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Your ref: General Instrument Corporation Site No. 709010
Our ref: Project 12595756

June 26, 2024; Revised: October 24, 2024

Ms. Jasmine Stefansky
Assistant Geologist (Environmental)
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, Remedial Section D
625 Broadway, 12th Floor
Albany, New York 12233-7017

Re: 2024 Groundwater Monitoring Report – March 2024 Sampling Event
Former General Instrument Corporation Site, Sherburne, New York

Dear Ms. Stefansky:

On behalf of Vishay GSI, Inc. (VGSI), and at the request of our client, Askin & Hooker, LLC, GHD Consulting Services Inc. (GHD) has prepared this report summarizing results from the March 2024 Groundwater Sampling Event conducted at the former General Instrument Corporation (GIC) site in Sherburne, New York (Site No. 709010, Site). This work is being performed as an extension of the performance monitoring program following supplemental groundwater remedial action implemented in 2014 and at the request of the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH). The March 2024 Groundwater Sampling Event discussed herein is the third of the three additional events requested by NYSDEC in advance of re-evaluating the P-8 supplemental remedial status and continuing discussions related to cessation of future groundwater monitoring and closure of the groundwater remedy portion of the Site.

Activities at the Site, including the additional groundwater monitoring detailed below, are being performed in accordance with the Order on Consent (#A701578810), signed by GIC on August 1, 1989, and a Record of Decision (ROD), issued for the Site in December 1994 by the NYSDEC.

1. Site Description and Background

The former GIC facility is located at 1 BrightPet Drive (formerly known as Kenyon Press Drive) in Sherburne, Chenango County, New York (Figure 1). The approximately 6.5-acre Site was developed and used by Technical Appliance Corporation of America to produce aluminum television antennas and other small electronics starting in 1947. The facility was subsequently purchased by Jerrold Electronic Corporation in 1962 and then by GIC in 1969, who continued production until manufacturing operations ceased at the Site in 1983. The facility was decommissioned and subsequently sold in 1989 to Kenyon Press, Inc., a commercial offset printing company, which operated at the Site until November 2018. The property was sold to BrightPet Nutrition Group (BrightPet) of Lisbon, Ohio, in September 2019. BrightPet currently utilizes the facility as a warehouse and distribution center for various packaged pet foods and supplies.

The physical layout of the Site is generally consistent with that present when the GIC facility was decommissioned in 1983. The Site consists of the following: a 75,000-square-foot main building formerly used for manufacturing and currently used for warehousing and administration; a 4,900-square-foot building formerly used for plating, etching, and vapor degreasing and currently used for storage (connected to main building via a

passageway); a 1,600-square-foot garage near the southeast corner of the main building that was formerly used as a maintenance shop and currently used for storage; and a 2,800-square-foot wooden shed near the northern property line that was and currently is used for storage (Figure 2). The Site is zoned industrial and is currently utilized for commercial uses. The Site is occupied by Southern Tier Pet Nutri, LLC, who utilizes the Site as a warehouse and distribution center for various pet foods and supplies. The Site is adjoined by a bulk petroleum storage facility and retail gasoline station to the north; light commercial properties and residences to the east and south; the Delaware Lackawanna & Western (DL&W) Railroad to the west; and further to the west by agricultural fields.

1.1 Remedial Actions

Soil and groundwater at the Site, which were primarily contaminated with chlorinated volatile organic compounds (VOCs), are being remediated under the oversight of the NYSDEC and NYSDOH. The contaminants of concern (COCs) for the Site have been identified as trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dicholorethene (trans-1,2-DCE), and vinyl chloride (VC). The NYSDEC-approved Site remedies, as detailed in the 1994 Record of Decision (ROD), were:

– the installation and operation of a soil vapor extraction (SVE) system to address VOCs remaining in the unsaturated soil in the apparent release area, north of the northern wall of the main building, west of the western wall of the former plating building, and beneath the former plating building.
– the installation and operation of short-term pumping wells with on-Site treatment to address a limited area of free-phase petroleum product near the northwest corner of the main building and extending into the fields to the west.

These remedial systems were decommissioned in the mid to late 1990s after the NYSDEC agreed that their respective cleanup targets established at the time had been achieved.

Additionally, the groundwater remedy at the Site included the installation of a permeable reactive barrier (PRB) designed to treat the dissolved chlorinated VOCs passively as they flow through the wall along with groundwater. The PRB was constructed in 1997 in the agricultural fields west of the facility and remains in operation. VGSI subsequently implemented two supplemental remedial actions: treatment of impacted groundwater bypassing the PRB at its northern and southern ends in 2009 and treatment of recalcitrant chlorinated VOCs upgradient of the PRB near monitoring well P-8 in 2014. The combined groundwater remedies have substantially reduced the dissolved chlorinated VOCs mass, with concentrations of degradation byproducts cis-1,2-DCE and VC in samples from groundwater monitoring wells near the southern end of the PRB being the only exceedances of the NYSDEC Class GA water quality standards during recent groundwater monitoring events.

2. Groundwater Sampling Activities

Field work for the March 2024 Groundwater Sampling Event was completed on March 28, 2024. Activities included collection of groundwater elevations for the monitoring well network and sampling using low flow purging techniques as described below.

2.1 Groundwater Elevations

Prior to purging, depth to water level measurements from the six monitoring wells were recorded to calculate groundwater elevations for the Site. The calculated groundwater elevations ranged from 1,045.43 feet above mean sea level (AMSL) near the southern end of the PRB (MW-22) to 1,046.03 feet AMSL near the northern end of the PRB (P-8), which is within the historical range observed at the Site. The elevation of the groundwater table was on average 2.88 feet higher than what was observed in October 2022. Given the configuration of monitoring wells (i.e., generally in a north-south line), no groundwater gradient was calculated. However, a groundwater elevation contour map has been prepared for this report (Figure 3) to the extent that it was

possible given the monitoring well locations generally being in a straight line. Historical evaluations have documented a generally consistent west-southwest direction of groundwater flow across the Site, similar to that evidenced by the March 2024 sampling event.

2.2 Sampling

Groundwater samples for analysis of VOCs were collected on March 28, 2024 from all six of the Site monitoring wells (MW-17, MW-22, MW-31, MW-32, MW-34, and P-8). The wells were purged using low flow techniques with a bladder pump and air compressor with dedicated tubing at each well. Depth to water measurements were periodically recorded to ensure drawdown did not exceed 0.3 feet. Field parameters, including temperature, pH, specific conductance, dissolved oxygen (DO), turbidity, and oxidation reduction potential (ORP) were recorded every five minutes using a multi-parameter water quality meter to assess for stabilization of groundwater conditions (Appendix A). The bladder pump and non-dedicated down-well equipment were decontaminated between use at each well by washing in an Alconox and potable water solution, rinsing with potable water, and allowing to air dry. Decontamination liquids were containerized along with monitoring well purge water for later characterization and off-site disposal.

Once field parameters stabilized, the multi-parameter water quality meter was disconnected, and groundwater samples were collected by filling laboratory provided sample containers directly from the dedicated tubing. In addition to normal samples, the following Quality Assurance/Quality Control (QA/QC) samples were collected:

– One trip blank
– One blind field duplicate
– One matrix spike/matrix spike duplicate.

Groundwater samples were packed in ice-filled coolers and submitted to Alpha Analytical, a New York State Environmental Laboratory Approval Program (ELAP)-accredited laboratory in Westborough, Massachusetts, to be analyzed for VOCs using USEPA Method 8260D. A copy of the laboratory analytical report is provided in Appendix B.

Purge water from the monitoring wells was placed in a labeled 55-gallon steel drum located on the Site and sealed for disposal at a later date. The groundwater results were submitted to the NYSDEC EQuIS database on October 4, 2024, and successfully uploaded the same day.

3. Groundwater Monitoring Results

The following sections discuss the groundwater monitoring results as they relate to groundwater standards for the Site.

3.1 Data Validation

The laboratory results were validated by qualified personnel within GHD that were not directly involved in the collection or analysis of the samples. Minor qualification of laboratory results included addition of ‘J’ flags to indicate estimated concentrations based on various factors, with vinyl chloride detections in the samples from MW-22, MW-31, and MW-32 being the only Site COC impacted. A copy of the data validation report is included in Appendix C and the findings were used to update the analytical results presented within this letter.

3.2 Laboratory Analytical Results

Based on the results of laboratory analysis, most VOCs were not detected above the method detection limits. Site COCs were detected in the groundwater samples, as follows:

– **MW-17:** VC (estimated at 0.12 micrograms per liter [µg/L] and estimated at 0.16 µg/L [Duplicate])

- **MW-22:** TCE (estimated at 0.36 µg/L), cis-1,2-DCE (18 µg/L), trans-1,2-DCE (estimated at 0.94 µg/L), and VC (estimated at 11 µg/L)
- **MW-31:** TCE (1.6 µg/L) and cis-1,2-DCE (12 µg/L)
- **MW-32:** cis-1,2-DCE (8.9 µg/L) and VC (estimated at 5.3 µg/L)
- **MW-34:** VC (estimated at 0.53 µg/L)
- **P-8:** VC (estimated at 0.48 µg/L)

Site COCs were detected in groundwater samples from the following wells at concentrations that exceed their respective Class GA groundwater standards: 5 µg/L for cis-1,2-DCE and 2 µg/L for VC.

- **MW-22:** cis-1,2-DCE (18 µg/L) and VC (estimated at 11 µg/L)
- **MW-31:** cis-1,2-DCE (12 µg/L)
- **MW-32:** cis-1,2-DCE (8.9 µg/L) and VC (estimated at 5.3 µg/L)

Each of these wells are located near the southern end of the PRB (Figure 3).

4. Discussion

The results of the March 2024 groundwater monitoring event are consistent with those of previous monitoring events and continue to demonstrate decreasing trends or non-detect concentrations for Site COCs in most of the samples. Time series plots depicting concentrations of Site COCs detected in samples from the Site's remaining groundwater monitoring wells are included in Appendix D.

4.1 Northern Wells

Site COCs were not detected in groundwater samples from the three wells near the northern end of the PRB above laboratory reporting limits and only VC in each of the samples was detected above the laboratory method detection limit, with each detection flagged as an estimated concentration. This is consistent with decreasing trends historically identified in this portion of the Site, especially those observed following the most recent supplemental remedial action performed in 2014. TCE concentrations have not been detected above the Class GA groundwater standard in samples taken from these wells since at least the December 2016 monitoring event (P-8). Similarly, cis-1,2-DCE and VC concentrations in samples taken from MW-17 and MW- 34 have not exceeded the Class GA groundwater standards since at least the April 2019 monitoring event (sample from MW-17 for cis-1,2-DCE) and the June 2015 monitoring event (sample from MW-17 for VC).

The initial increases in concentrations of cis-1,2-DCE and VC detected in samples from P-8 following the supplemental remedial action, which were not unexpected based on the sequential degradation of TCE, have also decreased significantly over time and have not exceeded Class GA groundwater standards since the October 2020 monitoring event (cis-1,2-DCE) and the July 2021 monitoring event (VC). The decreases observed are expected to continue over time given the trends established and the lack of TCE in the vicinity.

4.2 Southern Wells

During the March 2024 monitoring event, concentrations of Site COCs that exceed the Class GA groundwater standards were detected in samples from the wells near the southern end of the PRB (MW-22, MW-31, and MW-32) for degradation byproducts of TCE, which is consistent with findings presented in the July 2021 and October 2022 groundwater reports. Concentrations of cis-1,2-DCE detected in March 2024 decreased significantly compared to those detected in October 2022, with decreases of 38.5%, 66.1%, and 79.6 % in samples from wells MW-22, MW-31, and MW-32, respectively. Vinyl chloride concentrations remained more consistent with those observed during historical sampling events at these wells, which have varied slightly since 2014. The cis-1,2-DCE and VC trends observed are not uncommon due to the sequential degradation of TCE, and further decreases are anticipated to occur over time, as discussed in previous reports for the Site. TCE and

trans-1,2-DCE concentrations were also consistent with recent trends and either not detected above the laboratory method detection limit or detected at concentrations below the Class GA groundwater standards. This lack of elevated concentrations of TCE in groundwater samples further supports the likely continued improvement of groundwater quality, relative to cis-1,2-DCE and VC concentrations, in the vicinity of the southern end of the PRB.

5. Conclusions

Overall, concentrations of chlorinated VOCs in groundwater samples from across the Site's remaining groundwater monitoring wells have decreased, with many reaching concentrations not detected above laboratory method detection limits or below the Class GA groundwater standard for at least the three most recent monitoring events.

The findings of this report suggest that the supplemental remedial actions taken at the Site and in off-Site areas were successful in treating Site groundwater for chlorinated VOCs impacts. Groundwater monitoring will continue at the Site's six groundwater monitoring wells at a frequency of once every sixteen months, with samples being analyzed for VOCs, until NYSDEC approves otherwise. In addition, the next groundwater monitoring event, tentatively scheduled for July 2025, will include one-time sampling and laboratory analysis for the NYSDEC-requested Monitored Natural Attenuation (MNA) parameters at monitoring wells MW-22, MW- 31, and MW-32 only.

Sincerely,

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Enclosures:
Figure 1: Site Location
Figure 2: Site Layout Map
Figure 3: Groundwater Monitoring Results
Table 1: Groundwater Elevation Summary
Table 2: Historical Groundwater Elevation Summary
Table 3: Chlorinated VOCs in Groundwater Summary
Table 4: Historical Analytical Summary
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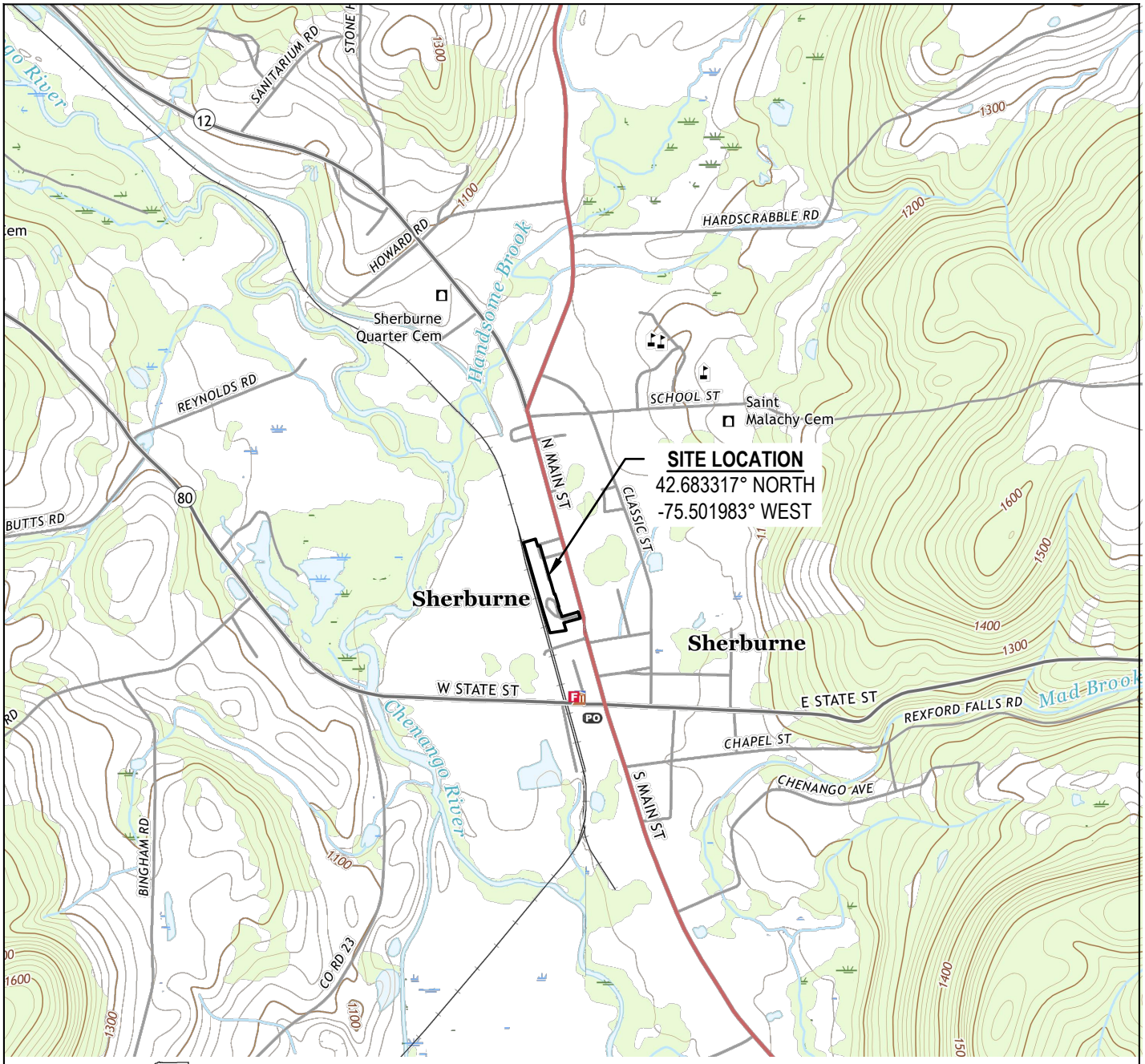
Appendix B: Laboratory Analytical Report
Appendix C: Data Validation Report
Appendix D: Time Series Plots

