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New York State Office of People with Developmental Disabilities – Gowanda Site – VCA Site No. V-00463-9

4 Industrial Place, Gowanda, NY

GROUNDWATER CHARACTERIZATION REPORT - DECEMBER 2023 (Q4 2023)

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Issued: March 13, 2024
Revision: May 15, 2024
DASNY Project No.: 3136109999

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1.0 INTRODUCTION

Bergmann is submitting this groundwater characterization report for the fourth quarter 2023 sampling event, conducted on December 7th and 8th of 2023, on behalf of the Dormitory Authority of the State of New York (DASNY) and the New York State Office of People with Developmental Disabilities (OPWDD) for activities conducted at the former Gowanda Day Habilitation Center facility at 4 Industrial Place, Gowanda, NY. The OPWDD, as the volunteer, entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) to conduct investigations and implement remedial measures in accordance with VCA Site No. V-00463-9, effective August 16, 2001.

1.1 SCOPE OF WORK

This report documents the site-wide groundwater monitoring and laboratory analytical sampling event conducted on December 7th and 8th of 2023. Field measurements, sampling procedures and laboratory analysis were conducted in accordance with the October 2006 Operations, Monitoring and Maintenance (OM&M) Manual and as modified with NYSDEC approval. During this sampling event, groundwater from twenty-one (21) of twenty-one (21) site-related groundwater monitoring wells and all seven (7) groundwater recovery wells were sampled for laboratory analysis.

The previous groundwater sampling event was conducted in September 2023 and included analysis of groundwater samples from the (21) site-related groundwater monitoring wells and the seven (7) groundwater recovery wells.

1.2 SITE BACKGROUND

The Gowanda Day Habilitation site consists of a 5.94-acre parcel located at 4 Industrial Place, Gowanda, New York. The building, previously used by several manufacturing operations, was built in stages between circa 1948 and 1987 and was renovated in 1987-1988. Manufacturing operations occurred at the site between 1956 and 1987. New York State agencies occupied the building since 1982. New York State acquired the parcel in 1989. The building was most recently operated by the OPWDD, which at that time was known as the Western New York Developmental Disabilities Services Office, as a Day Habilitation Center for mental care clients. In April 2001, on-site operations ceased. The nature and extent of contamination at the Gowanda Day Habilitation Center was detailed as part of the 2003 Site Investigation and 2004 Supplemental Site Investigation Reports. Trichloroethene (TCE) was the most commonly detected compound. TCE degradation products cis-1,2, Dichloroethene (Cis-1,2-DCE), trans-1,2-Dichloroethene (Trans-1,2-DCE) and Vinyl Chloride (VC) were also detected. The source of these CVOCs were releases that occurred during the manufacturing operations that occurred at the facility.

Following Interim Remedial Measure (IRM) system installation, the Groundwater Treatment System (GTS) and the Soil Vapor Extraction System (SVES) was operated from 2005 to 2013 recovered 2-5 gallons per minute (gpm) of groundwater. The GTS portion consisted of seven (7) groundwater recovery wells (four dual phase recovery wells and three groundwater-only recovery wells), an air compressor, a network of controller-less pneumatic pumps and an air stripper treatment system to process recovered groundwater. Recovered groundwater was pumped to the equalization tank for settling of the sediment and transferred to the air stripper using a consistent flow rate. Air discharge from the air stripper was routed to the SVE for treatment prior to discharge. Groundwater was discharged to the village of Gowanda Sewage Treatment Plant (STP). Quarterly groundwater sampling with Operation and Maintenance of the remediation system has been ongoing since 2002.

In January 2014, the condition of the SVE and GTS was discussed with the NYSDEC representative, and it was agreed that these systems would be deactivated to allow for groundwater level recovery during the preparation of an In-Situ Chemical Oxidation (ISCO) Remedial Action Plan (RAP) for the implementation of an ISCO treatment. Bergmann submitted an ISCO RAP for groundwater treatment to the NYSDEC to address the remaining contamination at the Site in lieu of costly repair of the SVE and GTS. The SVE and GTS equipment will remain on-site in the event that re-activation is required in the future. The SVES system was deactivated in 2013, and an ISCO treatment was implemented in May 2015 and a second round of injections in September 2015. An ISCO Report was prepared and submitted under a separate cover.

