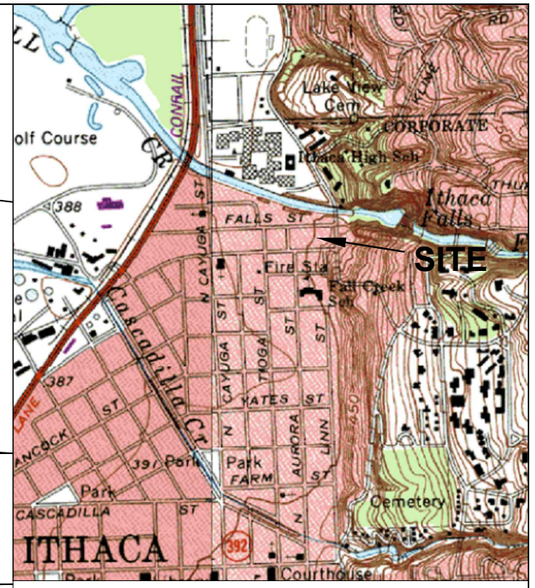

LEGEND

MW-7 Monitoring Well

ND - Not Detected Above Applicable Laboratory Detection Limits.

J - Laboratory Qualifier (Result is less than the reporting limit, but greater than the method detection limit and the concentration is an approximate value).

Former Ithaca Gun Factory - Offsite

NYSDEC Site #C755019A
Ithaca, New York

Figure 2

DATE: October 23-25, 2024 | Scale 1" = 100'

GROUNDWATER VOC DISTRIBUTION MAP

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TABLES

TABLE 1

GROUNDWATER ELEVATIONS

October 23, 2024

MONITORING WELL DESIGNATION		AZMW-1	AZMW-2	AZMW-3	AZMW-4	AZMW-5	AZMW-6	AZMW-7	AZMW-8	MW-6	MW-7
TOP OF CASING		408.29	394.38	395.28	402.32	406.06	396.63	403.95	398.08	423.69	432.38
Date		**GROUNDWATER ELEVATIONS**									
11/4/2013	DTW	25.15	11.81	12.18	19.21	23.30	13.91	20.58	15.01	30.69	37.91
	GW Elev	383.14	382.57	383.10	383.11	382.76	382.72	383.37	383.07	393.00	394.47
6/19/2014	DTW	24.27	11.00	11.39	18.35	22.43	13.07	19.42	14.13	28.86	37.87
	GW Elev	384.02	383.38	383.89	383.97	383.63	383.56	384.53	383.95	394.83	394.51
9/30/2015	DTW	24.89	11.50	11.78	18.80	22.87	13.50	20.00	14.56	28.79	37.81
	GW Elev	383.40	382.88	383.50	383.52	383.19	383.13	383.95	383.52	394.90	394.57
8/28/2018	DTW	24.78	11.56	11.93	18.93	22.98	13.63	20.38	14.76	30.53	38.06
	GW Elev	383.51	382.82	383.35	383.39	383.08	383.00	383.57	383.32	393.16	394.32
11/2/2020	DTW	24.82	11.63	11.97	18.99	23.04	13.68	20.43	14.82	28.97	38.09
	GW Elev	383.47	382.75	383.31	383.33	383.02	382.95	383.52	383.26	394.72	394.29
10/23/2024	DTW	25.05	11.76	12.10	19.13	23.19	13.83	20.62	14.95	30.19	37.93
	GW Elev	383.24	382.62	383.18	383.19	382.87	382.80	383.33	383.13	393.50	394.45

Notes:

GW Elev = Groundwater Elevation (ft.) - Feet Above Mean Sea Level

DTW = Depth to water (ft.)

TOC data from T. G. Miller survey conducted 10/24/2013

TABLE 2

GROUNDWATER QUALITY FIELD MEASUREMENTS

October 23 to 25, 2024

Well ID	Date Sampled	Groundwater Quality Parameter					
		Turbidity (NTU)	pH	Temperature (C°)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	ORP (mV)
AZMW-1	10/25/2024	11.96	6.74	12.4	8.65	3,837	87.7
AZMW-2	10/24/2024	14.3	6.57	16.0	0.87	1,550	-151.3
AZMW-3	10/23/2024	4.9	6.40	16.1	1.42	1,140	133.8
AZMW-4	10/23/2024	1.7	6.42	13.8	3.01	488.4	143.2
AZMW-5	10/24/2024	4.3	6.41	13.6	4.64	1,750	170.6
AZMW-6	10/23/2024	4.6	6.35	15.1	0.56	631	133.1
AZMW-7	10/23/2024	12.1	6.47	18.7	1.37	566	120.9
AZMW-8	10/23/2024	2.8	6.43	13.6	1.83	459	126.1
MW-6	10/24/2024	2.3	6.48	14.2	0.59	1,112	-261.5
MW-7	10/25/2024	25.2	6.56	11.2	6.30	1,295	89.4

Notes:

All values are reported as final measurement prior to sampling

NTU - Nephelometric Turbidity Unit

mg/L - Milligrams per Liter

µS/cm - MicroSiemens per centimeter

ORP - Oxygen Reduction Potential

mV - milliVolts

TABLE 3
LABORATORY GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds
October 23 to 25, 2024

Well ID	Date Sampled	Compound List - 8260 Full List																																										
		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Hexanone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Dibromochloromethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methyl acetate	MtBE	Methylcyclohexane	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylenes, Total	Total VOC's
SCGs (µg/L)		5	5	5	5	5	5	10	5	5	4.7	5	5	5	4.7	50	50	50	50	1.0	50	50	5	50	5	5	50	5	7	5	5	5	50	5	5	5	50	10	50	5	5	5	5	5	5	5	2	5	-
AZMW-1	11/6/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	0.76 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6
	10/25/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7
AZMW-2	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AZMW-3	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	2.6
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	1.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	4.5
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	4.5
	10/23/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.85	ND	ND	2.3
AZMW-4	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	2.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	2.2
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	2.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	1.6
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	2.1
	10/23/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46 J	ND	ND	2.1
AZMW-5	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0
	10/1/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8
	10/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J	ND	ND	2.2
AZMW-6	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	6.9
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	5.7
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND	ND	6.4
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	5.8
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	3.1
	10/23/2024	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	1.8
AZMW-7	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	0.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	1.9
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	2.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	0.8
	10/23/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND	0.5
AZMW-8	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**18**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9
	10/23/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7
MW-6	11/4/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/1/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/4/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	11/4/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	4.2
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	4.3
	9/30/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	0.8
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	ND	ND	4.4
	11/4/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	7.1
	10/25/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	ND	ND	7.9

Notes:
All values are reported in micrograms per liter (µg/L or ppb)
Standards, Criteria, and Guidance Values (SCGs) for groundwater – Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1), 6 NYCRR Part 703, Surface water and Groundwater Quality Standards, and Part 5 fo the New York State Sanitary Code (10 NYCRR Part 5).
BOLD values indicate exceedance of applicable NYSDEC guidance values
ND: Not Detected Above Applicable Laboratory Detection Limits
J - Laboratory Qualifier (Result is less than the reporting limit, but greater than the method detection limit and the concentration is an approximate value)
MtBE: methyl tertiary-Butyl Ether
BTEX: benzene, toluene, ethylbenzene, and xylenes

ATTACHMENT - A

Groundwater Quality Field Measurements – Field Logs

Site Name: Ithaca Gun

Site Location:

Sample By: T. Li...