Figures

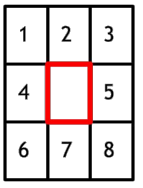


QUADRANGLE LOCATION

N

Contour Interval: 20 Feet

Map Taken From: USGS 7.5 Minute Series Topographic Quadrangle; Earlville, NY (2019) and Sherburne, NY (2019) (U.S. Geological Survey)



1 West Eaton
2 Hamilton
3 Hubbardsville
4 Otselic
5 Sherburne
6 East Pharsalia
7 Norwich
8 Holmesville

ADJOINING QUADRANGLES

0 1000 2000 3000 4000'

SCALE 1"=2000' AT ORIGINAL SIZE

ASKIN & HOOKER, LLC
FORMER GENERAL INSTRUMENT CORPORATION SITE
SHERBURNE, NEW YORK
2024 GROUNDWATER MONITORING REPORT

Project No. **12595756**
Date **04.2024**

SITE LOCATION

FIGURE 1

Filename: G:\564\12595756\Digital_Design\ACAD\Figures\12595756-RPT-Groundwater-2024-FIG01-Site Location.dwg
Plot Date: 31 May 2024 9:27 AM

Data Source

LEGEND

MW-34 GROUNDWATER MONITORING WELL

P-8 PIEZOMETER

MW-36 FORMER MONITORING WELL OR PIEZOMETER (DECOMMISSIONED)

PROPERTY LINE

RAILROAD

PERMEABLE REACTIVE BARRIER

NOTES:

1. SITE FEATURES TAKEN FROM PREVIOUS REPORTS PREPARED BY OTHERS
2. AERIAL IMAGES ARE 1-FOOT RESOLUTION TRUE COLOR IMAGERY DATED 2022 AND TAKEN FROM THE NYS GIS CLEARINGHOUSE WEBSITE.

N

0 75 150 225 300'

SCALE 1"=150' AT ORIGINAL SIZE

GHD

ASKIN & HOOKER, LLC
FORMER GENERAL INSTRUMENT CORPORATION SITE, SHERBURNE, NEW YORK
2024 GROUNDWATER MONITORING REPORT

SITE LAYOUT MAP

Project No. **12595756**
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FIGURE 2

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Plot Date: 11 June 2024 8:47 AM

LEGEND

MW-34 MONITORING WELL

P-8 PIEZOMETER

MW-36 FORMER MONITORING WELL OR PIEZOMETER (DECOMMISSIONED)

PROPERTY LINE

RAILROAD

PERMEABLE REACTIVE BARRIER

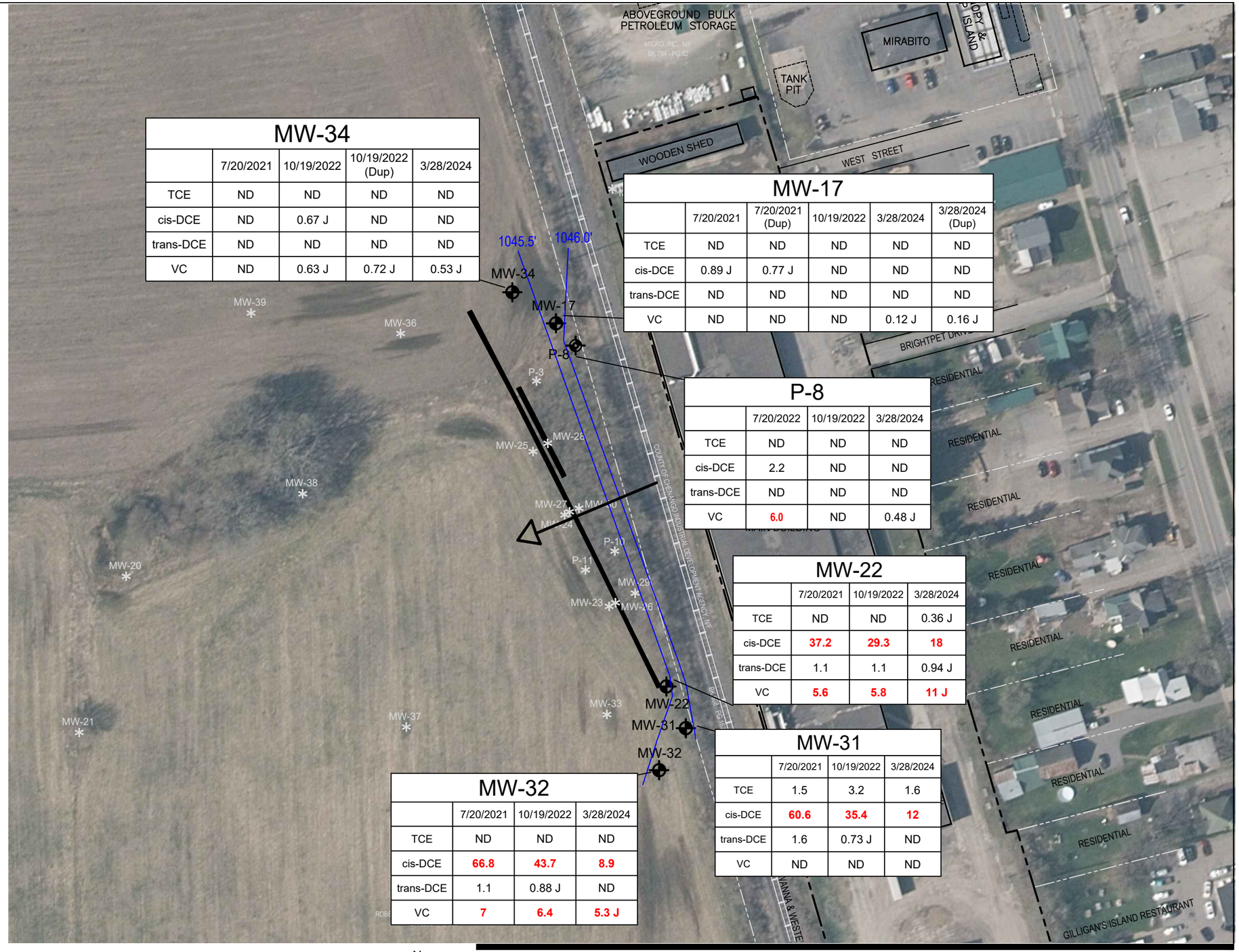
APPROXIMATE GROUNDWATER FLOW DIRECTION

APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE

NOTES:

1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L).
2. RED AND BOLD INDICATES CONCENTRATION EXCEEDED THE CLASS GA GROUNDWATER STANDARD FOR THE RESPECTIVE ANALYTE (NYSDEC TOGS 1.1.1, JUNE 1998 AND SUBSEQUENT ADDENDA).
3. ND FOR OCTOBER 2022 AND JULY 2021 DATA INDICATES CONCENTRATION WAS BELOW THE LABORATORY REPORTING LIMIT.
4. ND FOR MARCH 2024 DATA INDICATES CONCENTRATION WAS BELOW THE METHOD DETECTION LIMIT.
5. DUP INDICATES THE SAMPLE WAS A BLIND FIELD DUPLICATE.
6. J INDICATES THAT THE REPORTED CONCENTRATION IS AN ESTIMATED VALUE.
7. SITE FEATURES TAKEN FROM PREVIOUS REPORTS PREPARED BY OTHERS.
8. AERIAL IMAGES ARE 1-FOOT RESOLUTION TRUE COLOR IMAGERY DATED 2022 AND TAKEN FROM THE NYS GIS CLEARINGHOUSE WEBSITE.

ANALYTE	CLASS GA TOGS 1.1.1 (µg/L)
TCE	5
cis-DCE	5
trans-DCE	5
VC	**2**



MW-34				
	7/20/2021	10/19/2022	10/19/2022 (Dup)	3/28/2024
TCE	ND	ND	ND	ND
cis-DCE	ND	0.67 J	ND	ND
trans-DCE	ND	ND	ND	ND
VC	ND	0.63 J	0.72 J	0.53 J

MW-17					
	7/20/2021	7/20/2021 (Dup)	10/19/2022	3/28/2024	3/28/2024 (Dup)
TCE	ND	ND	ND	ND	ND
cis-DCE	0.89 J	0.77 J	ND	ND	ND
trans-DCE	ND	ND	ND	ND	ND
VC	ND	ND	ND	0.12 J	0.16 J

P-8			
	7/20/2022	10/19/2022	3/28/2024
TCE	ND	ND	ND
cis-DCE	2.2	ND	ND
trans-DCE	ND	ND	ND
VC	**6.0**	ND	0.48 J

MW-22			
	7/20/2021	10/19/2022	3/28/2024
TCE	ND	ND	0.36 J
cis-DCE	**37.2**	**29.3**	**18**
trans-DCE	1.1	1.1	0.94 J
VC	**5.6**	**5.8**	**11 J**

MW-31			
	7/20/2021	10/19/2022	3/28/2024
TCE	1.5	3.2	1.6
cis-DCE	**60.6**	**35.4**	**12**
trans-DCE	1.6	0.73 J	ND
VC	ND	ND	ND

MW-32			
	7/20/2021	10/19/2022	3/28/2024
TCE	ND	ND	ND
cis-DCE	**66.8**	**43.7**	**8.9**
trans-DCE	1.1	0.88 J	ND
VC	**7**	**6.4**	**5.3 J**

N

0 75 150 225 300'

SCALE 1"=150' AT ORIGINAL SIZE

GHD

ASKIN & HOOKER, LLC
FORMER GENERAL INSTRUMENT CORPORATION SITE, SHERBURNE, NEW YORK
2024 GROUNDWATER MONITORING REPORT

GROUNDWATER MONITORING RESULTS

Project No. **12595756**
Date **04.2024**

FIGURE 3

Filename: G:\564\12595756\Digital_Design\ACAD\Figures\12595756-RPT-Groundwater-2024-FIG03-Results.dwg
Plot Date: 07 October 2024 9:59 AM

Tables

Table 1

Groundwater Elevation Summary
Former General Instrument Corporation Site
Sherburne, New York

Well ID	Date	Ground Elevation (Feet AMSL)	Reference Elevation (Feet AMSL)	Depth To Water (Feet)	Groundwater Elevation (Feet AMSL)	Depth Below Ground Surface (Feet)
MW-17	07/20/21	1047.85	1050.74	6.22	1044.52	3.33
	10/19/22	1047.85	1050.74	7.85	1042.89	4.96
	03/01/24	1047.85	1050.74	4.81	1045.93	1.92
MW-22	07/20/21	1048.09	1051.24	5.92	1045.32	2.77
	10/19/22	1048.09	1051.24	8.26	1042.98	5.11
	03/01/24	1048.09	1051.24	5.81	1045.43	2.66
MW-31	07/20/21	1048.40	1050.54	5.88	1044.66	3.74
	10/19/22	1048.40	1050.54	7.46	1043.08	5.32
	03/01/24	1048.40	1050.54	4.55	1045.99	2.41
MW-32	07/20/21	1047.42	1048.92	4.36	1044.56	2.86
	10/19/22	1047.42	1048.92	5.99	1042.93	4.49
	03/01/24	1047.42	1048.92	3.10	1045.82	1.60
MW-34	07/20/21	1046.39	1048.38	4.27	1044.11	2.28
	10/19/22	1046.39	1048.38	5.89	1042.49	3.90
	03/01/24	1046.39	1048.38	2.94	1045.44	0.95
P-8	07/20/21	1048.81	1051.32	6.70	1044.62	4.19
	10/19/22	1048.81	1051.32	8.34	1042.98	5.83
	03/01/24	1048.81	1051.32	5.29	1046.03	2.78

Notes:

AMSL - above mean sea level

Table 2

Historical Groundwater Elevation Summary
Former General Instrument Corporation Site
Sherburne, New York

Well ID Date	MW-17	MW-22	MW-31	MW-32	MW-34	P-8
6/2/04	1044.07	1044.13	-	-	-	1044.09
11/2/04	1044.14	1044.19	-	-	-	1044.19
6/1/05	1043.28	1043.40	-	-	-	1043.31
12/1/05	1044.36	1044.45	1044.45	1044.42	1044.20	1044.39
7/20/06	1044.85	1044.88	1044.89	1044.87	1044.62	1044.88
12/22/06	1044.16	1044.25	1044.28	1044.24	1043.90	1044.21
6/29/07	1043.02	1043.09	1043.12	1043.10	1042.70	1043.03
12/20/07	1044.81	1044.87	1044.86	1044.89	1044.54	1044.84
6/12/08	1043.18	1043.31	1043.34	1043.02	1042.84	1043.22
12/29/08	1046.95	1046.68	1046.62	1046.61	1046.80	1046.95
6/16/09	1043.53	1043.66	1043.69	1043.64	1043.17	1043.57
2/6/10	1044.37	1044.31	1044.43	1044.37	1044.00	1044.43
3/30/10	1045.94	1045.79	1045.86	1045.92	1045.60	1045.88
6/30/10	1043.35	1043.35	1043.45	1043.41	1042.97	1043.39
9/20/10	1042.69	1042.67	1042.79	1042.75	1042.34	1042.71
12/16/10	1045.33	1045.15	1045.25	1045.23	1044.94	1045.33
3/29/11	1045.76	1045.54	1045.64	1045.62	1045.36	1045.70
6/20/11	1043.69	1043.71	1043.83	1043.81	1043.40	1043.74
10/4/11	1045.84	1045.73	1045.82	1045.82	1045.53	1045.87
12/15/11	1044.68	1044.64	1044.75	1044.73	1044.36	1044.69
7/6/12	1043.08	1043.10	1043.19	1043.19	1042.73	1043.12
11/29/12	1043.35	1043.33	1043.43	1043.41	1043.02	1043.37
6/3/13	1044.21	1045.11	1045.21	1045.18	1044.68	1045.23
12/23/13	1046.66	1046.36	1046.44	1046.42	1046.47	1046.68
5/31/14	1044.53	1044.26	1044.33	1044.14	1043.86	1044.59
12/23/14 [(2)]	1044.85	1044.91	1044.99	1044.88	1044.49	1045.90
3/19/15	1044.51	-	-	-	-	1044.57
6/26/15	1044.30	1044.33	1044.44	1044.29	1043.87	1044.39
12/10/15	1044.99	1044.84	1045.06	1044.92	1044.36	1045.27
4/27/16	1044.12	1044.15	1044.24	1044.12	1043.69	1044.22
8/30/16	1043.28	1043.40	1043.50	1043.58	1042.83	1043.34
12/20/16	1045.99	1045.89	1045.95	1045.19	1045.57	1046.01
4/19/17	1045.18	1045.07	1045.16	1045.06	1044.66	1045.16
5/11/17	1045.90	1045.68	1045.75	1045.65	1045.40	1045.84
8/23/17	1043.60	1043.70	1043.81	1043.66	1043.11	1043.75
12/7/17	-	-	-	-	-	1044.00
4/17/18	1045.89	1045.85	1045.93	1045.84	1045.56	1045.99
4/17/19	1045.35	-	1045.63	-	-	1045.45
4/28/20	1045.23	1045.30	1045.38	1045.24	1044.77	1045.37
7/20/21	1044.52	1045.32	1044.66	1044.56	1044.11	1044.62
10/18/22	1042.89	1042.98	1043.08	1042.93	1042.49	1042.98
3/28/24	1045.93	1045.43	1045.99	1045.82	1045.44	1046.03

Notes:

1. All measurements are in feet above mean sea level
2. The depth to water measurement and calculated groundwater elevation at P-8 in December 2014 are considered inaccurate due to the presence of SRS-Z® amendment in the well at the time.