2.0 GROUNDWATER SAMPLING OVERVIEW AND METHODS

2.1 WELL MAINTENANCE ACTIVITIES

During the December 2023 site visit, all monitoring wells were accessible, and the integrity of the wells was not compromised. Repairs or maintenance to the network of groundwater monitoring wells or recovery wells were not required. All protective casings and flush-mount curb boxes were found to be intact and secure. Exterior monitoring wells are secured with locking stick-up protective casings. The monitoring wells within the building are secured with flush-mount roadway covers. Well maintenance was not performed during the December 2023 sampling event.

2.2 GROUNDWATER FIELD MONITORING AND SAMPLING ACTIVITIES

Groundwater measurements and sampling activities were conducted in accordance with the October 2006 OM&M Manual. The depths to groundwater in groundwater monitoring wells are measured quarterly to monitor site-wide changes in the water table elevation and to allow for adjustment at recovery wells. Past operation of the recovery wells was intended to establish hydraulic containment of the impacted groundwater plume beneath the former Day Habilitation building and improve recovery and treatment of impacted groundwater. Groundwater samples were collected from the twenty-one (21) site-related groundwater monitoring wells for laboratory analysis on December 7 and December 8, 2023. Depth to groundwater measurements were obtained from twenty-eight (28) wells (including recovery wells).

Groundwater samples were collected from monitoring wells after each well was gauged. Sample parameters including turbidity, temperature, pH, oxygen, and conductivity were determined by analyzing a quantity of groundwater in a cup using a YSI Quatro prior to sampling. Groundwater samples were collected from recovery wells using dedicated bailers, to allow for an accurate representation of groundwater without collecting sediment from within the wells. Sampling was performed based on discussion and direction from a telephone conversation with David Szymanski (NYSDEC project manager at the time) in January 2018 in which no noticeable changes in test results were noticed comparing bailing and slow purge methods. This was first noted in Q3 2018 and is also noted in the approved PRR dated 2019. A single duplicate sample and a field blank sample were collected and submitted for laboratory analysis.

The samples were transported from the project site via a chain-of-custody protocol to ALS Environmental, a NYSELAP certified laboratory located in Rochester, New York. The samples were then tested for Volatile Organic Compounds (VOCs), using EPA Method 8260. Analytical results for each individual monitoring well have been posted in Table 3 for comparative purposes from sampling events completed 2012 – 2023.

3.0 LOCAL GROUNDWATER FLOW CHARACTERIZATION

The Site potentiometric surface pattern and groundwater flow direction was determined for December 2023 using water table elevations measured at each well. Groundwater elevations and well reference elevations were calculated using depth to water values obtained on December 7 and December 8, 2023. The well gauging values and groundwater elevations are provided in Table 1 – Groundwater Elevations and Field Measurements – December 2023.

The December 2023 potentiometric surface map shows a flow pattern similar to groundwater flow pattern observed historically since 2002. Groundwater at the Site is flowing generally in a northerly direction. Torrance Place is hydraulically down-gradient from the Day Habilitation Center building. It is noted that the residential properties along Torrance Place utilize municipal/public water. The December 2023 water table elevations range from 766.84 feet (ft) above mean sea level (AMSL) at MW-21, to 774.27 ft. AMSL at MW-9. The average table water elevation was 770.17 ft AMSL, which is a decrease from the average groundwater elevation of the previous sampling event in September of 2023 (768.32 ft AMSL).

The site-wide average groundwater elevation increased by approximately 1.85 ft when compared to the previous sampling event from September 2023. This increase in the elevation of groundwater appears to be seasonal.

Measured depth to water at all gauged monitoring and recovery wells is presented in Table 1 and December 2023 Groundwater Elevation Contours are presented on Figure 1 – December 2023 Groundwater Elevation Contour Map.