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Riser

Riser Diameter: 1"

Depth to Water: 25.68

Depth to Bottom:

Well ID: A2M(1)-1

Date: 10/25/24

Weather: Clear 33°

Pumping Equipment: Peri

Decon Method:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (~~F~~C)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
7:14	<0.1	11.32	6.64	12.2	7.37	3783	99.7	25.32	
7:24	0.7	18.72	6.74	12.4	8.48	3851	91.0	25.33	
7:34	1.4	12.62	6.73	12.4	8.52	3864	91.4	25.33	
7:44	2.0	11.66	6.79	12.3	8.53	3869	80.8	25.33	
7:54	2.5	12.02	6.74	12.4	8.55	3875	88.9	25.33	
7:59	2.9	11.91	6.74	12.3	8.57	3877	87.6	25.33	
8:04	3.25	12.04	6.74	12.3	8.62	~~8~~3838	87.8	25.33	
8:09	3.6	11.96	6.74	12.4	8.65	3837	87.7	25.33	

Site Name: Ithaca Gun

Site Location:

Sample By: T. Gu

Well Information:

Flush Mount or Riser: flush

Measuring Point: Riser

Riser Diameter: 1.5"

Depth to Water: 11.75

Depth to Bottom:

*FD-1

Well ID: AZMW-2

Date: 10/24/24

Weather: overcast 55°

Pumping Equipment: Peri

Decon Method:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)(C)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
11:19	<0.1	15.19	6.56	15.6	2.04	1533	-133.4	11.78	
11:29	0.9	3.54	6.59	15.8	0.98	1546	-146.8	11.78	
11:39	1.9	4.30	6.58	15.8	0.95	1548	-147.6	11.78	
11:49	2.2	7.69	6.60	15.9	0.91	1550	-148.9	11.78	
11:59	3.0	12.37	6.58	15.9	0.87	1549	-150.2	11.78	
12:04	3.2	14.06	6.58	16.0	0.84	1550	-150.7	11.78	
12:09	3.6	15.01	6.58	16.0	0.86	1551	-151.1	11.78	
12:14	4.0	14.30	6.57	16.0	0.87	1550	-151.3	11.78	

Site Name: Ithaca Gun

Site Location:

Sample By: T. Gile

Well ID: AZMW-3

Date: 10/23/24

Weather: Sunny 75

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Rim

Riser Diameter: 1.5"

Depth to Water: 12.10

Depth to Bottom:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature C° (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
12:44	0.1	3.50	6.40	16.6	2.55	1011	142.8	12.12	
12:54	1.0	4.75	6.38	16.3	1.86	1097	148.1	12.12	
13:04	1.5	4.74	6.40	16.2	1.51	1133	148.8	12.12	
13:14	2.0	5.09	6.42	16.2	1.47	1135	97.6	12.12	
13:19	2.2	5.41	6.40	16.1	1.45	1138	124.6	12.12	
13:24	2.5	5.09	6.40	16.0	1.45	1139	129.8	12.12	
13:29	2.7	5.00	6.40	16.0	1.44	1139	130.1	12.12	
13:34	3.0	4.89	6.40	16.1	1.42	1140	133.8	12.12	

Site Name:	Ithaca Gun
Site Location:	
Sample By:	T. G.
Well ID:	AZMW-4
Date:	10/23/24
Weather:	Sunny 70°
Pumping Equipment:	Peri
Decon Method:	

Well Information:

Flush Mount or Riser:	Flush
Measuring Point:	Riser
Riser Diameter:	1.5"
Depth to Water:	19.13
Depth to Bottom:	

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F) C	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
14:32	0.1	5.32	6.55	13.9	2.50	494.4	167.4	19.15	
14:42	1.0	64.11	6.46	13.9	2.74	491.4	174.4	19.16	
14:52	1.8	5.15	6.44	13.9	2.91	490.4	172.4	19.16	
15:02	2.3	3.45	6.43	14.0	3.01	488.9	125.7	19.16	
15:07	2.6	2.34	6.43	13.8	2.98	489.2	135.8	19.16	
15:12	3.0	2.09	6.43	13.8	2.95	489.1	142.7	19.16	
15:17	3.3	1.65	6.42	13.8	3.01	488.9	143.2	19.16	

Site Name: Three Gun

Site Location:

Sample By: T. Gue

Well ID: AZMW-5

Date: 10/24/24

Weather: Cloudy 60°

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Rim

Riser Diameter: 1.5"

Depth to Water: 23.18

Depth to Bottom: —

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
9:36	<0.1	5.97	6.38	14.1	1.24	2223	185.1	23.35	
9:46	0.6	13.97	6.38	13.7	3.04	1886	190.4	23.43	
9:56	1.0	12.18	6.39	13.7	3.92	1772	193.6	23.45	
10:06	1.5	8.26	6.41	13.7	4.35	1738	124.8	23.45	
10:16	1.8	6.12	6.40	13.6	4.49	1737	157.8	23.45	
10:26	2.4	5.10	6.40	13.6	4.55	1742	171.3	23.45	
10:31	2.7	4.45	6.40	13.6	4.61	1747	175.1	23.45	
10:36	2.9	4.28	6.41	13.6	4.64	1750	170.6	23.45	

Site Name: Ithaca GW

Site Location:

Sample By: T. Cic

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Rise

Riser Diameter: 1.5"

Depth to Water: 13.82

Depth to Bottom:

Well ID: AZMW-6

Date: 10/23/24

Weather: Sunny 70°

Pumping Equipment: Peri

Decon Method:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (~~F~~C)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
15:40	0.05	1.56	6.52	16.0	2.23	635	150.8	13.84	
15:50	1.0	2.14	6.36	15.2	0.83	629	158.4	13.84	
16:00	1.8	2.36	6.36	15.2	0.64	627	157.5	13.84	
16:10	2.3	2.84	6.38	15.2	0.63	628	100.3	13.84	
16:15	2.5	3.61	6.35	15.1	0.59	630	127.1	13.84	
16:20	2.8	4.07	6.35	15.2	0.60	630	129.7	13.84	
16:25	3.3	4.62	6.35	15.1	0.56	631	133.1	13.84	

Site Name: Ithaca GW

Site Location:

Sample By: TG

Well ID: ARMW-7

Date: 10/23/24

Weather: Sunny 75°

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Casing

Riser Diameter: 1.5"

Depth to Water: 20.61

Depth to Bottom: —

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F) C	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
10:03	0.1	42.42	6.54	18.6	2.42	574 ~~741.8~~	165.5	20.83	
10:11	1.0	29.91	6.48	18.4	2.09	586	165.6	20.82	
10:21	2.0	8.17	6.48	18.6	1.53	586	151.3	20.82	
10:31	2.5	35.81	6.48	18.7	1.42	587	147.5	20.90	
10:41	3.0	10.42	6.48	18.5	1.37	575	118.7	20.90	
10:46	3.5	14.28	6.47	18.6	1.35	586	120.1	20.90	
10:51	4.0	12.10	6.47	18.7	1.37	586	120.7	20.90	X

Site Name: Tiffany Center

Site Location:

Sample By: TH

Well ID: AZMW-8

Date: 10/23/24

Weather:

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Riser

Riser Diameter: 1.5"

Depth to Water: 14.95

Depth to Bottom:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
11:40	0.1	64.31	6.68	15.1	4.52	532	162.5	15.10	
11:50	1.0	9.52	6.45	13.5	1.67	465.2	155.5	15.10	
12:01	1.5	3.65	6.47	13.7	1.69	462.6	90.4	15.09	
12:11	2.0	3.31	6.44	13.7	1.73	462.1	120.1	15.10	
12:16	2.5	2.96	6.44	13.6	1.77	461.0	123.1	15.10	
12:21	3.0	2.79	6.43	13.6	1.81	459.1	126.3	15.10	
12:26	3.3	2.81	6.43	13.6	1.83	459.0	126.1	15.10	X