Table 3

Chlorinated VOCs in Groundwater Summary
Former General Instrument Corporation Site
Sherburne, New York

		NORTHERN WELLS								
Well Identification:		**MW-17 (a)**			**MW-34 (a)**			**P-8**		
Sample Date:		**07/20/21**	**10/19/22**	**03/28/24**	**07/20/21**	**10/18/22**	**03/28/24**	**07/20/21**	**10/19/22**	**03/28/24**
Volatile Organic Compounds (µg/L)	**TOGS Class GA (µg/L)**									
Trichloroethene	5	1.0 U (1.0 U)	1.0 U	0.50 U (0.50 U)	1.0 U	1.0 U (1.0 U)	0.50 U	1.0 U	1.0 U	0.50 U
cis-1,2-Dichloroethene	5	0.89 J (0.77 J)	1.0 U	2.5 U (2.5 U)	1.0 U	0.67 J (1.0 U)	2.5 U	2.2	1.0 U	2.5 U
trans-1,2-Dichloroethene	5	1.0 U (1.0 U)	1.0 U	2.5 U (2.5 U)	1.0 U	1.0 U (1.0 U)	2.5 U	1.0 U	1.0 U	2.5 U
Vinyl chloride	2	1.0 U (1.0 U)	1.0 U	0.12 J (0.16 J)	1.0 U	0.63 J (0.72 J)	0.53 J	**6.0**	1.0 U	0.48 J

		SOUTHERN WELLS								
Well Identification:		**MW-32**			**MW-22**			**MW-31**		
Sample Date:		**07/20/21**	**10/19/22**	**03/28/24**	**07/20/21**	**10/19/22**	**03/28/24**	**07/20/21**	**10/19/22**	**03/28/24**
Volatile Organic Compounds (µg/L)	**TOGS Class GA (µg/L)**									
Trichloroethene	5	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	0.36 J	1.5	3.2	1.6
cis-1,2-Dichloroethene	5	**66.8**	**43.7**	**8.9**	**37.2**	**29.3**	**18**	**60.6**	**35.4**	**12**
trans-1,2-Dichloroethene	5	1.1	0.88 J	2.5 U	1.1	1.1	0.94 J	1.6	0.73 J	2.5 U
Vinyl chloride	2	**7**	**6.4**	**5.3 J**	**5.6**	**5.8**	**11 J**	1.0 U	1.0 U	1.0 U

Notes:

Concentrations in red and bold text exceed TOGS Class GA Standard

µg/L = micrograms per liter

U = compound not detected at or above the laboratory reporting limit

J = estimated result

TOGS Class GA are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1) , dated June 1998, and subsequent addenda

(a) - Results in parentheses are associated with a blind field duplicate of the sample collected from monitoring well

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
MW-17	MW-17	06/01/00		**26**	**510 D**	3.6	**120 D**
MW-17	MW-17	11/01/00		**26**	**420**	20 U	**98**
MW-17	MW-17	05/31/01		**19 J**	**1700 D**	**7.2 J**	**380**
MW-17	MW-17	11/30/01		**15**	**400**	4 U	**61**
MW-17	MW-17	06/17/02		**20**	--	--	**250**
MW-17	MW-17	07/19/02		**18**	**140 D**	1.1	**36**
MW-17	MW-17	12/21/02		**6**	**110**	1 U	**6.4**
MW-17	MW-17	06/28/03		**9.8**	**4500 D**	**11**	**620 D**
MW-17	MW-17	12/19/03		**12**	**140**	2 U	2 U
MW-17	MW-17	06/02/04		**26**	**510 D**	3.6	**120 D**
MW-17	MW-17	6/11/2004		**12 J**	**1700**	20 U	**160**
MW-17	MW-17	11/02/04		**26**	**420**	20 U	**98**
MW-17	MW-17	6/1/2005		**19 J**	**1700 D**	**7.2 J**	**380**
MW-17	MW-17	12/01/05		**15**	**400**	4 U	**61**
MW-17	MW-17	07/20/06		**18**	**140 D**	1.1	**36**
MW-17	MW-17	12/22/06		**6**	**110**	1 U	**6.4**
MW-17	MW-17	06/29/07		**9.8**	**4500 D**	**11**	**620 D**
MW-17	MW-17	12/20/07		**12**	**140**	2 U	2 U
MW-17	MW-17	06/12/08		**12 J**	**1700**	20 U	**160**
MW-17	MW-17	12/29/08		**17**	**160**	2 U	**19**
MW-17	MW-17	06/16/09		**9.8**	**1000 D**	3.8	**120 D**
MW-17	MW-17	01/07/10		2.9	**216**	1 UJ	**44.4**
MW-17	MW-17	03/31/10		4.9	**86.2**	1	**21.2**
MW-17	MW-17	07/01/10		1 U	4.8	**7.4**	**9**
MW-17	MW-17	09/21/10		1 U	2.1	1 U	**2.1**
MW-17	MW-17	12/16/10		1.7	**17.8**	1 U	**3.3**
MW-17	MW-17	03/28/11		2.9	**6.7**	1 U	1 U
MW-17	MW-17	06/20/11		1 U	3.7 J	1 U	1 U
MW-17	MW-17	10/03/11		1.1	**6.3**	1 U	1.1
MW-17	MW-17	12/15/11		1.5	**21**	1 U	**3.1**
MW-17	MW-17	07/06/12		1 U	2.9	1 U	1 U
MW-17	MW-17	11/29/12		1 U	1.9	1 U	1
MW-17	MW-17~DUP	11/29/12	Duplicate	1 U	2	1 U	0.98 J
MW-17	MW-17	06/03/13		0.83 J	2.3	1 U	1
MW-17	MW-17	12/23/13		1 U	1 U	1 U	1 U
MW-17	MW-17	05/27/14		1.9	**9.8**	1 U	2
MW-17	MW-17	09/30/14		1 U	2.1	0.86 J	0.63 J
MW-17	MW-17~DUP	09/30/14	Duplicate	1 U	2.1	0.84 J	0.68 J
MW-17	MW-17	12/22/14		**35.4**	**306**	1.7	**16.9**
MW-17	MW-17	03/19/15		0.38 J	**5.4**	0.67 J	**3.2**
MW-17	MW-17	06/25/15		2	**56.4**	**5.4 J**	**17.7**
MW-17	MW-17~DUP	06/25/15	Duplicate	2.3	**61.8**	**6.7 J**	**20.6**
MW-17	MW-17	12/10/15		1 U	2	1 U	1.6
MW-17	MW-17	04/27/16		1.4 J	**15.8**	1 U	1.8
MW-17	MW-17	08/31/16		1 U	2.7	1 U	1
MW-17	MW-17	12/20/16		1 U	1.4	1 U	1 U
MW-17	MW-17	08/23/17		0.94 J	2.8	1 U	1 U
MW-17	MW-17 ~DUP	08/23/17	Duplicate	0.92 J	3.1	1 U	1 U
MW-17	MW-17	04/17/18		2.7	**25.5**	1 U	1 U
MW-17	MW-17	04/17/19		1 U	**10.1**	1 U	1 U
MW-17	MW-17 ~DUP	04/17/19	Duplicate	1 U	**11**	1 U	1 U
MW-17	MW-17	04/28/20		1 U	1.5	1 U	1 U
MW-17	MW-17 ~DUP	04/28/20	Duplicate	1 U	1.6	1 U	1 U
MW-17	MW-17	07/20/21		1.0 U	0.89 J	1.0 U	1.0 U
MW-17	MW-17~DUP	07/20/21	Duplicate	1.0 U	0.77 J	1.0 U	1.0 U
MW-17	MW-17	10/19/22		1.0 U	1.0 U	1.0 U	1.0 U
MW-17	MW-17A	03/28/24		0.50 U	2.5 U	2.5 U	0.12 J
MW-17	MW-17B	03/28/24	Duplicate	0.50 U	2.5 U	2.5 U	0.16 J

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
MW-22	MW-22	06/01/00		**25**	**90**	**5.6**	4 U
MW-22	MW-22	11/01/00		**33**	**110**	**8.6**	4 U
MW-22	MW-22	05/31/01		**19**	**70**	2.5	2 U
MW-22	MW-22	11/30/01		**13**	**36**	1.8 J	2 U
MW-22	MW-22	06/17/02		**25**	--	--	U
MW-22	MW-22	07/18/02		**12**	**41**	1.8	1 U
MW-22	MW-22	12/21/02		**18**	**81**	2.8	1 U
MW-22	MW-22	06/28/03		**15**	**72**	2.6	1 U
MW-22	MW-22	12/19/03		**10**	**54**	1.5	1 U
MW-22	MW-22	06/02/04		**25**	**90**	**5.6**	4 U
MW-22	MW-22	06/11/04		**11**	**76**	2.2	1 U
MW-22	MW-22	11/02/04		**33**	**110**	**8.6**	4 U
MW-22	MW-22	06/01/05		**19**	**70**	2.5	2 U
MW-22	MW-22	12/01/05		**13**	**36**	1.8 J	2 U
MW-22	MW-22	07/19/06		**12**	**41**	1.8	1 U
MW-22	MW-22	12/22/06		**18**	**81**	2.8	1 U
MW-22	MW-22	06/29/07		**15**	**72**	2.6	1 U
MW-22	MW-22	12/20/07		**10**	**54**	1.5	1 U
MW-22	MW-22	06/12/08		**11**	**76**	2.2	1 U
MW-22	MW-22	12/29/08		1 U	3.9	1 U	1 U
MW-22	MW-22	06/16/09		**11**	**63**	1.9	1 U
MW-22	MW-22	01/07/10		1 U	**11.3**	1 UJ	**8**
MW-22	MW-22	03/31/10		1 U	4.1	1 U	1.8
MW-22	MW-22	07/01/10		2.2	**18.2**	**8.4**	**9.6**
MW-22	MW-22~DUP	07/01/10	Duplicate	2.4	**19.6**	**8.4**	**9.6**
MW-22	MW-22	09/21/10		1.5	**18.3**	2.5	**8.9**
MW-22	MW-22	12/17/10		1.1	**15.2**	3.2	**5.8**
MW-22	MW-22	03/28/11		1 U	2.4	1.2	1 U
MW-22	MW-22	06/20/11		1.3 J	**5.6 J**	1 U	1.6 J
MW-22	MW-22	10/03/11		2.5	**5.8**	1 U	1 U
MW-22	MW-22~DUP	10/03/11	Duplicate	2.6	**5.4**	1 U	1 U
MW-22	MW-22	12/15/11		1.4	**6.3**	1.5	**2.6**
MW-22	MW-22	07/06/12		1.6	**10**	1.3	**4.4**
MW-22	MW-22	11/29/12		1	**21.2**	2.3	**6.5**
MW-22	MW-22	06/03/13		0.7 J	4.5	1 U	0.69 J
MW-22	MW-22	12/23/13		1 U	1 U	1 U	1 U
MW-22	MW-22	05/27/14		1 U	**13.7**	1.5	**5.8**
MW-22	MW-22	12/23/14		1 U	**17.4**	0.9 J	**2.9**
MW-22	MW-22	06/26/15		0.31 J	**22.2**	3.2 J	**5.5**
MW-22	MW-22	12/10/15		1 U	**31.9**	1.1	**3.1**
MW-22	MW-22	08/31/16		1 U	**38.2**	1.6	**5.2**
MW-22	MW-22	08/23/17		0.48 J	**26.6**	1.3	**3.6**
MW-22	MW-22	04/28/20		1 U	**22.6**	1.0	**3.8**
MW-22	MW-22	07/20/21		1.0 U	**37.2**	1.1	**5.6**
MW-22	MW-22	10/19/22		1.0 U	**29.3**	1.1	**5.8**
MW-22	MW-22	03/28/24		0.36 J	**18**	0.94 J	**11 J**

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
MW-31	MW-31	11/30/01		**48**	**99**	**8.2**	1 U
MW-31	MW-31	07/18/02		**34**	**96**	**7**	1 U
MW-31	MW-31	12/21/02		**40**	**120 D**	**7.7**	1 U
MW-31	MW-31	06/28/03		**32**	**92**	**7.8**	2 U
MW-31	MW-31	12/19/03		**33**	**91**	**6**	1 U
MW-31	MW-31	06/11/04		**28**	**93 D**	**5.5**	1 U
MW-31	MW-31	12/01/05		**48**	**99**	**8.2**	1 U
MW-31	MW-31	07/19/06		**34**	**96**	**7**	1 U
MW-31	MW-31	12/22/06		**40**	**120 D**	**7.7**	1 U
MW-31	MW-31	06/29/07		**32**	**92**	**7.8**	2 U
MW-31	MW-31	12/20/07		**33**	**91**	**6**	1 U
MW-31	MW-31	06/12/08		**28**	**93 D**	**5.5**	1 U
MW-31	MW-31	12/29/08		**10**	**40**	1.1	1 U
MW-31	MW-31	06/16/09		**24**	**89**	**5.1**	1 U
MW-31	MW-31	01/07/10		**18.7**	**104**	1 UJ	1 U
MW-31	MW-31	03/31/10		3	**30**	1.3	1 U
MW-31	MW-31	07/01/10		**6.2**	**108**	**11.1**	1 U
MW-31	MW-31	09/21/10		4.6	**99.4**	4.4	1.2
MW-31	MW-31	12/16/10		1.5	**43.4**	2	1 U
MW-31	MW-31	03/28/11		1 U	**5.2**	1 U	1 U
MW-31	MW-31	06/20/11		2.4 J	**76.8 J**	4 J	1.8 J
MW-31	MW-31	10/03/11		1.9	**40.3**	2.1	**2.2**
MW-31	MW-31	12/15/11		1.3	**96.1**	3.9	**3.2**
MW-31	MW-31	07/06/12		4.5	**74.3**	3.7	1 U
MW-31	MW-31	11/29/12		2.5	**88.6**	3.8	**2.2**
MW-31	MW-31	06/03/13		2.1	**81.2**	2.7	0.78 J
MW-31	MW-31	12/23/13		1 U	**41.8**	1 U	1 U
MW-31	MW-31	05/27/14		1.5	**54.9**	2.3	**2.4**
MW-31	MW-31	12/23/14		0.81 J	**56.8**	1.8	1.2
MW-31	MW-31	06/26/15		1.4	**43**	4.5 J	0.91 J
MW-31	MW-31	12/10/15		1	**66.6**	1.6	1.5
MW-31	MW-31	08/31/16		1.2	**60.1**	2.6	1 U
MW-31	MW-31	08/23/17		2.3	**62.0**	2.7	0.86 J
MW-31	MW-31	04/17/18		1.4	**13.4**	0.41 J	1.2
MW-31	MW-31	04/17/19		1.7	**37.9**	0.92 J	1 U
MW-31	MW-31	04/28/20		0.74 J	**9.2**	1 U	1 U
MW-31	MW-31	07/20/21		1.5	**60.6**	1.6	1.0 U
MW-31	MW-31	10/19/22		3.2	**35.4**	0.73 J	1.0 U
MW-31	MW-31	03/28/24		1.6	**12**	2.5 U	1.0 UJ