4.0 LABORATORY ANALYSIS

4.1 LABORATORY ANALYSIS ON GROUNDWATER SAMPLES

Laboratory analysis was completed on the groundwater samples from twenty-one (21) monitoring wells and seven (7) recovery wells collected December 7 and December 8, 2023. Samples were analyzed for VOCs via EPA Method 8260. Analysis was performed in accordance with the October 2006 OM&M Manual. The following chlorinated VOCs (CVOCS) were analyzed for:

- Trichloroethene (TCE)
- 1,1,1 Trichloroethane (TCA)
- Cis-1,2-Dichloroethene (Cis-DCE)
- Trans-1,2-Dichloroethene (Trans-1,2-DCE)
- Vinyl Chloride (VC)

CVOCs values, as present throughout this report, in the text, charts, and Tables 2, 3, and 4, are the of the sum of detected concentration of TCE, Cis-DCE, TRANS-1,2-DCE, VC, and TCA. Sample results for monitoring well MW-11, recovery well DR-1, and MW-X initially were detected above laboratory instrument range, resulting in estimated values. Secondary analysis was then performed on dilutions of these samples for more accurate results. The resulting values from this secondary analysis were used in the narrative of this report.

4.2 MONITORING WELL GROUNDWATER ANALYSIS SUMMARY

The December 2023 analytical results indicate detection of three (3) chlorinated VOCs (CVOCs) in monitoring well samples: TCE, Cis-DCE, Trans-1,2-DCE, and VC. CVOCs were detected in groundwater samples from nine (9) of the twenty-one (21) monitoring wells sampled. Analytical results are summarized in Table 2 – December 2023 Analytical Results Summary, which compares detected VOCs and applicable NYSDEC Class GA Standards for each analyte. The complete laboratory analytical report is provided in Appendix A – Laboratory Analytical Results Report December 2023 Sampling Event. Table 3 – Historic Groundwater Analysis Results Summary includes the historical CVOC concentrations at each well since the groundwater monitoring of the wells began in 2002.

VOCs were not detected in groundwater from twelve (12) of the sampled monitoring wells.

Groundwater samples from nine (9) monitoring wells had detectable CVOCs at concentrations above applicable Class GA Standards. The monitoring well with the highest CVOCs were detected at monitoring wells MW-1 (679.00 parts per billion (ppb)), which is in the area of historically greatest impacted groundwater.

Concentrations in three (3) of the twenty-one (21) monitoring well groundwater samples increased when compared to the September 2023 sampling event while concentrations in eight (8) of the twenty-one (21) monitoring well groundwater samples decreased. The concentrations of CVOCs in ten (10) monitoring wells remain unchanged. The current sampling analytical results indicate an average site-wide decrease in CVOCs of approximately 91.81% since the activation of the GTS in September 2005.

The area of highest concentration of CVOCs groundwater is in the area centered between monitoring wells MW-1 and MW-11, which has historically concentrations of CVOCs have been detected and is inferred as the source area of impacted groundwater.

In the source area of the plume (MW-1, MW-6, MW-7, MW-11, MW-12, MW-14, MW-15, and MW-17) the analytical results show a contaminant reduction in CVOC concentrations by an average of approximately 82.59% since monitoring of these wells began in 2002.

- The total CVOC concentration at monitoring well MW-1 for the December 2023 sampling event was 679 parts per billion (ppb), an increase from the September 2023 value of 660 ppb.

- The total CVOC concentration at MW-11 for the December 2023 sampling event is 565 ppb, an increase from the September 2023 value of 220 ppb.
- The total CVOC concentration at MW-12 for the December 2023 sampling event is 58 ppb, a decrease from the September 2023 value of 60 ppb. MW-12 is in close proximity to the center of the building.
- The CVOC were not detected at monitoring well MW-13 for the December 2023 sampling event nor in the September 2023 sampling event.
- The total CVOC concentration at MW-14 for the December 2023 sampling event is 25.4 ppb, a decrease
- from the September 2023 value of 30 ppb.
- The CVOC were not detected at MW-15 in December 2023 sampling, a decrease from the September 2023 sampling event, which was 5.90 ppb.

Six (6) groundwater monitoring wells are located along the subject property's north perimeter, down-gradient from the area of impacted groundwater (MW-5, MW-6, MW-7, MW-16, MW-17, and MW-21). The current analytical data exhibits an overall decrease in targeted CVOCs at the sampled monitoring wells along the north perimeter, compared to the September 2023 sampling event.

Laboratory analytical reports are included in Appendix A. Monitoring well locations and distribution of analytical results are shown on Figure 2 – December 2023 Distribution of Groundwater Analytical Results: Monitoring Wells.