Site Name: Hillcrest

Site Location:

Sample By: T. Li

Well ID: MW-6

Date: 10/24/24

Weather:

Pumping Equipment:

Decon Method:

Well Information:

Flush Mount or Riser: flush

Measuring Point: Rim

Riser Diameter: 2"

Depth to Water: 32.82

Depth to Bottom:

MS/MSD

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (C)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
13:33	<0.1	58.5	6.68	13.6	2.35	1100	-232.4	32.82	
13:43	0.4	20.18	6.62	15.0	1.85	1088	-232.8	32.79	
13:53	0.7	13.35	6.60	14.3	1.40	1085	-239.8	33.20	
14:03	1.4	6.81	6.58	14.4	1.12	1098	-245.6	33.68	
14:13	2.0	4.87	6.55	14.6	0.91	1106	-251.1	34.02	
14:23	2.5	4.62	6.52	14.6	0.74	1113	-256.2	34.15	
14:40	3.25	2.89	6.50	14.2	0.63	1113	-259.6		
14:45	3.5	2.54	6.49	14.1	0.60	1112	-260.7	35.21	
14:50	3.7	2.28	6.48	14.2	0.59	1112	-261.5	35.31	

Site Name: Ithaca Gun

Site Location:

Sample By: T. Cole

Well ID: MW-7

Date: 10/25/24

Weather: clear 35°

Pumping Equipment: Waterra

Decon Method:

Well Information:

Flush Mount or Riser: Flush

Measuring Point: Riser

Riser Diameter: 2"

Depth to Water: 38.41

Depth to Bottom:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F) (C)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
9:35	2.0.1	10.75	6.62	10.1	5.43	1296	94.7	40.51	
9:45	0.5	14.30	6.52	10.6	4.67	1278	85.2	40.70	
9:55	1.1	27.75	6.51	10.1	5.41	1213	81.4	42.30	
10:05	1.4	28.74	6.51	8.9	6.17	1212	84.1	41.18	
10:15	1.7	38.76	6.50	10.8	5.99	1221	85.6	42.76	
10:25	2.1	38.31	6.26	10.7	6.26	1238	84.7	43.75	
10:35	2.5	35.01	6.53	10.7	6.46	1252	88.1	44.40	
10:45	2.8	33.07	6.61	10.5	6.61	1260	90.8	44.79	
10:55	3.1	31.37	6.53	10.9	6.48	1276	91.4	45.45	
11:00	3.25	29.48	6.54	11.1	6.27	1290	92.0	48.21	
11:05	3.5	25.23	6.51	11.2	6.30	1295	89.4	46.34	

ATTACHMENT - B

Laboratory Analytical Report (Groundwater Sampling)

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

November 4, 2024

Steve Catafalmo
NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020

Project Location: 121-125 Lake St, Ithaca, NY
Client Job Number:
Project Number: C755019A
Laboratory Work Order Number: 24J4070

Enclosed are results of analyses for samples as received by the laboratory on October 30, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle A. Murray
Project Manager

Table of Contents

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

NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020
ATTN: Steve Catafalmo

REPORT DATE: 11/4/2024

PURCHASE ORDER NUMBER: 151968

PROJECT NUMBER: C755019A

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J4070

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

PROJECT LOCATION: 121-125 Lake St, Ithaca, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
AZMW-7	24J4070-01	Ground Water		SW-846 8260D	
AZMW-8	24J4070-02	Ground Water		SW-846 8260D	
AZMW-3	24J4070-03	Ground Water		SW-846 8260D	
AZMW-4	24J4070-04	Ground Water		SW-846 8260D	
AZMW-6	24J4070-05	Ground Water		SW-846 8260D	
AZMW-5	24J4070-06	Ground Water		SW-846 8260D	
AZMW-2	24J4070-07	Ground Water		SW-846 8260D	
MW-6	24J4070-08	Ground Water		SW-846 8260D	
AZMW-1	24J4070-09	Ground Water		SW-846 8260D	
MW-7	24J4070-10	Ground Water		SW-846 8260D	
FD-1	24J4070-11	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.

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
B391082-BS1, B391082-BSD1, B391082-MS1, B391082-MSD1, S113269-CCV1

MS-09

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

Analyte & Samples(s) Qualified:

Naphthalene
24J4070-08[MW-6], B391082-MS1, B391082-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:

1,2,4-Trichlorobenzene
B391082-MS1

Chloroethane
B391082-MS1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Bromomethane
24J4070-08[MW-6], B391082-MS1, B391082-MSD1

Naphthalene
24J4070-08[MW-6], B391082-MS1, B391082-MSD1

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:

Naphthalene
24J4070-01[AZMW-7], 24J4070-02[AZMW-8], 24J4070-03[AZMW-3], 24J4070-04[AZMW-4], 24J4070-05[AZMW-6], 24J4070-06[AZMW-5], 24J4070-07[AZMW-2], 24J4070-08[MW-6], 24J4070-09[AZMW-1], 24J4070-10[MW-7], 24J4070-11[FD-1], B391082-BLK1, B391082-BS1, B391082-BSD1, B391082-MS1, B391082-MSD1, S113269-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.

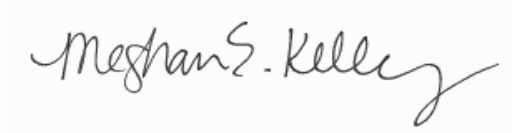
Analyte & Samples(s) Qualified:

Bromomethane
B391082-BS1, B391082-BSD1, B391082-MS1, B391082-MSD1, S113269-CCV1

Methyl Acetate
B391082-BS1, B391082-BSD1, B391082-MS1, B391082-MSD1, S113269-CCV1

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

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



Meghan E. Kelley
Reporting Specialist

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-7 Sampled: 10/23/2024 10:51

Sample ID: 24J4070-01

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	10/31/24	11/2/24 0:33	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 0:33	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-7 Sampled: 10/23/2024 10:51

Sample ID: 24J4070-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Trichloroethylene	0.47	1.0	0.17	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 0:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.1	70-130		11/2/24 0:33
Toluene-d8	95.6	70-130		11/2/24 0:33
4-Bromofluorobenzene	86.2	70-130		11/2/24 0:33

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-8 Sampled: 10/23/2024 12:26

Sample ID: 24J4070-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Chloroform	1.7	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 1:00	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-8 Sampled: 10/23/2024 12:26

Sample ID: 24J4070-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	96.5	70-130		11/2/24 1:00	
Toluene-d8	93.2	70-130		11/2/24 1:00	
4-Bromofluorobenzene	86.2	70-130		11/2/24 1:00	

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-3 Sampled: 10/23/2024 13:34

Sample ID: 24J4070-03

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	10/31/24	11/2/24 1:27	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Chloroform	1.4	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 1:27	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-3 Sampled: 10/23/2024 13:34

Sample ID: 24J4070-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Trichloroethylene	0.85	1.0	0.17	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.8	70-130		11/2/24 1:27
Toluene-d8	96.5	70-130		11/2/24 1:27
4-Bromofluorobenzene	83.5	70-130		11/2/24 1:27

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-4 Sampled: 10/23/2024 15:17

Sample ID: 24J4070-04

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	10/31/24	11/2/24 1:53	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Chloroform	0.59	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 1:53	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-4 Sampled: 10/23/2024 15:17