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
MW-32	MW-32	11/30/01		**75**	**91**	**5.7**	1 U
MW-32	MW-32	07/19/02		**80**	**91**	**6.7**	1 U
MW-32	MW-32 (DUP)	07/19/02	Duplicate	**74**	**86**	**6**	1 U
MW-32	MW-32	12/21/02		**71**	**84**	**5.7**	1 U
MW-32	MW-32	06/28/03		**68**	**80**	**6.1**	1 U
MW-32	MW-32	12/19/03		**11**	**7.9**	1 U	1 U
MW-32	MW-32	06/11/04		**65**	**89**	**5.8**	1 U
MW-32	MW-32	12/01/05		**75**	**91**	**5.7**	1 U
MW-32	MW-32	07/20/06		**80**	**91**	**6.7**	1 U
MW-32	MW-32~DUP	07/20/06	Duplicate	**74**	**86**	**6**	1 U
MW-32	MW-32	12/22/06		**71**	**84**	**5.7**	1 U
MW-32	MW-32	06/29/07		**68**	**80**	**6.1**	1 U
MW-32	MW-32	12/20/07		**11**	**7.9**	1 U	1 U
MW-32	MW-32	06/12/08		**65**	**89**	**5.8**	1 U
MW-32	MW-32	12/29/08		3.5	2.5	1 U	1 U
MW-32	MW-32	06/16/09		**57**	**69**	4.6	1 U
MW-32	MW-32	01/07/10		**6.9**	**99**	1 UJ	1.8
MW-32	MW-32	03/31/10		2.1	**30.2**	1 U	1 U
MW-32	MW-32	07/01/10		1 U	**136**	**10.3**	**3.4**
MW-32	MW-32	09/21/10		1 U	**13.1**	4	**14**
MW-32	MW-32~DUP	09/21/10	Duplicate	1 U	**12.7**	4.1	**13.7**
MW-32	MW-32	12/17/10		1 U	2.8	1.9	**2.4**
MW-32	MW-32	03/28/11		1 U	1 U	1.5	1 U
MW-32	MW-32	06/20/11		**9.5 J**	**38.8 J**	3.4 J	**12.1 J**
MW-32	MW-32	10/03/11		1 U	2.3	1 U	1 U
MW-32	MW-32	12/15/11		1.6	**46**	3.3	**13.7**
MW-32	MW-32	07/06/12		1	**79.9**	3.4	**11.7**
MW-32	MW-32	11/29/12		1 U	**67.3**	2.9	**13.4**
MW-32	MW-32	06/03/13		1 U	**32.4**	1.1	**4.7**
MW-32	MW-32	12/23/13		1 U	**12**	1 U	1.5
MW-32	MW-32~DUP	12/23/13	Duplicate	0.51 J	**38.4**	1.5	**14.4**
MW-32	MW-32	12/23/14		1 U	**7.8**	1 U	1 U
MW-32	MW-32	06/26/15		0.75 J	**55.6**	**5.2 J**	**7.5**
MW-32	MW-32	12/10/15		1 U	**82.8**	1.6	**8.9**
MW-32	MW-32	08/31/16		1 U	**79.3**	2.1	**7.1**
MW-32	MW-32	08/23/17		1 U	**67.7**	1.6	**5.6**
MW-32	MW-32	04/28/20		1 U	**19.9**	1 U	**3.3**
MW-32	MW-32	07/20/21		1.0 U	**66.8**	1.1	**7**
MW-32	MW-32	10/19/22		1.0 U	**43.7**	0.88 J	**6.4**
MW-32	MW-32	03/28/24		0.50 U	**8.9**	2.5 U	**5.3 J**

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
MW-34	MW-34	11/30/01		**16**	**110 D**	0.67 J	**63**
MW-34	MW-34	07/19/02		**12**	**51**	1 U	**16**
MW-34	MW-34	12/21/02		**8.3**	**84**	0.7 J	**40**
MW-34	MW-34(DUP)	12/21/02	Duplicate	**9.9**	**81**	0.76 J	**42**
MW-34	MW-34	06/28/03		**7.9**	**98**	0.79 J	**34**
MW-34	MW-34(DUP)	06/28/03	Duplicate	**7.5**	**98**	0.72 J	**32**
MW-34	MW-34	12/19/03		**7.8**	**100 D**	0.59 J	**55**
MW-34	MW-34	06/11/04		**7**	**140 D**	0.97 J	**78**
MW-34	MW-34(DUP)	06/11/04	Duplicate	**6.5**	**160 D**	0.96 J	**69**
MW-34	MW-34	12/01/05		**16**	**110 D**	0.67 J	**63**
MW-34	MW-34	07/20/06		**12**	**51**	1 U	**16**
MW-34	MW-34	12/22/06		**8.3**	**84**	0.7 J	**40**
MW-34	MW-34~DUP	12/22/06	Duplicate	**9.9**	**81**	0.76 J	**42**
MW-34	MW-34	06/29/07		**7.9**	**98**	0.79 J	**34**
MW-34	MW-34~DUP	06/29/07	Duplicate	**7.5**	**98**	0.72 J	**32**
MW-34	MW-34	12/20/07		**7.8**	**100 D**	0.59 J	**55**
MW-34	MW-34	06/12/08		**7**	**140 D**	0.97 J	**78**
MW-34	MW-34~DUP	06/12/08	Duplicate	**6.5**	**160 D**	0.96 J	**69**
MW-34	MW-34	12/29/08		**11**	**41**	1 U	**8.8**
MW-34	MW-34	06/16/09		**7.3**	**100 D**	0.7 J	**52**
MW-34	MW-34	01/07/10		1 U	**13.3**	1 UJ	**16.1**
MW-34	MW-34	03/31/10		1 U	1.9	1 U	1.1
MW-34	MW-34~DUP	03/31/10	Duplicate	1 U	1.8	1 U	1.2
MW-34	MW-34	07/01/10		1 U	1.1	**7.2**	1 U
MW-34	MW-34	09/21/10		1 U	1.2	1 U	1 U
MW-34	MW-34	12/17/10		1 U	1 U	1 U	1 U
MW-34	MW-34	03/28/11		1 U	1 U	1 U	1 U
MW-34	MW-34	06/20/11		1 U	1 U	1 U	**3.2 J**
MW-34	MW-34	10/03/11		1 U	1 U	1 U	1 U
MW-34	MW-34	12/15/11		1 U	1 U	1 U	1 U
MW-34	MW-34~DUP	12/15/11	Duplicate	1 U	1 U	1 U	1 U
MW-34	MW-34	07/06/12		1 U	1 U	1 U	**2.6**
MW-34	MW-34	11/29/12		1 U	1 U	1 U	1 U
MW-34	MW-34	06/04/13		0.64 J	1 U	1 U	1 U
MW-34	MW-34	12/23/13		1 U	1 U	1 U	1 U
MW-34	MW-34	05/27/14		1 U	1 U	1 U	**3.1**
MW-34	MW-34	12/23/14		1 U	1 U	1 U	1 U
MW-34	MW-34	06/26/15		1 U	1 U	1 UJ	1 U
MW-34	MW-34	12/10/15		1 U	1 U	1 U	1 U
MW-34	MW-34~DUP	12/10/15	Duplicate	1 U	1 U	1 U	1 U
MW-34	MW-34	08/31/16		1 U	0.52 J	1 U	1.3
MW-34	MW-34	08/23/17		1 U	1 U	1 U	0.98 J
MW-34	MW-34	04/28/20		1 U	1 U	1 U	1 U
MW-34	MW-34	07/20/21		1.0 U	1.0 U	1.0 U	1.0 U
MW-34	MW-34	10/19/22		1.0 U	0.67 J	1.0 U	0.63 J
MW-34	MW-34	10/19/22	Duplicate	1.0 U	1.0 U	1.0 U	0.72 J
MW-34	MW-34	03/28/24		0.50 U	2.5 U	2.5 U	0.53 J

Table 4

Historical Analytical Summary
Former General Instrument Corporation Site
Sherburne, New York

				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride
			Class GA TOGS 1.1.1 (µg/L)	5	5	5	2
Sample Location:	**Sample ID:**	**Sample Date:**	**Sample Type**				
P-8	P-8	06/01/00		**320**	**830**	25 U	**25**
P-8	P-8	11/01/00		**260**	**730**	25 U	**27**
P-8	P-8	05/31/01		**230**	**700**	25 U	**37**
P-8	P-8	11/30/01		**680**	**1400**	25 U	**16 J**
P-8	P-8	06/17/02		**190**	--	--	**95**
P-8	P-8	07/20/02		**260 D**	**840 D**	4.8	**210 D**
P-8	P-8	12/21/02		**860**	**1700 D**	10 U	**5.0 J**
P-8	P-8	06/28/03		**210**	**900**	**6.6 J**	**9.3 J**
P-8	P-8	12/19/03		**460**	**1400**	20 U	20 U
P-8	P-8	06/02/04		**320**	**830**	25 U	**25**
P-8	P-8	06/11/04		**260**	**1200**	20 U	20 U
P-8	P-8	11/02/04		**260**	**730**	25 U	**27**
P-8	P-8	06/01/05		**230**	**700**	25 U	**37**
P-8	P-8	12/01/05		**680**	**1400**	25 U	**16 J**
P-8	P-8	07/21/06		**260 D**	**840 D**	4.8	**210 D**
P-8	P-8	12/22/06		**860**	**1700 D**	10 U	**5 J**
P-8	P-8	06/29/07		**210**	**900**	**6.6 J**	**9.3 J**
P-8	P-8	12/20/07		**460**	**1400**	20 U	20 U
P-8	P-8	04/30/08		--	--	--	--
P-8	P-8	05/01/08		**280**	**600**	1.0 U	**28**
P-8	P-8	06/12/08		**260**	**1200**	20 U	20 U
P-8	P-8	12/29/08		**220**	**360**	2.6 J	5 U
P-8	P-8	06/16/09		**200 D**	**600 D**	**6.4**	**4.9**
P-8	P-8	01/07/10		**259**	**224**	1.5	1.8
P-8	P-8	03/31/10		**359**	**75.3**	1 U	1.8
P-8	P-8	07/01/10		**318**	**381**	**7.3**	**8.2**
P-8	P-8	09/21/10		**8.3**	**572**	2.5	**49.3**
P-8	P-8	12/17/10		**284**	**1010**	3.9	**50.9**
P-8	P-8	03/28/11		**211**	**774**	2.6	**40.4**
P-8	P-8	06/20/11		**38.7 J**	**901 J**	4 J	**52.8 J**
P-8	P-8	10/03/11		**84.6**	**776**	3.5	**37**
P-8	P-8	12/15/11		**386**	**1430**	**6.5**	**31.6**
P-8	P-8	07/06/12		3.4	**1310**	**5.2**	**66**
P-8	P-8	11/29/12		**15.4**	**536**	1.2	**87.8**
P-8	P-8~DUP	11/29/12	Duplicate	**15.1**	**524**	1.1	**87.6**
P-8	P-8	06/03/13		**279**	**205**	1 U	**3**
P-8	P-8	12/23/13		**193**	**202**	1 U	0.93 J
P-8	P-8	05/27/14		**380**	**390**	0.82 J	**4.3**
P-8	P-8	09/30/14		1 U	**72**	2.7	**114**
P-8	P-8	12/22/14		**55.8**	**1340**	3.9	**116**
P-8	P-8	03/19/15		**217**	**1760**	**11.5**	**94.9**
P-8	P-8~DUP	03/19/15	Duplicate	**231**	**1810**	3.1	**111**
P-8	P-8	06/25/15		4.2 J	**791 J**	**106 J**	**111**
P-8	P-8~DUP	06/25/15	Duplicate	**5.2**	**1040 J**	**54 J**	**151**
P-8	P-8	12/10/15		**5.5**	**699**	4	**369**
P-8	P-8	04/27/16		**14.2**	**1550**	2.9	**179**
P-8	P-8~DUP	04/27/16	Duplicate	**13.5**	**1510**	2.9	**171**
P-8	P-8	08/31/16		0.76 J	**380**	1.3	**119**
P-8	P-8~DUP	08/31/16	Duplicate	0.86 J	**393**	1.5	**120**
P-8	P-8	12/20/16		**17.1**	**996**	3 J	**143**
P-8	P-8~DUP	12/20/16	Duplicate	**17.2**	**984**	2.4	**137**
P-8	P-8	04/19/17		2.3 J	**692 J**	5 U	**161**
P-8	P-8~DUP	04/19/17	Duplicate	2.4 J	**698**	5 U	**167**
P-8	P-8	08/23/17		0.83 J	**379**	1.4	**95.4 J**
P-8	P-8	12/08/17		0.56 J	**286**	0.9 J	**64.8**
P-8	P-8~DUP	12/08/17	Duplicate	0.44 J	**254**	0.91 J	**74.3**
P-8	P-8	04/17/18		3.3	**98.4**	0.7 J	**75.1**
P-8	P-8~DUP	04/17/18	Duplicate	3.4	**98.3**	0.67 J	**75.0**
P-8	P-8	04/17/19		1 U	**118**	0.71 J	**66.3**
P-8	P-8	04/28/20		1 U	**19.8**	1 U	**12.3**
P-8	P-8	07/20/21		1.0 U	2.2	1.0 U	**6.0**
P-8	P-8	10/19/22		1.0 U	1.0 U	1.0 U	1.0 U
P-8	P-8	03/28/24		0.50 U	2.5 U	2.5 U	0.48 J

Notes:

µg/L = micrograms per liter

U = compound not detected at or above the laboratory reporting limit

J = estimated result

TOGS Class GA are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1) , dated June 1998, and subsequent addenda

Values consisting of red and bold text exceed the TOGS Class GA groundwater standard for that analyte.

Appendices

Appendix A

Field Documentation

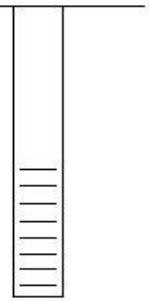
Monitoring Well Record for Low-Flow Purging

Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 3/27/2024
Personnel: Brian Pickert, Sarah King

Monitoring Well Data:

Well No.: P-8
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft): 15.18
Depth of Sediment (ft):
Height of Water Column, L (ft): 9.89
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 1.61 gallons
Initial Depth to Water (ft): 5.29



Time		Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
				Precision Required:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0		<500	–	–	10.01	0.712	>1000	3.29	7.26	-119		
5		<500	5.01	–	2.86	0.680	714	2.86	7.17	-106		
10		<500	-	–	1.89	0.726	427	1.89	7.01	-113		
15		<500	5.19	0.18	1.20	0.752	320	1.20	6.97	-116		
20		<500	–	–	1.11	0.759	90	1.11	6.95	-119		
25		<500	5.26	0.25	1.07	0.763	75	1.07	6.94	-119	~15	

Notes: Add new tubing to wells. Water line is 3/8" tubing. Air line is 1/4" tubing.

Sample @ P-8 (1245) 14SMSD x9 VOC's

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

Water was cloudy, black initially ended clear.

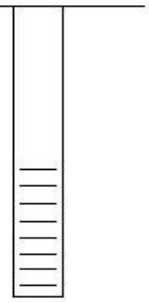
Monitoring Well Record for Low-Flow Purging

Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 3/27/2024
Personnel: Brian Pickert, Sarah Ihing

Monitoring Well Data:

Well No.: MW-17
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft): 17.62
Depth of Sediment (ft):
Height of Water Column, L (ft): 12.81
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 2.09 gallons
Initial Depth to Water (ft): 4.81



Time		Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
		Precision Required:			±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0		<500	4.91	—	9.12	0.372	118	3.52	7.04	-66		
5		<500	—	—	9.03	0.366	128	9.22	7.01	-69		
10		<500	4.91	0	8.71	0.360	119	8.11	7.00	-65		
15		<500	—	—	8.78	0.362	90	7.07	6.96	-64		
20		<500	4.91	0	8.90	0.363	98	7.01	6.95	-63		
25		<500	—	—	8.90	0.361	101	7.09	6.94	-61	~13	

Notes: Add new tubing to wells. Water line is 3/8" tubing. Air line is 1/4" tubing.