4.3 SENTRY WELL GROUNDWATER ANALYSIS SUMMARY

Sentry groundwater monitoring wells monitor a separate occurrence of contaminated groundwater at the Gowanda Electronics Site (NYSDEC Site 905025), immediately east of Industrial Place and east of the Day Habilitation Center property. The eastern sentry wells sampled for this event were MW-19R and MW-4. The current results indicate non-detection for MW-19R and non-detection for MW-4. Results for MW-20, a well situated on the eastern side of the site north of MW-4 and south of MW-19R, were also non-detect.

The Gowanda Electronics impacted groundwater plume may be migrating to an area near Industrial Place and has intermittently impacted MW-19R. The Gowanda Electronics impacted groundwater plume does not appear to extend to the Day Habilitation Center property, based on consistent non-detect values at the eastern sentry wells. Conversely, impacted groundwater from the Day Habilitation Center does not appear to extend off-site to the east toward Industrial Place. A ISCO injection application was implemented for the Gowanda Electronics site in June 2014.

Laboratory analytical results are included in Appendix A. Sentry well locations and analytical results are shown on Figure 2.

4.4 RECOVERY WELL GROUNDWATER ANALYSIS SUMMARY

During the December 2023 sampling event, all of the seven (7) recovery wells were sampled. The recovery wells were active during GTS system operation from 2005 to 2014. The recovery wells have not been active since 2013.

The December 2023 analytical results indicate detection of chlorinated VOCs in all seven (7) recovery well samples that include: TCE, and Cis-DCE. Relative percent decrease in CVOCs for all monitoring wells and recovery wells are shown on Table 4 – Percent Reductions in Total Groundwater CVOCs.

- The total CVOC concentration at DR-1 for the December 2023 sampling event is 786 ppb, an increase from the September 2023 value of 101 ppb.
- The total CVOC concentration at DR-2 for the December 2023 sampling event is 121ppb, an increase from the May 2023 value of 110 ppb.

- The total CVOC concentration at DR-3 for the December 2023 sampling event is 40 ppb, a decrease from the May 2023 value of 70 ppb.
- The total CVOC concentration at DR-4 for the December 2023 sampling event is 25.5 ppb, an increase from the September 2023 value of 25.2 ppb.
- The total CVOC concentration at G-1 for the December 2023 sampling event is 48 ppb, a decrease from the September 2023 value of 49 ppb.
- The total CVOC concentration at G-2 for the December 2023 sampling event is 33 ppb, a decrease from the May 2023 value of 50 ppb.
- The total CVOC concentration at G-3 for the December 2023 sampling event is 6.90 ppb, a decrease from the May 2023 value of 156 ppb.

Laboratory analytical results are included in Appendix A. Recovery well locations and analytical results are shown on Figure 3 – December 2023 Distribution of Groundwater Analytical Results: Recovery Wells.

4.5 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

An equipment blank was collected. The analytical results for this equipment blank were non-detect. A trip blank was supplied by the laboratory for the December 2023 sampling event and was analyzed and was also non-detect.

A field duplicate (labeled as MW-X) was taken from MW-1. The results of this field duplicate were generally consistent with the results of the sample labeled MW-1 as shown in Tables 2 and 3.

Laboratory analytical results are included in Appendix A.

5.0 FUTURE GROUNDWATER MONITORING AND ANALYSIS ACTIVITIES

The next site-wide groundwater sampling and laboratory analysis event is scheduled for Q1 2024. Future groundwater sampling events will be conducted to monitor groundwater conditions to evaluate seasonal changes in water table elevations.