Sample ID: 24J4070-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Trichloroethylene	0.46	1.0	0.17	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 1:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/2/24 1:53
Toluene-d8	95.8	70-130		11/2/24 1:53
4-Bromofluorobenzene	83.4	70-130		11/2/24 1:53

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-6 Sampled: 10/23/2024 16:25

Sample ID: 24J4070-05

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	10/31/24	11/2/24 2:20	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Chloroform	0.94	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 2:20	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY | Sample Description: | Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-6 | Sampled: 10/23/2024 16:25

Sample ID: 24J4070-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,1,1-Trichloroethane	0.21	1.0	0.14	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Trichloroethylene	0.62	1.0	0.17	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		11/2/24 2:20
Toluene-d8	96.7	70-130		11/2/24 2:20
4-Bromofluorobenzene	85.0	70-130		11/2/24 2:20

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-5 Sampled: 10/24/2024 10:36

Sample ID: 24J4070-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Chloroform	2.0	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 2:47	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-5 Sampled: 10/24/2024 10:36

Sample ID: 24J4070-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Trichloroethylene	0.20	1.0	0.17	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 2:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/2/24 2:47
Toluene-d8	95.2	70-130		11/2/24 2:47
4-Bromofluorobenzene	86.4	70-130		11/2/24 2:47

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-2 Sampled: 10/24/2024 12:14

Sample ID: 24J4070-07

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	ND	50	2.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 3:14	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-2 Sampled: 10/24/2024 12:14

Sample ID: 24J4070-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.4	70-130		11/2/24 3:14
Toluene-d8	91.0	70-130		11/2/24 3:14
4-Bromofluorobenzene	86.0	70-130		11/2/24 3:14

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: MW-6 Sampled: 10/24/2024 14:50

Sample ID: 24J4070-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Bromomethane	ND	2.0	1.5	µg/L	1	R-06	SW-846 8260D	10/31/24	11/2/24 3:40	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	MS-09, R-06, V-05	SW-846 8260D	10/31/24	11/2/24 3:40	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: MW-6 Sampled: 10/24/2024 14:50

Sample ID: 24J4070-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 3:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		11/2/24 3:40
Toluene-d8	93.0	70-130		11/2/24 3:40
4-Bromofluorobenzene	86.4	70-130		11/2/24 3:40

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-1 Sampled: 10/25/2024 08:09

Sample ID: 24J4070-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Chloroform	1.7	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 4:07	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: AZMW-1 Sampled: 10/25/2024 08:09

Sample ID: 24J4070-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/2/24 4:07
Toluene-d8	97.9	70-130		11/2/24 4:07
4-Bromofluorobenzene	84.0	70-130		11/2/24 4:07

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: MW-7 Sampled: 10/25/2024 11:05

Sample ID: 24J4070-10

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	10/31/24	11/2/24 4:34	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Chloroform	1.2	2.0	0.19	µg/L	1	J	SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
cis-1,2-Dichloroethylene	1.8	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 4:34	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF

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Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: MW-7 Sampled: 10/25/2024 11:05

Sample ID: 24J4070-10

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
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Trichloroethylene	4.9	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 4:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.9	70-130		11/2/24 4:34
Toluene-d8	95.4	70-130		11/2/24 4:34
4-Bromofluorobenzene	85.8	70-130		11/2/24 4:34

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: FD-1 Sampled: 10/25/2024 00:00

Sample ID: 24J4070-11

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	10/31/24	11/2/24 5:01	MFF
Benzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Bromochloromethane	ND	1.0	0.32	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Bromoform	ND	1.0	0.30	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
2-Butanone (MEK)	ND	20	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
n-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
sec-Butylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
tert-Butylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Carbon Disulfide	ND	5.0	1.5	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Carbon Tetrachloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Chlorobenzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Chloroethane	ND	2.0	0.46	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Chloroform	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.63	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,3-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,4-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,1-Dichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2-Dichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,1-Dichloroethylene	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2-Dichloropropane	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Ethylbenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
2-Hexanone (MBK)	ND	10	1.3	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Methyl Acetate	ND	1.0	0.48	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Methyl Cyclohexane	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Methylene Chloride	ND	5.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.4	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Naphthalene	ND	2.0	0.25	µg/L	1	V-05	SW-846 8260D	10/31/24	11/2/24 5:01	MFF
n-Propylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Styrene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF

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

Project Location: 121-125 Lake St, Ithaca, NY Sample Description: Work Order: 24J4070

Date Received: 10/30/2024

Field Sample #: FD-1 Sampled: 10/25/2024 00:00

Sample ID: 24J4070-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Toluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.22	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,1,1-Trichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.14	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2,3-Trichloropropane	ND	2.0	0.27	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Vinyl Chloride	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
o-Xylene	ND	1.0	0.16	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	10/31/24	11/2/24 5:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		11/2/24 5:01
Toluene-d8	95.4	70-130		11/2/24 5:01
4-Bromofluorobenzene	82.6	70-130		11/2/24 5:01