Sample: MW-17A (1325)
MW-17B (1330) - Dup x6 VOCs

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

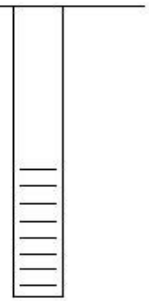
Monitoring Well Record for Low-Flow Purging

Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 3/28/2024
Personnel: Brian Pickert, Sarah Hing

Monitoring Well Data:

Well No.: MW-34
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft): 14.55
Depth of Sediment (ft):
Height of Water Column, L (ft): 11.61
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 1.89 gallons
Initial Depth to Water (ft): 2.94



Time		Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
		Precision Required:			±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0		<500	3.07	—	8.62	0.721	232	0.75	6.85	-94		
5		<500	3.07	Ø	8.77	0.757	138	0.12	6.90	-109		
10		<500	3.07	Ø	8.83	0.791	93.7	0.0	6.94	-118		
15		<500	—	—	8.82	0.805	71.3	0.02	6.99	-119		
20		<500	3.07	Ø	8.90	0.826	42.8	0.00	7.03	-122		

Notes: Add new tubing to wells. Water line is 3/8" tubing. Air line is 1/4" tubing.

Sample MW-34 (13:35) x3 VOC's

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

Monitoring Well Record for Low-Flow Purging

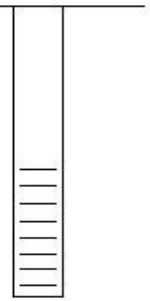
Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 7/28/2024
Personnel: Sarah King

Monitoring Well Data:

Well No.: MW-32
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft): 14.32

Height of Water Column, L (ft): 11.22
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 1.83 gallons
Initial Depth to Water (ft): 3.10



Time		Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
				Precision Required:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0		<500	3.28	—	7.23	0.489	>1000	3.6	7.34	102		
5		<500	3.28	0	7.39	0.496	>1000	2.92	6.99	21		
10		<500	—	—	7.51	0.535	146	2.39	6.83	31		
15		<500	3.28	0	7.57	0.539	79.8	2.22	6.81	34		
20		<500	—	—	7.61	0.573	58.9	2.04	6.80	37		
25		<500	3.28	0	7.58	0.585	54.0	1.92	6.81	40		
30		<500	3.28	0	7.59	0.590	53.6	1.88	6.82	42		

Notes: Add new tubing to wells. Water line is 3/8" tubing. Air line is 1/4" tubing.

Sample MW-32 (17:00) x3 VOC's

3.5 gallons purged.

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

Monitoring Well Record for Low-Flow Purging

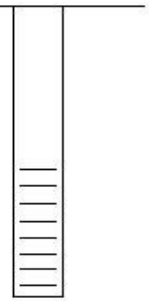
Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 3/28/2024
Personnel: Sarah King

Monitoring Well Data:

Well No.: MW-31
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft): 19.55
Depth of Sediment (ft):

Height of Water Column, L (ft): 15.0
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 2.45 gallons
Initial Depth to Water (ft): 4.55



Time		Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
				Precision Required:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0		<500	4.42	—	9.74	0.558	342	3.88	7.29	67		
5		<500	4.54	0.12	9.53	0.544	110	3.07	7.14	147		
10		<500	—	—	9.55	0.541	67.4	2.60	7.08	168		
15		<500	4.45	0.03	9.55	0.535	41.4	2.23	7.04	189		
20		<500	—	—	9.43	0.529	22.7	2.20	7.01	203		
25		<500	4.75	0.33	9.33	0.524	17.9	2.23	7.01	210		

Notes:
Add new tubing to wells.
Water line is 3/8" tubing
Air line is 1/4" tubing

Sample MW-31 (15:00) x3 VOA's
4 gallons purged

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

Monitoring Well Record for Low-Flow Purging

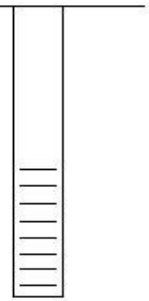
Project Data:

Project Name: Vishay - Former GIC - Sherburne
Ref. No.: 12595756
Date: 3/28/2024
Personnel: Sarah King

Monitoring Well Data:

Well No.: MW-22
Vapor PID (ppm):
Measurement Point: Top of Riser
Constructed Well Depth (ft):
Measured Well Depth (ft): 17.85
Depth of Sediment (ft):

Height of Water Column, L (ft): 12.04
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Volume, V (L)[2]: 1.96
Initial Depth to Water (ft): 5.81



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Total Volume Purged, Vp (L)	No. of Well Volumes Purged[4]
Precision Required:				**±3 %**	**±0.005 or 0.01[5]**	**±10 %**	**±10 %**	**±0.1 Units**	**±10 mV**		
0	<500	5.52	–	8.38	0.789	>1000	3.37	7.21	-82		
5	<500	5.52	0	9.46	0.829	696	11.82	7.20	-81		
10	<500	"	"	9.63	0.836	200	3.41	7.25	-84		
15	<500	5.52	0	9.74	0.854	156	2.24	7.28	-87		
20	<500	"	"	9.83	0.834	143	1.37	7.28	-90		
25	<500	5.52	0	9.92	0.833	105	1.62	7.28	-89		

Notes: Add new tubing to wells. Water line is 3/8" tubing. Air line is 1/4" tubing.

Sample MW-22 (15:55)

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom

(2) The well volume will be based on the height of the water column (L). For Imperial units, $V=\pi*((D/2)^2)*L*28.3168$, where V is given in L and r and L in inches.

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 5 well volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Volumes Purged= Vp/V.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm

N/A Not available or not applicable to this application

4 gallons purged.

Appendix B

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L2417418
Client:	GHD, Inc. 5788 Widewaters Pkwy Syracuse, NY 13214
ATTN:	Ian McNamara
Phone:	(315) 802-0312
Project Name:	VISHAY - SHERBURNE
Project Number:	12595756
Report Date:	04/05/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: VISHAY - SHERBURNE
Project Number: 12595756

Lab Number: L2417418
Report Date: 04/05/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2417418-01	MW-17A	WATER	SHERBURNE, NY	03/28/24 13:30	03/29/24
L2417418-02	MW-22	WATER	SHERBURNE, NY	03/28/24 15:55	03/29/24
L2417418-03	MW-31	WATER	SHERBURNE, NY	03/28/24 15:00	03/29/24
L2417418-04	MW-32	WATER	SHERBURNE, NY	03/28/24 17:00	03/29/24
L2417418-05	MW-34	WATER	SHERBURNE, NY	03/28/24 13:35	03/29/24
L2417418-06	P-8	WATER	SHERBURNE, NY	03/28/24 12:45	03/29/24
L2417418-07	TB-GW	WATER	SHERBURNE, NY	03/28/24 00:00	03/29/24
L2417418-08	MW-17B	WATER	SHERBURNE, NY	03/28/24 13:30	03/29/24

Project Name:	VISHAY - SHERBURNE	**Lab Number:**	L2417418
Project Number:	12595756	**Report Date:**	04/05/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: VISHAY - SHERBURNE
Project Number: 12595756
Lab Number: L2417418
Report Date: 04/05/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2417418-01: The sample identified as "MW-17" on the chain of custody was identified as "MW-17A" on the container label. At the client's request, the sample is reported as "MW-17A".

L2417418-08: A sample identified as "MW-17B" was received, but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 04/05/24

ORGANICS

VOLATILES

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-01
Client ID: MW-17A
Sample Location: SHERBURNE, NY

Date Collected: 03/28/24 13:30
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 01:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.12	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Project Number: 12595756
Lab Number: L2417418
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-01
Client ID: MW-17A
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 13:30
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-02
Client ID: MW-22
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 15:55
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 02:21
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	11		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.94	J	ug/l	2.5	0.70	1
Trichloroethene	0.36	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-02
Client ID: MW-22
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 15:55
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	18		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-03
Client ID: MW-31
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 15:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 02:45
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-03
Client ID: MW-31
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 15:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	12		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-04
Client ID: MW-32
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 17:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 03:08
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	5.3		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-04
Client ID: MW-32
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 17:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	8.9		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-05
Client ID: MW-34
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 13:35
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 03:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.53	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-05
Client ID: MW-34
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 13:35
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-06
Client ID: P-8
Sample Location: SHERBURNE, NY

Date Collected: 03/28/24 12:45
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 03:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.48	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-06
Client ID: P-8
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 12:45
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.46	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-07
Client ID: TB-GW
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 00:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 04:18
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-07
Client ID: TB-GW
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 00:00
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-08
Client ID: MW-17B
Sample Location: SHERBURNE, NY

Date Collected: 03/28/24 13:30
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 04/04/24 04:42
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.16	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: VISHAY - SHERBURNE
Lab Number: L2417418
Project Number: 12595756
Report Date: 04/05/24

SAMPLE RESULTS

Lab ID: L2417418-08
Client ID: MW-17B
Sample Location: SHERBURNE, NY
Date Collected: 03/28/24 13:30
Date Received: 03/29/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: VISHAY - SHERBURNE
Project Number: 12595756
Lab Number: L2417418
Report Date: 04/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/03/24 21:41
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1904883-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: VISHAY - SHERBURNE
Project Number: 12595756
Lab Number: L2417418
Report Date: 04/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/03/24 21:41
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1904883-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: VISHAY - SHERBURNE
Project Number: 12595756
Lab Number: L2417418
Report Date: 04/05/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 04/03/24 21:41
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1904883-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1904883-3 WG1904883-4								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	98		96		63-130	2		20
1,1,2-Trichloroethane	100		99		70-130	1		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	96		94		70-130	2		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
Bromoform	90		90		54-136	0		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		100		70-130	10		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	120		110		64-130	9		20
Bromomethane	98		92		39-139	6		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1904883-3 WG1904883-4								
Chloroethane	130		120		55-138	8		20
1,1-Dichloroethene	120		110		61-145	9		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	97		96		63-130	1		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	140		140		36-147	0		20
Acetone	93		92		58-148	1		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	94		94		63-138	0		20
4-Methyl-2-pentanone	94		94		59-130	0		20
2-Hexanone	91		93		57-130	2		20
Bromochloromethane	110		100		70-130	10		20
1,2-Dibromoethane	98		99		70-130	1		20
1,2-Dibromo-3-chloropropane	88		89		41-144	1		20
Isopropylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	80		79		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1904883-3 WG1904883-4								
1,2,4-Trichlorobenzene	85		85		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Cyclohexane	120		110		70-130	9		20
1,4-Dioxane	88		82		56-162	7		20
Freon-113	120		110		70-130	9		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1904883-6 WG1904883-7 QC Sample: L2417418-06 Client ID: P-8												
Methylene chloride	ND	10	10	100		10	100		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	11	110		11	110		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	9.4	94		9.5	95		63-130	1		20
1,1,2-Trichloroethane	ND	10	9.8	98		9.9	99		70-130	1		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	10	100		10	100		75-130	0		20
Trichlorofluoromethane	ND	10	12	120		11	110		62-150	9		20
1,2-Dichloroethane	ND	10	10	100		11	110		70-130	10		20
1,1,1-Trichloroethane	ND	10	12	120		12	120		67-130	0		20
Bromodichloromethane	ND	10	10	100		11	110		67-130	10		20
trans-1,3-Dichloropropene	ND	10	8.7	87		8.6	86		70-130	1		20
cis-1,3-Dichloropropene	ND	10	9.2	92		9.4	94		70-130	2		20
Bromoform	ND	10	8.6	86		8.6	86		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		9.8	98		67-130	2		20
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	11	110		10	100		70-130	10		20
Ethylbenzene	ND	10	10	100		10	100		70-130	0		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	7.5	75		7.9	79		39-139	5		20
Vinyl chloride	0.48J	10	13	130		13	130		55-140	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1904883-6 WG1904883-7 QC Sample: L2417418-06 Client ID: P-8												
Chloroethane	ND	10	14	**140**	Q	14	**140**	Q	55-138	0		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
trans-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Trichloroethene	ND	10	11	110		10	100		70-130	10		20
1,2-Dichlorobenzene	ND	10	9.9	99		9.7	97		70-130	2		20
1,3-Dichlorobenzene	ND	10	9.8	98		9.6	96		70-130	2		20
1,4-Dichlorobenzene	ND	10	10	100		9.7	97		70-130	3		20
Methyl tert butyl ether	ND	10	9.3	93		9.3	93		63-130	0		20
p/m-Xylene	ND	20	21	105		20	100		70-130	5		20
o-Xylene	ND	20	20	100		20	100		70-130	0		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Styrene	ND	20	20	100		20	100		70-130	0		20
Dichlorodifluoromethane	ND	10	14	140		14	140		36-147	0		20
Acetone	ND	10	7.8	78		8.1	81		58-148	4		20
Carbon disulfide	ND	10	12	120		11	110		51-130	9		20
2-Butanone	ND	10	8.7	87		9.0	90		63-138	3		20
4-Methyl-2-pentanone	ND	10	9.4	94		8.8	88		59-130	7		20
2-Hexanone	ND	10	8.4	84		8.5	85		57-130	1		20
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
1,2-Dibromoethane	ND	10	9.4	94		9.6	96		70-130	2		20
1,2-Dibromo-3-chloropropane	ND	10	8.6	86		8.8	88		41-144	2		20
Isopropylbenzene	ND	10	10	100		9.7	97		70-130	3		20
1,2,3-Trichlorobenzene	ND	10	7.2	72		7.6	76		70-130	5		20

Matrix Spike Analysis

Batch Quality Control

Project Name: VISHAY - SHERBURNE

Project Number: 12595756

Lab Number: L2417418

Report Date: 04/05/24

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1904883-6 WG1904883-7 QC Sample: L2417418-06 Client ID: P-8												
1,2,4-Trichlorobenzene	ND	10	7.6	76		8.1	81		70-130	6		20
Methyl Acetate	ND	10	9.6	96		11	110		70-130	14		20
Cyclohexane	0.46J	10	12	120		11	110		70-130	9		20
1,4-Dioxane	ND	500	410	82		400	80		56-162	2		20
Freon-113	ND	10	12	120		11	110		70-130	9		20
Methyl cyclohexane	ND	10	11	110		11	110		70-130	0		20

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1,2-Dichloroethane-d4	105		106		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	102		101		70-130
Toluene-d8	99		99		70-130

Project Name: VISHAY - SHERBURNE
Project Number: 12595756

Lab Number: L2417418
Report Date: 04/05/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2417418-01A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-01B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-01C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-02A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-02B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-02C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-03A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-03B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-03C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-04A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-04B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-04C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-05A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-05B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-05C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06A1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06A2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06B1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06B2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-06C1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: VISHAY - SHERBURNE
Project Number: 12595756

Lab Number: L2417418
Report Date: 04/05/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2417418-06C2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-07A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-07B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-07C	Vial HCl preserved	A	NA		3.0	Y	Absent		-
L2417418-08A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-08B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)
L2417418-08C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	VISHAY - SHERBURNE	**Lab Number:**	L2417418
Project Number:	12595756	**Report Date:**	04/05/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	VISHAY - SHERBURNE	**Lab Number:**	L2417418
Project Number:	12595756	**Report Date:**	04/05/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	VISHAY - SHERBURNE	**Lab Number:**	L2417418
Project Number:	12595756	**Report Date:**	04/05/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	VISHAY - SHERBURNE	**Lab Number:**	L2417418
Project Number:	12595756	**Report Date:**	04/05/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/30/24

ALPHA Job #: L2417418

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: GHD INC.
Address: 5788 Widewaters Pkwy Syracuse, NY 13214
Phone:
Fax:
Email: ian.mcnamara@ghd.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Vishay - Sherburne
Project Location: Sherburne, NY
Project #: 12595756
Project Manager: Dan McNamara
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 337-000833

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: NYTCL-8260

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	Total # Bottles
17418-01	MW-17	3/28	13:30	GW	BKP		X
02	MW-22	3/28	15:55				X
03	MW-31	3/28	15:00				X
04	MW-32	3/28	17:00				X
05	MW-34	3/28	13:35				X
06	P-8	3/28	12:45				X
							*
07	TB-GW	3/28	-				X

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Sarah King	3/29/2024 9:00		3/29 16:00
	3/29 16:00		3/30/24 0100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Appendix C

Data Validation Report

Data Validation Report

June 25, 2024

To	Ian McNamara	**Project No.**	12595756
Copy to	Sarah King; Brian Pickert	**DVR No.**	
From	Christopher Arcuri	**Contact No.**	717.585.6408
Project Name	Vishay – Former GIC	**Email**	Christopher.Arcuri@ghd.com
Subject	Analytical Results and Full Validation 2024 Groundwater Monitoring Askin & Hooker–Former General Instrument Corporation Site Sherburne, New York March 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a validation of analytical results for groundwater samples collected in support of the Annual Groundwater Monitoring at the Sherburne, New York site during March 2024. Samples were submitted to Alpha Analytical located in Mansfield, Massachusetts. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples. The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the document entitled "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020.