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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
24J4070-01 [AZMW-7]	B391082	5	5.00	10/31/24
24J4070-02 [AZMW-8]	B391082	5	5.00	10/31/24
24J4070-03 [AZMW-3]	B391082	5	5.00	10/31/24
24J4070-04 [AZMW-4]	B391082	5	5.00	10/31/24
24J4070-05 [AZMW-6]	B391082	5	5.00	10/31/24
24J4070-06 [AZMW-5]	B391082	5	5.00	10/31/24
24J4070-07 [AZMW-2]	B391082	5	5.00	10/31/24
24J4070-08 [MW-6]	B391082	5	5.00	10/31/24
24J4070-09 [AZMW-1]	B391082	5	5.00	10/31/24
24J4070-10 [MW-7]	B391082	5	5.00	10/31/24
24J4070-11 [FD-1]	B391082	5	5.00	10/31/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391082 - SW-846 5030B										
Blank (B391082-BLK1)				Prepared: 10/31/24 Analyzed: 11/02/24						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391082 - SW-846 5030B											
Blank (B391082-BLK1)				Prepared: 10/31/24 Analyzed: 11/02/24							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.00		98.6	70-130				
Surrogate: Toluene-d8	*23.8*		µg/L	25.00		95.4	70-130				
Surrogate: 4-Bromofluorobenzene	*22.6*		µg/L	25.00		90.4	70-130				
LCS (B391082-BS1)				Prepared: 10/31/24 Analyzed: 11/01/24							
Acetone	100	50	µg/L	100.0		100	70-160				†
Benzene	10.0	1.0	µg/L	10.00		100	70-130				
Bromochloromethane	11.0	1.0	µg/L	10.00		110	70-130				
Bromodichloromethane	10.4	0.50	µg/L	10.00		104	70-130				
Bromoform	8.14	1.0	µg/L	10.00		81.4	70-130				
Bromomethane	11.7	2.0	µg/L	10.00		117	40-160			V-20	†
2-Butanone (MEK)	102	20	µg/L	100.0		102	40-160				†
n-Butylbenzene	8.62	1.0	µg/L	10.00		86.2	70-130				
sec-Butylbenzene	9.27	1.0	µg/L	10.00		92.7	70-130				
tert-Butylbenzene	9.15	1.0	µg/L	10.00		91.5	70-130				
Carbon Disulfide	92.5	5.0	µg/L	100.0		92.5	70-130				
Carbon Tetrachloride	9.16	5.0	µg/L	10.00		91.6	70-130				
Chlorobenzene	10.5	1.0	µg/L	10.00		105	70-130				
Chlorodibromomethane	9.66	0.50	µg/L	10.00		96.6	70-130				
Chloroethane	9.65	2.0	µg/L	10.00		96.5	70-130				
Chloroform	10.0	2.0	µg/L	10.00		100	70-130				
Chloromethane	10.6	2.0	µg/L	10.00		106	40-160				†
Cyclohexane	8.97	5.0	µg/L	10.00		89.7	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.16	5.0	µg/L	10.00		81.6	70-130				
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.00		101	70-130				
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130				
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130				
1,4-Dichlorobenzene	9.73	1.0	µg/L	10.00		97.3	70-130				
Dichlorodifluoromethane (Freon 12)	8.20	2.0	µg/L	10.00		82.0	40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.00		102	70-130				
1,2-Dichloroethane	10.7	1.0	µg/L	10.00		107	70-130				
1,1-Dichloroethylene	9.57	1.0	µg/L	10.00		95.7	70-130				
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
trans-1,2-Dichloroethylene	9.76	1.0	µg/L	10.00		97.6	70-130				
1,2-Dichloropropane	10.0	1.0	µg/L	10.00		100	70-130				
cis-1,3-Dichloropropene	9.27	0.50	µg/L	10.00		92.7	70-130				
trans-1,3-Dichloropropene	9.13	0.50	µg/L	10.00		91.3	70-130				
Ethylbenzene	9.92	1.0	µg/L	10.00		99.2	70-130				
2-Hexanone (MBK)	90.5	10	µg/L	100.0		90.5	70-160				†
Isopropylbenzene (Cumene)	9.53	1.0	µg/L	10.00		95.3	70-130				
p-Isopropyltoluene (p-Cymene)	9.35	1.0	µg/L	10.00		93.5	70-130				
Methyl Acetate	14.0	1.0	µg/L	10.00		**140**	70-130	*		L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	9.73	1.0	µg/L	10.00		97.3	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391082 - SW-846 5030B											
LCS (B391082-BS1)				Prepared: 10/31/24 Analyzed: 11/01/24							
Methyl Cyclohexane	9.46	1.0	µg/L	10.00		94.6	70-130				
Methylene Chloride	10.4	5.0	µg/L	10.00		104	70-130				
4-Methyl-2-pentanone (MIBK)	94.5	10	µg/L	100.0		94.5	70-160				†
Naphthalene	6.33	2.0	µg/L	10.00		63.3	40-130			V-05	†
n-Propylbenzene	9.60	1.0	µg/L	10.00		96.0	70-130				
Styrene	9.37	1.0	µg/L	10.00		93.7	70-130				
1,1,2,2-Tetrachloroethane	9.57	0.50	µg/L	10.00		95.7	70-130				
Tetrachloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
Toluene	10.3	1.0	µg/L	10.00		103	70-130				
1,2,3-Trichlorobenzene	9.26	5.0	µg/L	10.00		92.6	70-130				
1,2,4-Trichlorobenzene	8.16	1.0	µg/L	10.00		81.6	70-130				
1,1,1-Trichloroethane	9.49	1.0	µg/L	10.00		94.9	70-130				
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.00		102	70-130				
Trichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
Trichlorofluoromethane (Freon 11)	10.0	2.0	µg/L	10.00		100	70-130				
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.00		108	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.31	1.0	µg/L	10.00		93.1	70-130				
1,2,4-Trimethylbenzene	9.42	1.0	µg/L	10.00		94.2	70-130				
1,3,5-Trimethylbenzene	9.69	1.0	µg/L	10.00		96.9	70-130				
Vinyl Chloride	9.44	2.0	µg/L	10.00		94.4	40-160				†
m+p Xylene	19.5	2.0	µg/L	20.00		97.4	70-130				
o-Xylene	9.66	1.0	µg/L	10.00		96.6	70-130				
Xylenes (total)	29.1	1.0	µg/L	30.00		97.1	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.00		101	70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.00		102	70-130				
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.00		95.1	70-130				
LCS Dup (B391082-BSD1)				Prepared: 10/31/24 Analyzed: 11/01/24							
Acetone	101	50	µg/L	100.0		101	70-160	0.289	25		†
Benzene	10.2	1.0	µg/L	10.00		102	70-130	1.19	25		
Bromochloromethane	11.2	1.0	µg/L	10.00		112	70-130	1.26	25		
Bromodichloromethane	10.2	0.50	µg/L	10.00		102	70-130	1.46	25		
Bromoform	8.52	1.0	µg/L	10.00		85.2	70-130	4.56	25		
Bromomethane	12.1	2.0	µg/L	10.00		121	40-160	3.19	25	V-20	†
2-Butanone (MEK)	101	20	µg/L	100.0		101	40-160	1.34	25		†
n-Butylbenzene	8.81	1.0	µg/L	10.00		88.1	70-130	2.18	25		
sec-Butylbenzene	9.25	1.0	µg/L	10.00		92.5	70-130	0.216	25		
tert-Butylbenzene	9.14	1.0	µg/L	10.00		91.4	70-130	0.109	25		
Carbon Disulfide	96.2	5.0	µg/L	100.0		96.2	70-130	3.89	25		
Carbon Tetrachloride	9.45	5.0	µg/L	10.00		94.5	70-130	3.12	25		
Chlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	5.74	25		
Chlorodibromomethane	9.86	0.50	µg/L	10.00		98.6	70-130	2.05	25		
Chloroethane	10.2	2.0	µg/L	10.00		102	70-130	5.64	25		
Chloroform	9.96	2.0	µg/L	10.00		99.6	70-130	0.501	25		
Chloromethane	10.8	2.0	µg/L	10.00		108	40-160	1.22	25		†
Cyclohexane	9.47	5.0	µg/L	10.00		94.7	70-130	5.42	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.63	5.0	µg/L	10.00		86.3	70-130	5.60	25		
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.00		100	70-130	0.894	25		
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.00		102	70-130	1.07	25		
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.00		102	70-130	0.681	25		
1,4-Dichlorobenzene	9.16	1.0	µg/L	10.00		91.6	70-130	6.03	25		
Dichlorodifluoromethane (Freon 12)	8.62	2.0	µg/L	10.00		86.2	40-160	4.99	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 B391082 - SW-846 5030B												
LCS Dup (B391082-BSD1)				Prepared: 10/31/24 Analyzed: 11/01/24								
1,1-Dichloroethane	10.6	1.0	µg/L	10.00		106		70-130	4.13	25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.00		110		70-130	3.05	25		
1,1-Dichloroethylene	10.1	1.0	µg/L	10.00		101		70-130	5.49	25		
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107		70-130	1.60	25		
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00		101		70-130	3.32	25		
1,2-Dichloropropane	9.97	1.0	µg/L	10.00		99.7		70-130	0.300	25		
cis-1,3-Dichloropropene	9.67	0.50	µg/L	10.00		96.7		70-130	4.22	25		
trans-1,3-Dichloropropene	8.98	0.50	µg/L	10.00		89.8		70-130	1.66	25		
Ethylbenzene	10.2	1.0	µg/L	10.00		102		70-130	2.78	25		
2-Hexanone (MBK)	95.5	10	µg/L	100.0		95.5		70-160	5.39	25		†
Isopropylbenzene (Cumene)	9.76	1.0	µg/L	10.00		97.6		70-130	2.38	25		
p-Isopropyltoluene (p-Cymene)	9.59	1.0	µg/L	10.00		95.9		70-130	2.53	25		
Methyl Acetate	13.9	1.0	µg/L	10.00		**139**	*	70-130	0.358	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	9.82	1.0	µg/L	10.00		98.2		70-130	0.921	25		
Methyl Cyclohexane	9.83	1.0	µg/L	10.00		98.3		70-130	3.84	25		
Methylene Chloride	10.4	5.0	µg/L	10.00		104		70-130	0.192	25		
4-Methyl-2-pentanone (MIBK)	96.8	10	µg/L	100.0		96.8		70-160	2.39	25		†
Naphthalene	6.46	2.0	µg/L	10.00		64.6		40-130	2.03	25	V-05	†
n-Propylbenzene	9.91	1.0	µg/L	10.00		99.1		70-130	3.18	25		
Styrene	9.79	1.0	µg/L	10.00		97.9		70-130	4.38	25		
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.00		100		70-130	4.49	25		
Tetrachloroethylene	10.8	1.0	µg/L	10.00		108		70-130	3.28	25		
Toluene	10.5	1.0	µg/L	10.00		105		70-130	1.92	25		
1,2,3-Trichlorobenzene	9.29	5.0	µg/L	10.00		92.9		70-130	0.323	25		
1,2,4-Trichlorobenzene	8.29	1.0	µg/L	10.00		82.9		70-130	1.58	25		
1,1,1-Trichloroethane	9.79	1.0	µg/L	10.00		97.9		70-130	3.11	25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.00		103		70-130	1.08	25		
Trichloroethylene	10.3	1.0	µg/L	10.00		103		70-130	0.586	25		
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.00		105		70-130	4.58	25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109		70-130	0.828	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.75	1.0	µg/L	10.00		97.5		70-130	4.62	25		
1,2,4-Trimethylbenzene	9.70	1.0	µg/L	10.00		97.0		70-130	2.93	25		
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00		101		70-130	4.54	25		
Vinyl Chloride	9.85	2.0	µg/L	10.00		98.5		40-160	4.25	25		†
m+p Xylene	20.3	2.0	µg/L	20.00		101		70-130	3.93	25		
o-Xylene	9.99	1.0	µg/L	10.00		99.9		70-130	3.36	25		
Xylenes (total)	30.2	1.0	µg/L	30.00		101		0-200	3.74			
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.00		103		70-130				
Surrogate: Toluene-d8	*25.8*		µg/L	25.00		103		70-130				
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.00		95.8		70-130				
Matrix Spike (B391082-MS1)	**Source: 24J4070-08**			Prepared: 10/31/24 Analyzed: 11/02/24								
Acetone	104	50	µg/L	100.0	ND	104		70-130				
Benzene	10.8	1.0	µg/L	10.00	ND	108		70-130				
Bromochloromethane	12.2	1.0	µg/L	10.00	ND	122		70-130				
Bromodichloromethane	10.5	0.50	µg/L	10.00	ND	105		70-130				
Bromoform	8.36	1.0	µg/L	10.00	ND	83.6		70-130				
Bromomethane	11.5	2.0	µg/L	10.00	ND	115		70-130			R-06, V-20	
2-Butanone (MEK)	111	20	µg/L	100.0	ND	111		70-130				
n-Butylbenzene	7.89	1.0	µg/L	10.00	ND	78.9		70-130				
sec-Butylbenzene	9.23	1.0	µg/L	10.00	ND	92.3		70-130				
tert-Butylbenzene	9.26	1.0	µg/L	10.00	ND	92.6		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 B391082 - SW-846 5030B											
Matrix Spike (B391082-MS1)	**Source: 24J4070-08**			Prepared: 10/31/24 Analyzed: 11/02/24							
Carbon Disulfide	105	5.0	µg/L	100.0	ND	105		70-130			
Carbon Tetrachloride	10.6	5.0	µg/L	10.00	ND	106		70-130			
Chlorobenzene	11.0	1.0	µg/L	10.00	ND	110		70-130			
Chlorodibromomethane	9.71	0.50	µg/L	10.00	ND	97.1		70-130			
Chloroethane	13.5	2.0	µg/L	10.00	ND	**135**	*	70-130			MS-24
Chloroform	10.8	2.0	µg/L	10.00	ND	108		70-130			
Chloromethane	9.27	2.0	µg/L	10.00	ND	92.7		70-130			
Cyclohexane	9.96	5.0	µg/L	10.00	ND	99.6		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.31	5.0	µg/L	10.00	ND	73.1		70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.00	ND	101		70-130			
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.00	ND	100		70-130			
1,3-Dichlorobenzene	9.84	1.0	µg/L	10.00	ND	98.4		70-130			
1,4-Dichlorobenzene	9.60	1.0	µg/L	10.00	ND	96.0		70-130			
Dichlorodifluoromethane (Freon 12)	9.10	2.0	µg/L	10.00	ND	91.0		70-130			
1,1-Dichloroethane	11.5	1.0	µg/L	10.00	ND	115		70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.00	ND	109		70-130			
1,1-Dichloroethylene	11.5	1.0	µg/L	10.00	ND	115		70-130			
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.00	ND	112		70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.00	ND	112		70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.00	ND	102		70-130			
cis-1,3-Dichloropropene	8.75	0.50	µg/L	10.00	ND	87.5		70-130			
trans-1,3-Dichloropropene	7.97	0.50	µg/L	10.00	ND	79.7		70-130			
Ethylbenzene	10.2	1.0	µg/L	10.00	ND	102		70-130			
2-Hexanone (MBK)	92.4	10	µg/L	100.0	ND	92.4		70-130			
Isopropylbenzene (Cumene)	9.70	1.0	µg/L	10.00	ND	97.0		70-130			
p-Isopropyltoluene (p-Cymene)	8.89	1.0	µg/L	10.00	ND	88.9		70-130			
Methyl Acetate	9.76	1.0	µg/L	10.00	ND	97.6		70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	9.87	1.0	µg/L	10.00	ND	98.7		70-130			
Methyl Cyclohexane	9.55	1.0	µg/L	10.00	ND	95.5		70-130			
Methylene Chloride	11.2	5.0	µg/L	10.00	ND	112		70-130			
4-Methyl-2-pentanone (MIBK)	95.5	10	µg/L	100.0	ND	95.5		70-130			
Naphthalene	3.58	2.0	µg/L	10.00	ND	**35.8**	*	70-130			MS-09, R-06, V-05
n-Propylbenzene	9.84	1.0	µg/L	10.00	ND	98.4		70-130			
Styrene	9.32	1.0	µg/L	10.00	ND	93.2		70-130			