2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check)

Prior to volatile organic compound (VOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of the specific tuning compound, bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

The tuning compound was analyzed at the required frequency throughout VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration

To quantify VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. All relative response factors (RRFs) must be greater than or equal to 0.050.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent or a minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves are used.

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Continuing Calibration

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

1. All RRF values must be greater than or equal to 0.050
2. Percent difference (%D) values must not exceed 20.0 percent

Calibration standards were analyzed at the required frequency, and most results met the above criteria for instrument sensitivity and stability. Table 4 presents the sample data that were qualified due to outlying continuing calibration recoveries.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch of 20 samples or less.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

7. Surrogate Spike Recoveries

Individual sample performance for VOC analysis in groundwater was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory-developed control limits provided in the analytical report.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria.

8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

1. The retention time of the IS must not vary more than ±10 seconds from the associated calibration standard.
2. IS area counts must not vary by more than a factor of two from the associated calibration standard.

All organic IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample Analyses

LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of one per analytical batch of 20 samples or less.

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

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

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision. Where one high

MS/MSD recovery was observed, the source sample was non-detect and no qualification of the data was deemed necessary.

11. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with the duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one time the RL value.

All field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision.

12. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

13. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

14. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Regards,

Christopher Arcuri
Data Intelligence – Data Validator

Table 1

Sample Collection and Analysis Summary
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameter: VOCs	Comments
L2417418	MW-17A	MW-17A	Groundwater	03/28/2024	13:30	X	
	MW-17B	MW-17B	Groundwater	03/28/2024	13:30	X	FD(MW-17A)
	MW-22	MW-22	Groundwater	03/28/2024	15:55	X	
	MW-31	MW-31	Groundwater	03/28/2024	15:00	X	
	MW-32	MW-32	Groundwater	03/28/2024	17:00	X	
	MW-34	MW-34	Groundwater	03/28/2024	13:35	X	
	P-8	P-8	Groundwater	03/28/2024	12:45	X	MS/MSD
	TB-GW	--	Water	03/28/2024	--	X	Trip Blank

Notes:

FD - Field Duplicate of sample in parenthesis
DUP - Laboratory Duplicate
MS/MSD - Matrix Spike/Matrix Spike Duplicate
VOCs - Volatile Organic Compounds
"--" - Not applicable

Table 2

Analytical Results Summary
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Location ID:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Name:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Date:		03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	µg/L	250 U	250 U	250 U	250 U	250 U	250 U	250 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	2.5 J	3.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 2

Analytical Results Summary
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Location ID:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Name:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Date:		03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds (Continued)								
Bromomethane (Methyl bromide)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chlorobromomethane	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	µg/L	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Chloroform (Trichloromethane)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane (Methyl chloride)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	µg/L	2.5 U	2.5 U	18	12	8.9	2.5 U	2.5 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	0.46 J
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropyl benzene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m&p-Xylenes	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl acetate	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert butyl ether (MTBE)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 2

Analytical Results Summary
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Location ID:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Name:		MW-17A	MW-17B	MW-22	MW-31	MW-32	MW-34	P-8
Sample Date:		03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024	03/28/2024
			Duplicate					
Parameters	**Unit**							
Volatile Organic Compounds (Continued)								
Tetrachloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	µg/L	2.5 U	2.5 U	0.94 J	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	0.50 U	0.50 U	0.36 J	1.6	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane (CFC-11)	µg/L	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	µg/L	0.12 J	0.16 J	11 J	1.0 UJ	5.3 J	0.53 J	0.48 J

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Not detected, associated reporting limit is estimated

Table 3

Analytical Methods
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260D	Water	14

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

Parameter	Calibration Date (mm/dd/yyyy)	Analyte	RRF	%D	Associated Sample ID	Qualified Result	Units
VOCs	04/03/2024	Chloroethane	0.184	30.5	MW-17A	2.5 UJ	µg/L
					MW-22	2.5 UJ	µg/L
					MW-31	2.5 UJ	µg/L
					MW-32	2.5 UJ	µg/L
					MW-34	2.5 UJ	µg/L
					P-8	2.5 UJ	µg/L
					MW-17B	2.5 UJ	µg/L
		Dichlorodifluoromethane (CFC-12)	0.287	39.3	MW-17A	5.0 UJ	µg/L
					MW-22	5.0 UJ	µg/L
					MW-31	5.0 UJ	µg/L
					MW-32	5.0 UJ	µg/L
					MW-34	5.0 UJ	µg/L
					P-8	5.0 UJ	µg/L
					MW-17B	5.0 UJ	µg/L

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
2024 Groundwater Monitoring
Former General Instrument Corporation Site
Sherburne, New York
March 2024

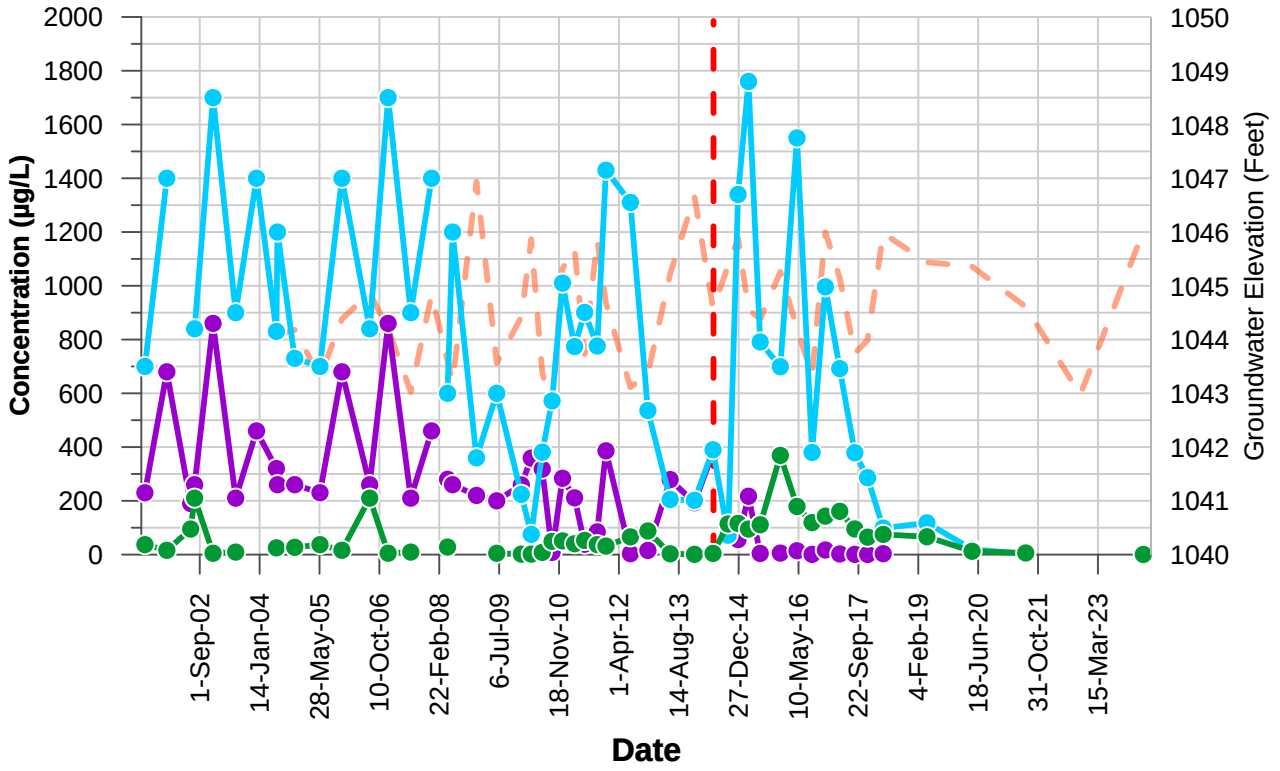
Parameter	Calibration Date (mm/dd/yyyy)	Analyte	RRF	%D	Associated Sample ID	Qualified Result	Units
VOCs	04/03/2024	Trichlorofluoromethane (CFC-11)	0.354	21.2	MW-17A	2.5 UJ	µg/L
					MW-22	2.5 UJ	µg/L
					MW-31	2.5 UJ	µg/L
					MW-32	2.5 UJ	µg/L
					MW-34	2.5 UJ	µg/L
					P-8	2.5 UJ	µg/L
					MW-17B	2.5 UJ	µg/L
		Vinyl chloride	0.284	24.6	MW-22	11 J	µg/L
					MW-31	1.0 UJ	µg/L
					MW-32	5.3 J	µg/L

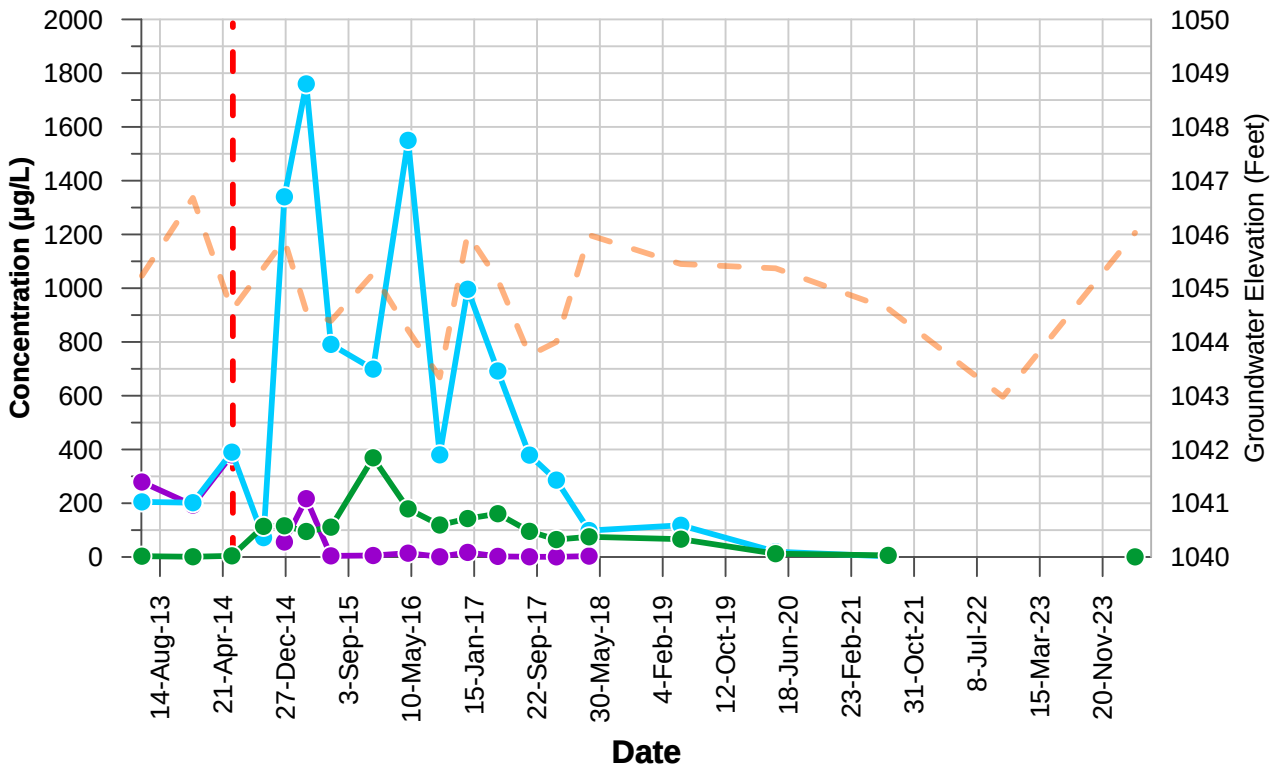
Notes:

%D - Percent difference
RRF - Relative Response Factor
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Appendix D

Time Series Plots





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
VC = Vinyl Chloride
3.) µg/L = microgram per Liter

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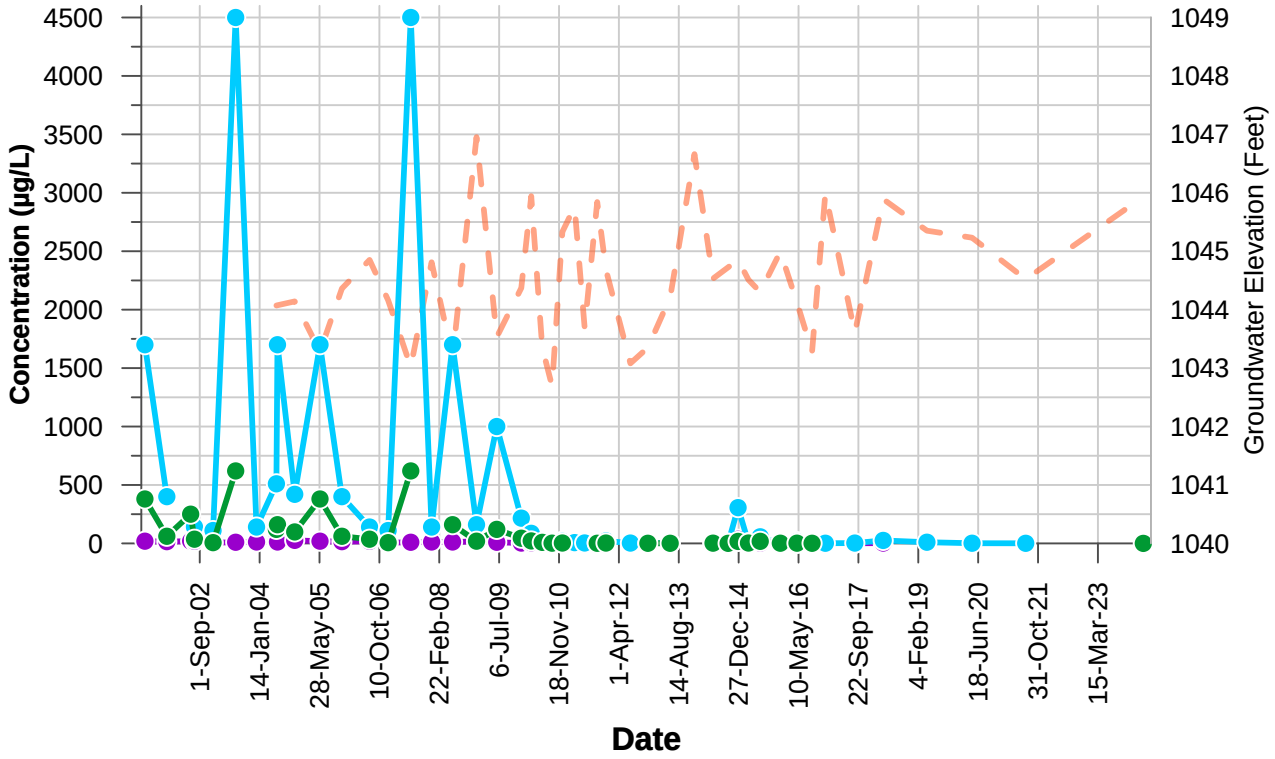
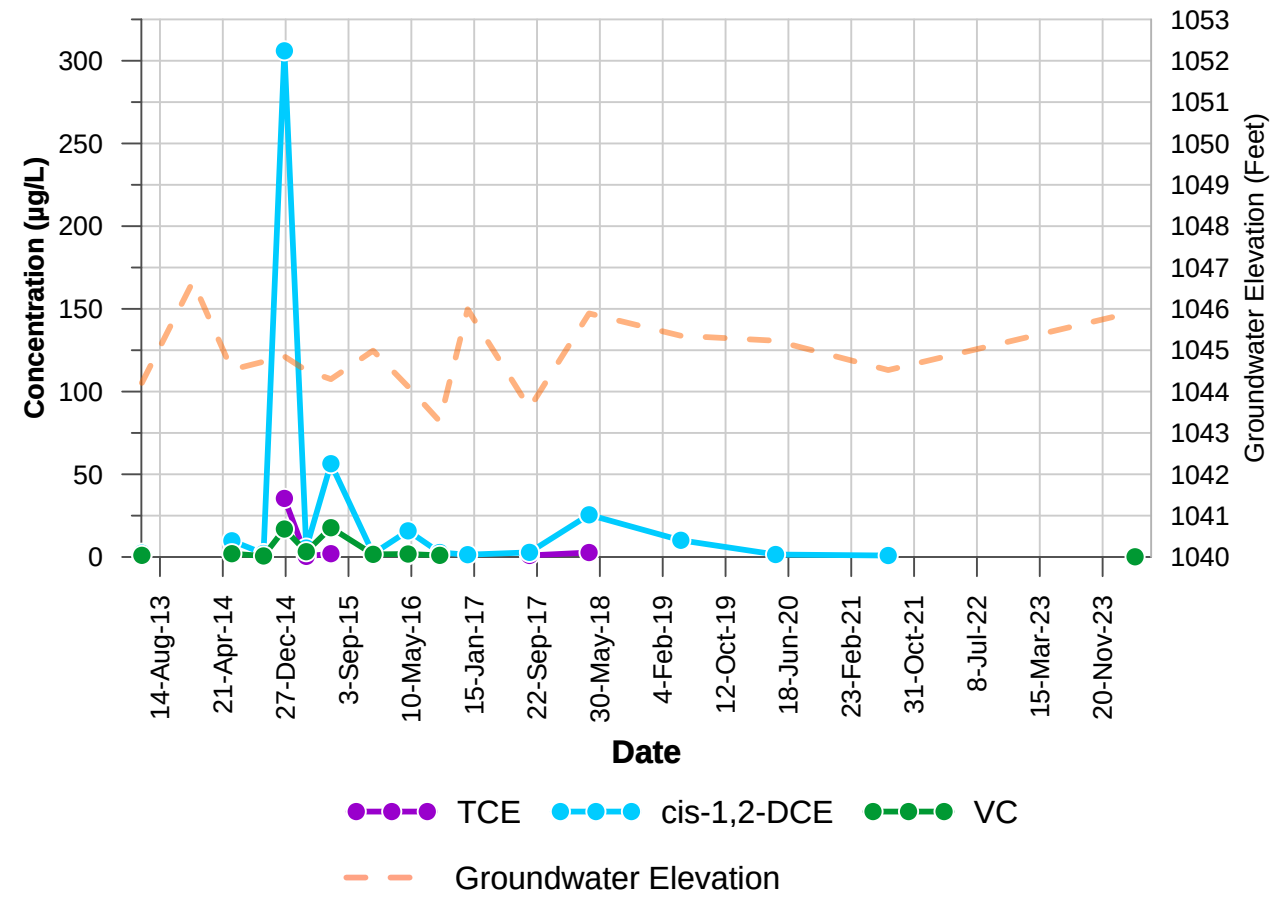
Project No. **12595756**
Date **May 31, 2024**

WELL P-8

Graph 1

Filename: G:\564\12595756\Tech\2024 Groundwater Report\P-8.gpj
Plot Date: June 17 2024 3:06 PM





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
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WELL MW-17

Graph 2

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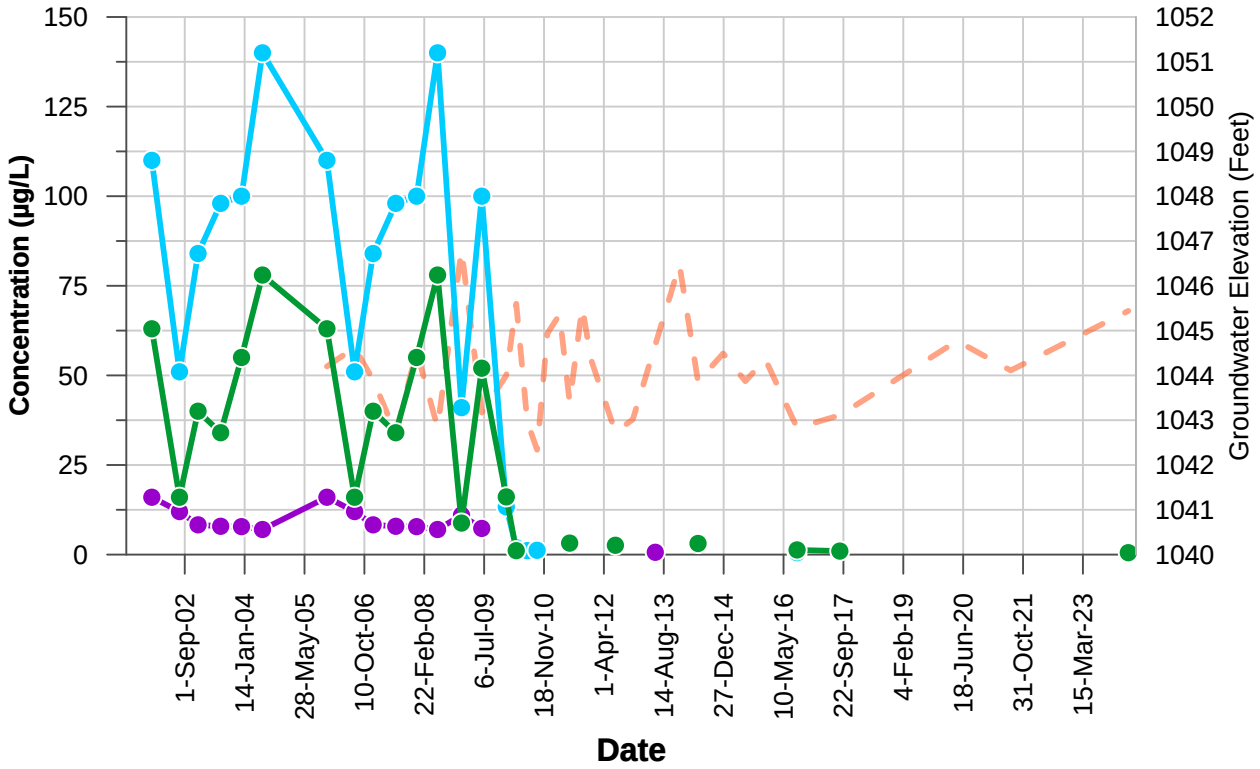
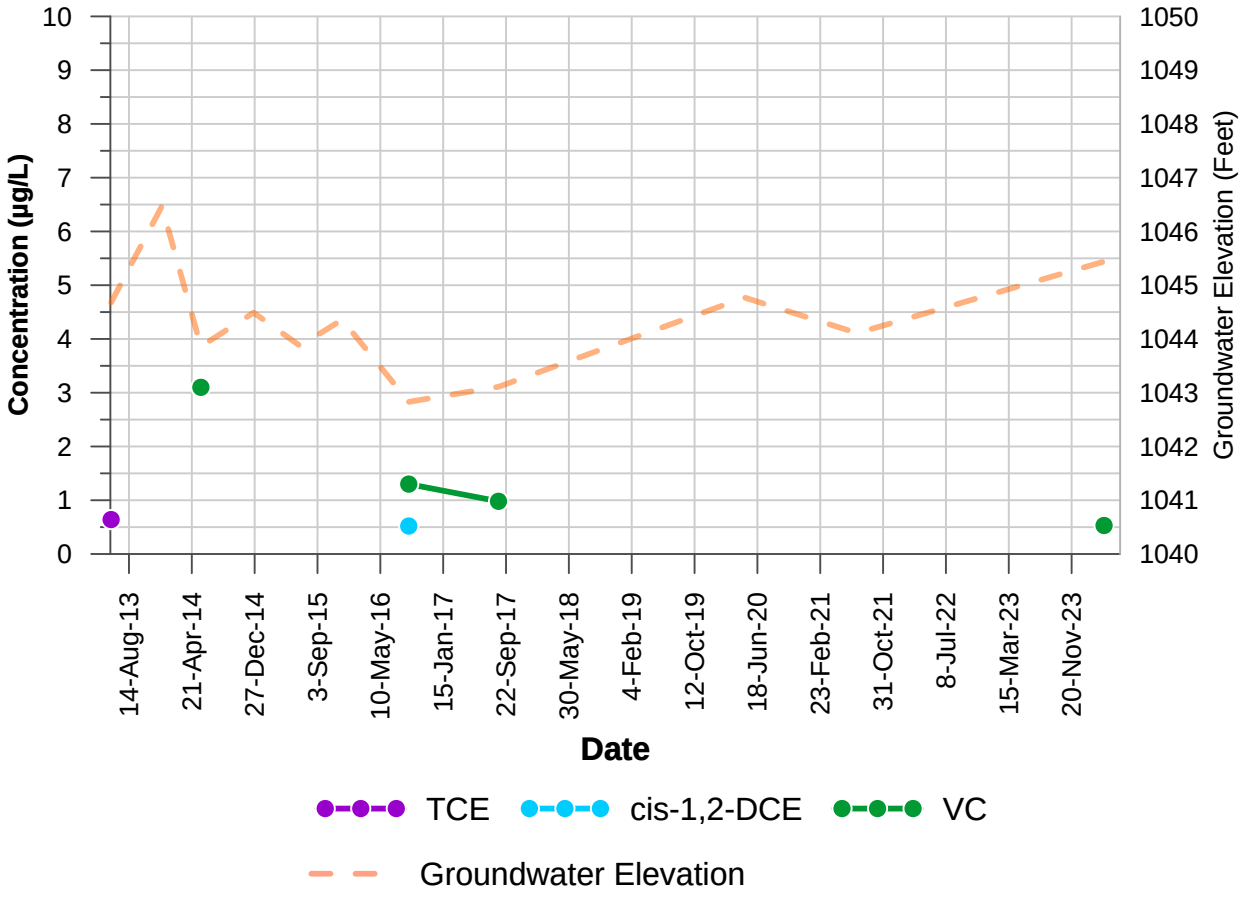
Plot Date: June 17 2024 3:06 PM





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
VC = Vinyl Chloride
3.) µg/L = microgram per Liter

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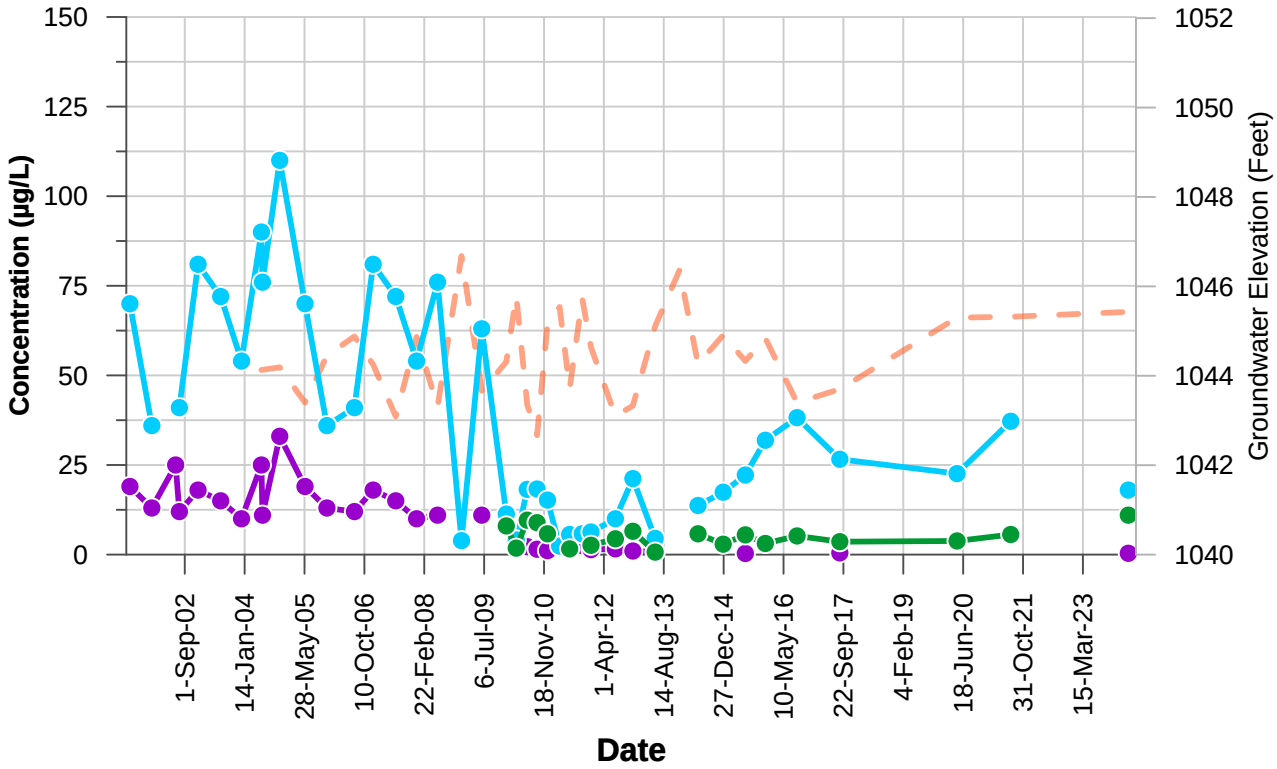
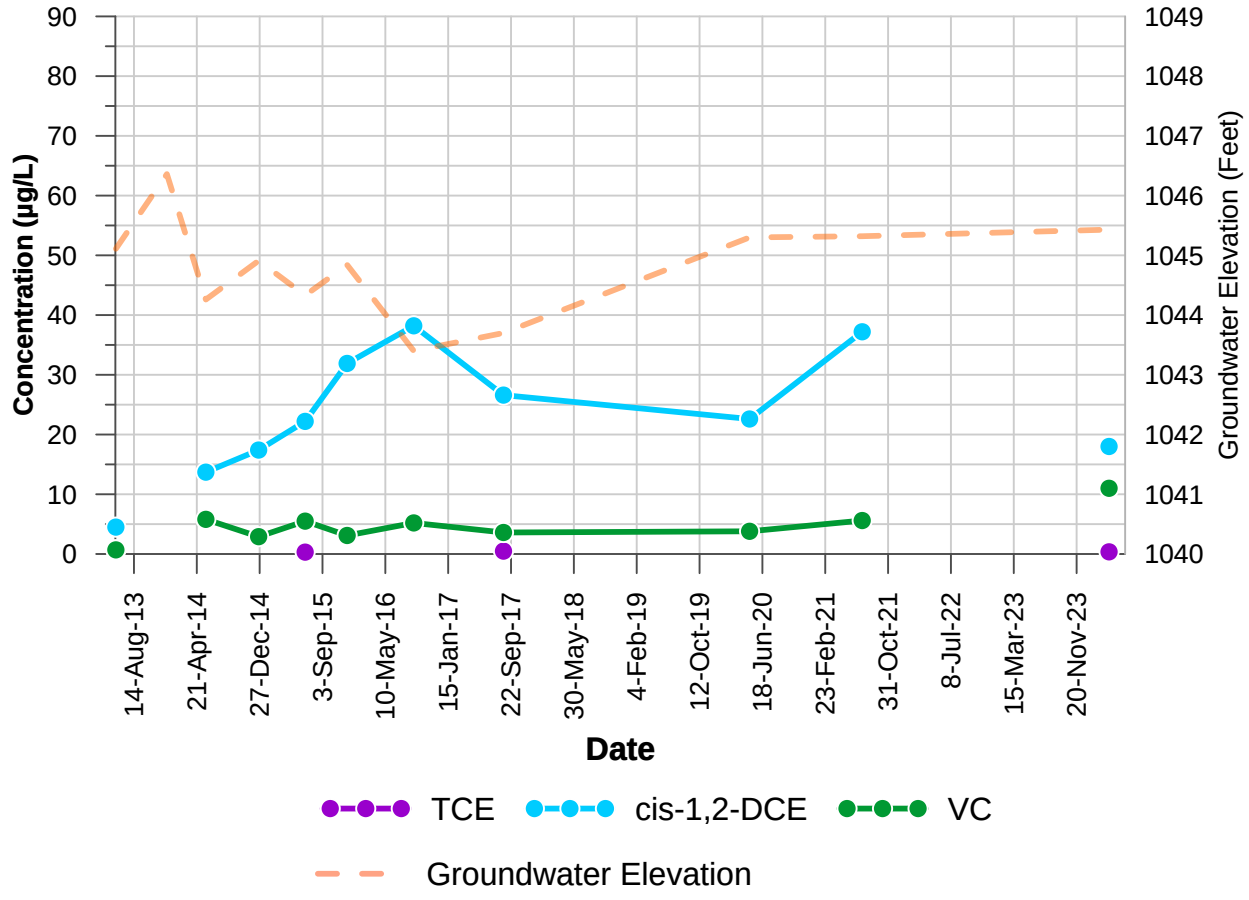
WELL MW-34