1,1,2,2-Tetrachloroethane	9.99	0.50	µg/L	10.00	ND	99.9		70-130			
Tetrachloroethylene	11.9	1.0	µg/L	10.00	ND	119		70-130			
Toluene	11.2	1.0	µg/L	10.00	ND	112		70-130			
1,2,3-Trichlorobenzene	7.53	5.0	µg/L	10.00	ND	75.3		70-130			
1,2,4-Trichlorobenzene	6.59	1.0	µg/L	10.00	ND	**65.9**	*	70-130			MS-24
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.00	ND	108		70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.00	ND	107		70-130			
Trichloroethylene	10.6	1.0	µg/L	10.00	ND	106		70-130			
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.00	ND	120		70-130			
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.00	ND	106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00	ND	108		70-130			
1,2,4-Trimethylbenzene	9.27	1.0	µg/L	10.00	ND	92.7		70-130			
1,3,5-Trimethylbenzene	9.86	1.0	µg/L	10.00	ND	98.6		70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.00	ND	103		70-130			
m+p Xylene	20.6	2.0	µg/L	20.00	ND	103		70-130			
o-Xylene	9.85	1.0	µg/L	10.00	ND	98.5		70-130			
Xylenes (total)	30.4	1.0	µg/L	30.00	ND	101		0-200			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B391082 - SW-846 5030B												
Matrix Spike (B391082-MS1)	**Source: 24J4070-08**			Prepared: 10/31/24 Analyzed: 11/02/24								
Surrogate: 1,2-Dichloroethane-d4	*26.4*		µg/L	25.00		106		70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.00		103		70-130				
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.00		95.4		70-130				
Matrix Spike Dup (B391082-MSD1)	**Source: 24J4070-08**			Prepared: 10/31/24 Analyzed: 11/02/24								
Acetone	106	50	µg/L	100.0	ND	106		70-130	1.86		30	
Benzene	10.6	1.0	µg/L	10.00	ND	106		70-130	1.88		30	
Bromochloromethane	11.5	1.0	µg/L	10.00	ND	115		70-130	5.48		30	
Bromodichloromethane	10.8	0.50	µg/L	10.00	ND	108		70-130	2.81		30	
Bromoform	8.09	1.0	µg/L	10.00	ND	80.9		70-130	3.28		30	
Bromomethane	8.18	2.0	µg/L	10.00	ND	81.8		70-130	**34.1**	*	30	R-06, V-20
2-Butanone (MEK)	112	20	µg/L	100.0	ND	112		70-130	1.53		30	
n-Butylbenzene	7.99	1.0	µg/L	10.00	ND	79.9		70-130	1.26		30	
sec-Butylbenzene	8.95	1.0	µg/L	10.00	ND	89.5		70-130	3.08		30	
tert-Butylbenzene	8.82	1.0	µg/L	10.00	ND	88.2		70-130	4.87		30	
Carbon Disulfide	103	5.0	µg/L	100.0	ND	103		70-130	1.73		30	
Carbon Tetrachloride	10.4	5.0	µg/L	10.00	ND	104		70-130	2.67		30	
Chlorobenzene	11.0	1.0	µg/L	10.00	ND	110		70-130	0.00		30	
Chlorodibromomethane	10.1	0.50	µg/L	10.00	ND	101		70-130	3.64		30	
Chloroethane	11.7	2.0	µg/L	10.00	ND	117		70-130	14.6		30	
Chloroform	10.5	2.0	µg/L	10.00	ND	105		70-130	2.64		30	
Chloromethane	8.62	2.0	µg/L	10.00	ND	86.2		70-130	7.27		30	
Cyclohexane	9.86	5.0	µg/L	10.00	ND	98.6		70-130	1.01		30	
1,2-Dibromo-3-chloropropane (DBCP)	8.39	5.0	µg/L	10.00	ND	83.9		70-130	13.8		30	
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.00	ND	103		70-130	1.86		30	
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.00	ND	100		70-130	0.0997		30	
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.00	ND	100		70-130	1.61		30	
1,4-Dichlorobenzene	9.31	1.0	µg/L	10.00	ND	93.1		70-130	3.07		30	
Dichlorodifluoromethane (Freon 12)	8.87	2.0	µg/L	10.00	ND	88.7		70-130	2.56		30	
1,1-Dichloroethane	11.4	1.0	µg/L	10.00	ND	114		70-130	1.05		30	
1,2-Dichloroethane	11.5	1.0	µg/L	10.00	ND	115		70-130	4.73		30	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.00	ND	111		70-130	4.07		30	
cis-1,2-Dichloroethylene	11.0	1.0	µg/L	10.00	ND	110		70-130	1.62		30	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106		70-130	5.61		30	
1,2-Dichloropropane	10.5	1.0	µg/L	10.00	ND	105		70-130	3.18		30	
cis-1,3-Dichloropropene	8.61	0.50	µg/L	10.00	ND	86.1		70-130	1.61		30	
trans-1,3-Dichloropropene	8.07	0.50	µg/L	10.00	ND	80.7		70-130	1.25		30	
Ethylbenzene	10.2	1.0	µg/L	10.00	ND	102		70-130	0.393		30	
2-Hexanone (MBK)	95.5	10	µg/L	100.0	ND	95.5		70-130	3.31		30	
Isopropylbenzene (Cumene)	9.65	1.0	µg/L	10.00	ND	96.5		70-130	0.517		30	
p-Isopropyltoluene (p-Cymene)	9.08	1.0	µg/L	10.00	ND	90.8		70-130	2.11		30	
Methyl Acetate	9.23	1.0	µg/L	10.00	ND	92.3		70-130	5.58		30	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	9.76	1.0	µg/L	10.00	ND	97.6		70-130	1.12		30	
Methyl Cyclohexane	9.82	1.0	µg/L	10.00	ND	98.2		70-130	2.79		30	
Methylene Chloride	11.0	5.0	µg/L	10.00	ND	110		70-130	1.26		30	
4-Methyl-2-pentanone (MIBK)	98.8	10	µg/L	100.0	ND	98.8		70-130	3.40		30	
Naphthalene	4.89	2.0	µg/L	10.00	ND	**48.9**	*	70-130	**30.9**	*	30	MS-09, R-06, V-05
n-Propylbenzene	9.92	1.0	µg/L	10.00	ND	99.2		70-130	0.810		30	
Styrene	9.19	1.0	µg/L	10.00	ND	91.9		70-130	1.40		30	
1,1,2,2-Tetrachloroethane	9.78	0.50	µg/L	10.00	ND	97.8		70-130	2.12		30	
Tetrachloroethylene	11.2	1.0	µg/L	10.00	ND	112		70-130	5.79		30	
Toluene	11.2	1.0	µg/L	10.00	ND	112		70-130	0.268		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 B391082 - SW-846 5030B										
Matrix Spike Dup (B391082-MSD1)	**Source: 24J4070-08**			Prepared: 10/31/24 Analyzed: 11/02/24						
1,2,3-Trichlorobenzene	8.57	5.0	µg/L	10.00	ND	85.7	70-130	12.9	30	
1,2,4-Trichlorobenzene	7.64	1.0	µg/L	10.00	ND	76.4	70-130	14.8	30	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.00	ND	105	70-130	3.37	30	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.00	ND	109	70-130	1.66	30	
Trichloroethylene	10.6	1.0	µg/L	10.00	ND	106	70-130	0.282	30	
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.00	ND	116	70-130	3.05	30	
1,2,3-Trichloropropane	9.10	2.0	µg/L	10.00	ND	91.0	70-130	15.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.00	ND	102	70-130	6.00	30	
1,2,4-Trimethylbenzene	9.04	1.0	µg/L	10.00	ND	90.4	70-130	2.51	30	
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.00	ND	100	70-130	1.41	30	
Vinyl Chloride	10.4	2.0	µg/L	10.00	ND	104	70-130	1.16	30	
m+p Xylene	20.6	2.0	µg/L	20.00	ND	103	70-130	0.00	20	
o-Xylene	9.75	1.0	µg/L	10.00	ND	97.5	70-130	1.02	30	
Xylenes (total)	30.3	1.0	µg/L	30.00	ND	101	0-200	0.329		
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.00		99.0	70-130			
Surrogate: Toluene-d8	*26.2*		µg/L	25.00		105	70-130			
Surrogate: 4-Bromofluorobenzene	*24.2*		µg/L	25.00		96.9	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.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
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
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