Graph 3

Filename: G:\564\12595756\Tech\2024 Groundwater Report\MW-34.gpj
Plot Date: June 17 2024 3:06 PM





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
VC = Vinyl Chloride
3.) µg/L = microgram per Liter

GHD

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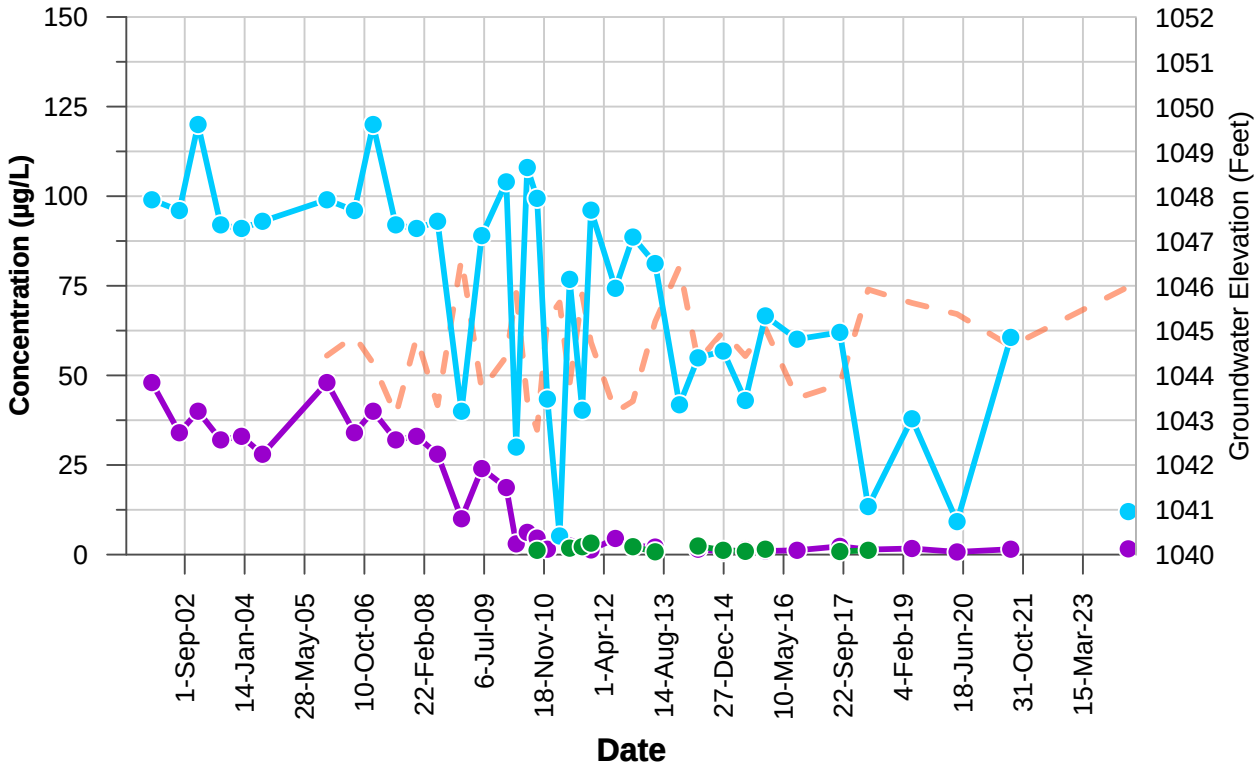
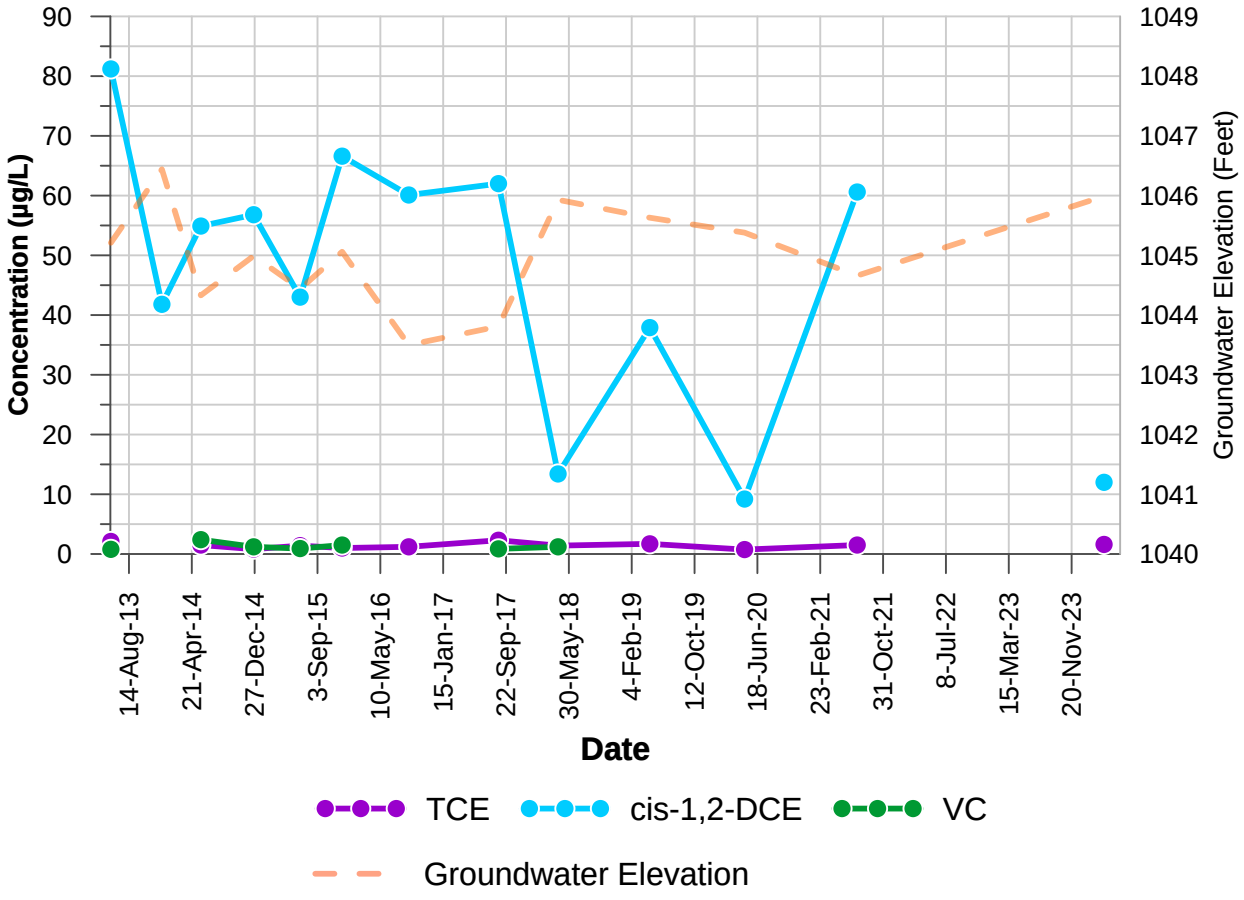
WELL MW-22

Project No. **12595756**
Date **May 31, 2024**

Graph 4

Filename: G:\564\12595756\Tech\2024 Groundwater Report\MW-22.gpj
Plot Date: June 17 2024 3:06 PM





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
VC = Vinyl Chloride
3.) µg/L = microgram per Liter

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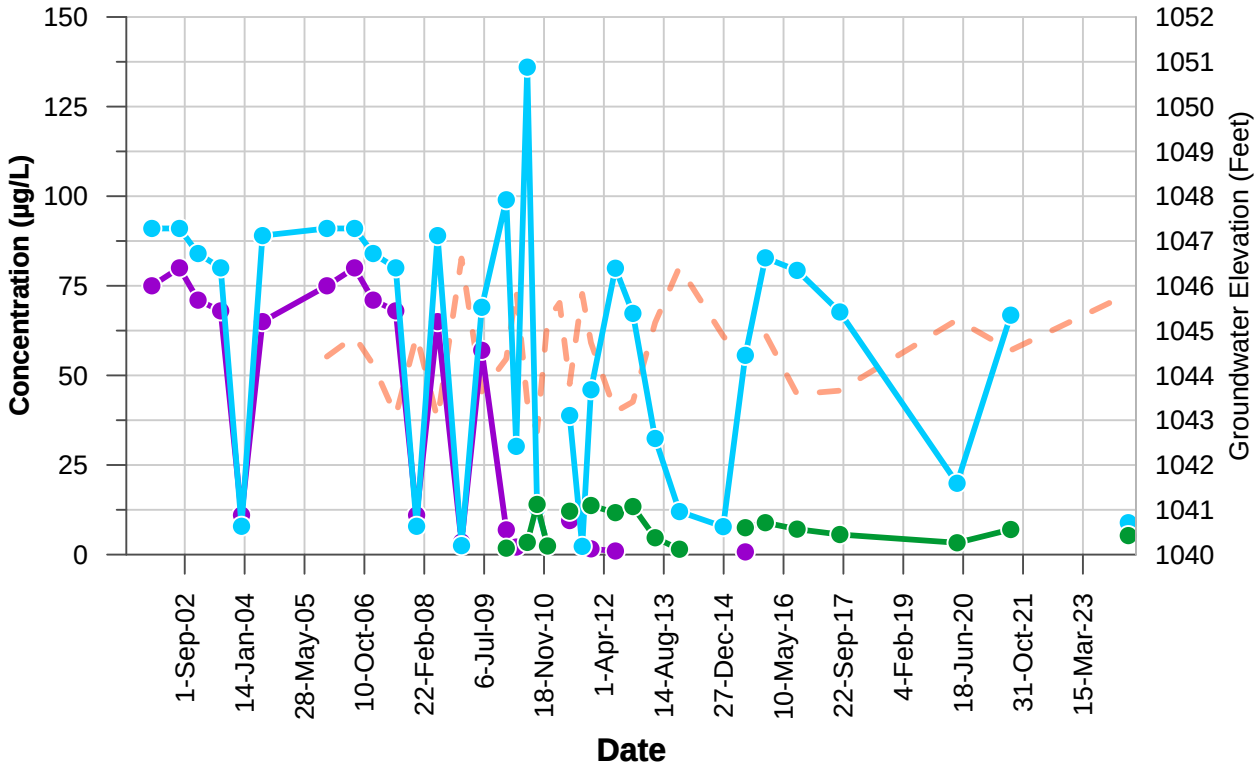
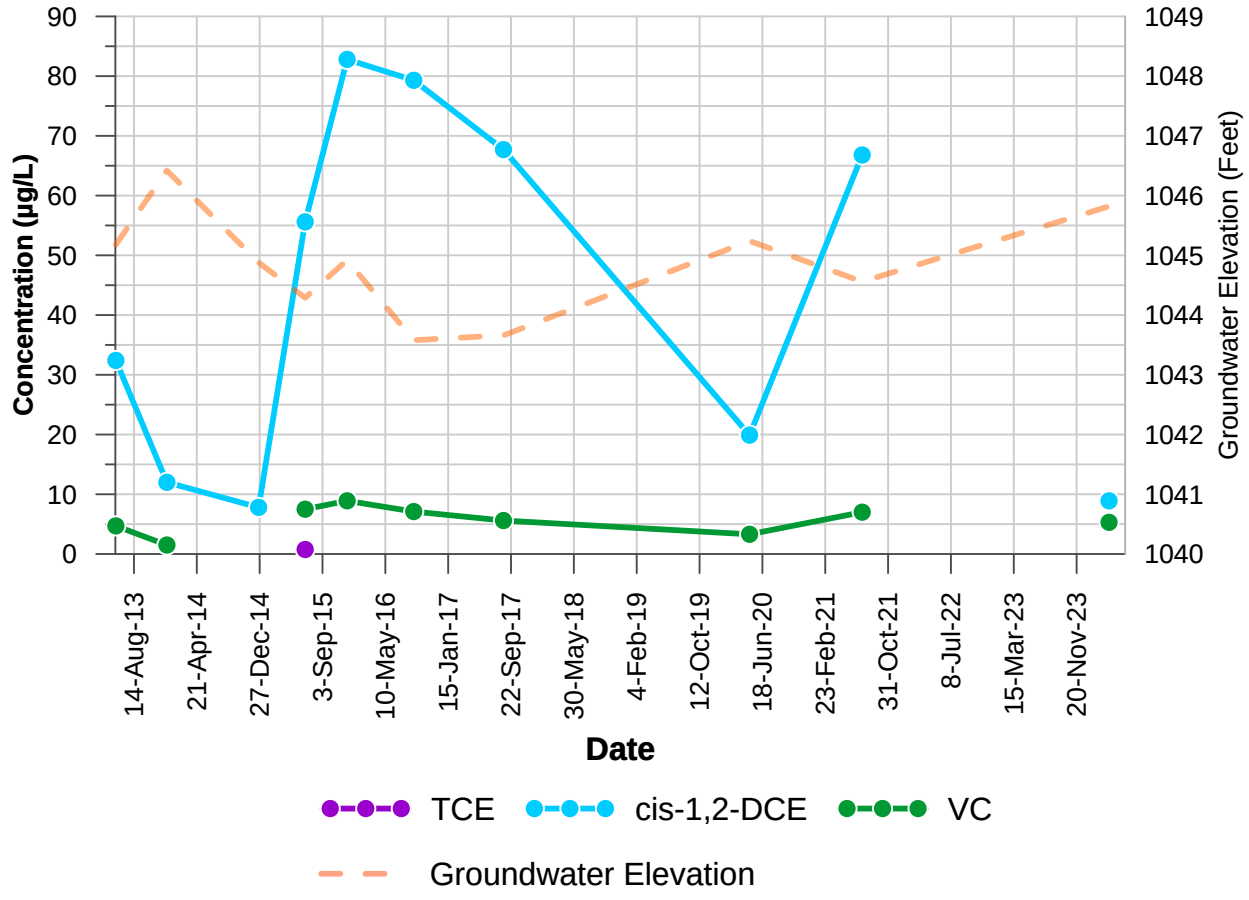
Date **May 31, 2024**

WELL MW-31

Graph 5

Filename: G:\564\12595756\Tech\2024 Groundwater Report\MW-31.gpj
Plot Date: June 17 2024 3:06 PM





Notes:
1.) Gaps in plots are due to the analyte being non-detect at either the laboratory reporting limit or laboratory method detection limit.
2.) TCE = Trichloroethene;
cis-1,2-DCE = cis-1,2-dichloroethene;
VC = Vinyl Chloride
3.) µg/L = microgram per Liter

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WELL MW-32

Graph 6

Filename: G:\564\12595756\Tech\2024 Groundwater Report\MW-32.gpj
Plot Date: June 17 2024 3:06 PM