Pace Analytical®

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245 4070

https://www.pacelabs.com/

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Labella
Address:	5 McCrea Hill Road, Ballsoton Spa, New York
Phone:	518-337-7635
Project Name:	NYSDEC - Former Ithaca Gun Facotry Offsite
Project Location:	121-125 Lake St, Ithaca, NY
Project Number:	151968
Project Manager:	Thomas Giamichael
Pace Analytical Quote Name/Numb	Callout# 151968
Invoice Recipient:	NYSDEC Region 7
Sampled By:	Thomas Gialmichael

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: Standard TAT

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other: CAT B Deliverable
CLP Like Data Pkg Required: ☐
Email To: Tgiamichael@LabellaPC.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Date	Time	Composite	Grab	[1]Matrix Code	Conc Code	TCL VOCs (8260)	3	H	V	# of Containers	[2] Preservation Code	[3] Container Code
1	AZMW-7	10/23/2024	10:51		X	GW	U	X						
2	AZMW-8	10/23/2024	12:26		X	GW	U	X						
3	AZMW-3	10/23/2024	13:34		X	GW	U	X						
4	AZMW-4	10/23/2024	15:17		X	GW	U	X						
5	AZMW-6	10/23/2024	16:25		X	GW	U	X						
6	AZMW-5	10/24/2024	10:36		X	GW	U	X						
7	AZMW-2	10/24/2024	12:14		X	GW	U	X						
8	MW-6	10/24/2024	14:50		X	GW	U	X						
9	MS-MW-6	10/20/1902	14:50		X	GW	U	X						
10	MSD-MW-6	10/24/2024	14:50		X	GW	U	X						
11	AZMW-1	10/25/2024	8:09		X	GW	U	X						
12	MW-7	10/25/2024	11:05		X	GW	U	X						
13	FD-1	-	-		X	GW	U	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: Send Report to: Tgiamichael@LabellaPC.com ; Stephen.Catalfamo@dec.ny.gov

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: 10/28/24 1000
Received by: (signature)	PACE	Date/Time: 10/29/24 8:45
Relinquished by: (signature)	PACE	Date/Time: 10/29/24 9:15
Received by: (signature)		Date/Time: 10/30/24 1410
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

Table of Contents

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

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

Client: Loberg

Project: Former Itasca Gun Exchange Office

MCP/RCP Required: NA

Deliverable Package Requirement: NA

Location: 121-125 Lake St, Itasca, MN

PWSID# (When Applicable): NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time: LA 10/30/24 1400

Back-Sheet By / Date / Time: LA 10/30/24 934

Temperature Method: Gun # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp ☑ < 6° C Actual Temperature: 3.8

Rush Samples: Yes / (No) Notify: _____

Short Hold: Yes / (No) Notify: _____

	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 ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

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

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Sample		
																				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
									1	—	9	—	1						3	HCl		
																				MeOH		
																				D.I. Water		
																				BiSulfate		
																				Col/Bact		Other / Fill in

ATTACHMENT - C

Data Usability Summary Report (DUSR)

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Ithaca Gun: 121-125 Lake St., Ithaca, NY
Pace Analytical Laboratory SDG#24J4070
November 29, 2024
Sampling date: 10/23-25/2024

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for LaBella Associates, project located at 121-125 Lake St., Ithaca, NY, Pace Analytical Laboratory SDG #24J4070 submitted to Vali-Data of WNY, LLC on November 14, 2024. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using the USEPA method Volatile Organics (8260D).

ID	Sample ID	Laboratory ID
1	AZMW-7	24J4070-01
2	AZMW-8	24J4070-02
3	AZMW-3	24J4070-03
4	AZMW-4	24J4070-04
5	AZMW-6	24J4070-05
6	AZMW-5	24J4070-06
7	AZMW-2	24J4070-07
8	MW-6	24J4070-08
9	AZMW-1	24J4070-09
10	MW-7	24J4070-10
11	FD-1	24J4070-11

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the

procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
All criteria were met.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Methyl Acetate was outside QC limits, high in B391082-BS1/BSD1. This target analyte was not detected in the associated samples, so no further action is required.

MS/MSD
All criteria were met except a couple of target analytes were outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	%Rec #8MS	%Rec #8MSD	%RPD	Qualifier	Associated Sample
Naphthalene	35.8	48.9	30.9	UJ	8
Bromomethane	-	-	34.1	UJ	8

Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate

but not both, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except a target analyte was outside QC limits in the continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%D/RRF	Qualifier	Associated Sample
S113269-CCV1	Naphthalene	-31.0	UJ/J	B391082, 1-11, 8MS/MSD

GC/MS PERFORMANCE CHECK
All criteria were met.

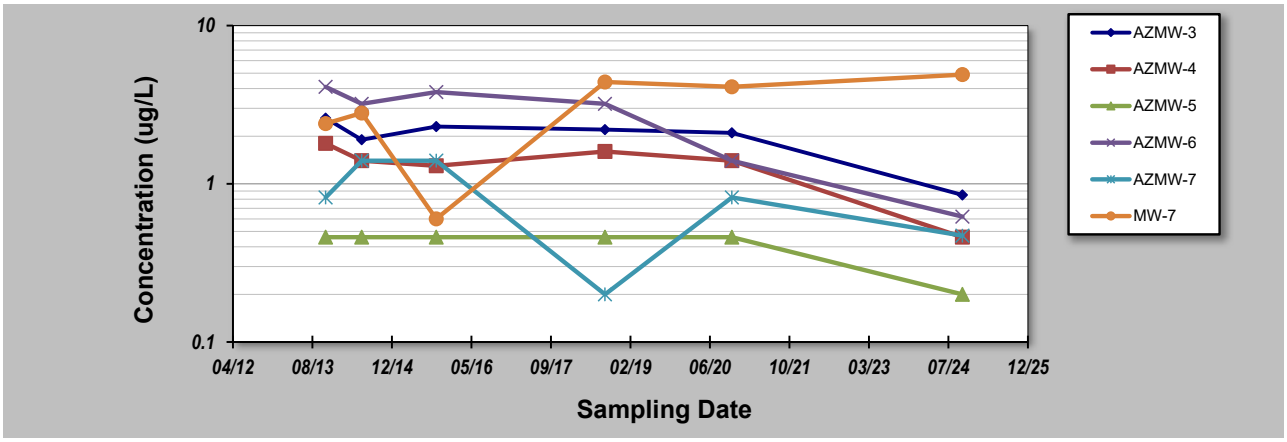
ATTACHMENT - D

Mann-Kendall Trend Analysis

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	17-Dec-24	Job ID:	
Facility Name:	Former Ithaca Gun Factory - Off-Site	Constituent:	TCE
Conducted By:		Concentration Units:	ug/L

Sampling Point ID:	AZMW-3	AZMW-4	AZMW-5	AZMW-6	AZMW-7	MW-7
Sampling Event	Sampling Date	TCE CONCENTRATION (ug/L)					
1	Nov-13	**2.6**	**1.8**	0.46	**4.1**	**0.82**	**2.4**
2	Jun-14	1.9	**1.4**	0.46	**3.2**	**1.4**	**2.8**
3	Oct-15	**2.3**	**1.3**	0.46	**3.8**	**1.4**	**0.6**
4	Aug-18	**2.2**	**1.6**	0.46	**3.2**	0.2	**4.4**
5	Nov-20	**2.1**	**1.4**	0.46	**1.4**	**0.82**	**4.1**
6	Oct-24	**0.85**	**0.46**	**0.2**	**0.62**	**0.47**	**4.9**
7							
8							
9							
10							
11							
12							
13							
14							
15		Comments					
16		**Bold:**	Result detected above the method detection limit (MDL)				
17		Gray:	Result non-detect. Value presented is the MDL.				
18							
19							
20							
Coefficient of Variation:		0.30	0.35	0.25	0.51	0.57	0.50
Mann-Kendall Statistic (S):		-9	-8	-5	-12	-5	9
Confidence Factor:		93.2%	89.8%	76.5%	98.2%	76.5%	93.2%
Concentration Trend:		Prob. Decreasing	Stable	Stable	Decreasing	Stable	Prob. Increasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.