APPENDICES

TABLES

Table 1 Groundwater Elevations and Field Measurements December 2023
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

	Monitoring Wells									
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Casing Elevation*	778.23	778.08	778.38	778.43	778.61	781.10	780.94	781.33	782.61	780.02
Depth to Groundwater (btoc)	5.52	4.80	5.25	6.53	10.32	12.95	13.05	8.90	8.34	6.05
Groundwater Elevation	772.71	773.28	773.13	771.90	768.29	768.15	767.89	772.43	774.27	773.97
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Product Thickness	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Depth (btoc)	16.02	17.15	16.30	15.78	13.95	22.88	21.80	17.65	20.96	19.44
Bottom of Well Elevation	762.21	760.93	762.08	762.65	764.66	758.22	759.14	763.68	761.65	760.58
Thickness of Water Column	10.50	12.35	11.05	9.25	3.63	9.93	8.75	8.75	12.62	13.39
Minimum Purge Volume (gal)	1.71	2.01	1.80	1.51	0.59	1.62	1.4	1.43	2.06	2.2
3 Volumes	5.13	6.04	5.40	4.523	1.78	4.86	4.28	4.28	6.17	6.55
Actual volume purged	5.25	6.25	5.50	4.75	2.00	5.00	4.50	4.50	6.25	6.75
Comments	Flush = -0.29'	Flush = -0.30'	Flush = -0.23'	Flush = -0.34'	Flush = -0.24'	Stickup=2.17'	Stickup=2.17'	Stickup=2.84'	Stickup=2.05'	Stickup=2.56'

	Monitoring Wells										
	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19R	MW-20	MW-21
Casing Elevation	778.58	778.50	778.39	778.43	778.38	780.43	779.85	776.39	774.2	778.04	774.76
Depth to Groundwater (btoc)	5.70	6.15	6.45	9.90	10.20	12.75	12.80	8.85	7.31	8.60	7.92
Groundwater Elevation	772.88	772.35	771.94	768.53	768.18	767.68	767.05	767.54	766.9	769.44	766.84
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Product Thickness	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Depth (btoc)	15.48	17.38	17.40	18.15	19.80	23.26	25.18	25.0	17.67	14.75	15.82
Bottom of Well Elevation	763.10	761.12	760.99	760.28	758.58	757.17	754.67	751.39	756.53	763.29	758.94
Thickness of Water Column	9.78	11.23	10.95	8.25	9.60	10.51	12.38	16.15	10.36	6.15	7.90
Minimum Purge Volume (gal)	1.59	1.83	1.78	1.34	1.56	1.7	2.02	2.63	1.7	1.0	1.3
3 Volumes	4.78	5.49	5.35	4.03	4.69	5.14	6.05	7.90	5.07	3.01	3.86
Actual volume purged	5.00	5.50	5.50	4.25	4.75	5.25	6.25	8.00	5.25	3.25	4.00
Comments	Flush = -0.23'	Flush = -0.35'	Flush = -0.48'	Flush = -0.39'	Flush = -0.38	Stickup=2.26'	Stickup=1.18'	Flush =-0.26'	Flush ='0.36'	Flush=-0.43'	Flush =-.71'

	Recovery Wells						
	DR-1	DR-2	DR-3	DR-4	G-1	G-2	G-3
Casing Elevation	779.66	779.93	779.78	779.64	779.83	779.72	779.42
Depth to Groundwater (btoc)	6.70	6.50	11.30	11.25	11.47	11.50	9.89
Groundwater Elevation	772.96	773.43	768.48	768.39	768.36	768.22	769.53
Well Diameter	4"	4"	4"	4"	4"	4"	4"
Product Thickness	ND	ND	ND	ND	ND	ND	ND
Well Depth (btoc)	18.06	18.06	20.45	19.69	22.98	20.72	18.15
Bottom of Well Elevation	761.6	761.87	759.33	759.95	756.85	759	761.27
Thickness of Water Column	11.36	11.56	9.15	8.44	11.51	9.22	8.26
Minimum Purge Volume (gal)	7.42	7.55	5.97	5.51	7.52	6.02	5.39
3 Volumes	22.254	22.65	17.92	16.53	22.55	18.062	16.18
Actual volume purged	22.50	22.75	18.0	16.75	22.75	18.25	16.25
Comments	Stickup=0.85'	Stickup=1.06'	Stickup=0.95'	Stickup=0.84'	Stickup=1.03'	Stickup=0.86'	Vaulted well

NOTES

btoc = Below top of casing (inner riser) All measurements are in feet, referenced to Mean Sea Level
NS = Not Sampled
ND = No floating product encountered
Minimum purge volume = 3 X well volume, 0.163 gallon per foot in a 2" diameter well. 0.653 gallon per foot in a 4" diameter well.
Monitoring well MW-19 was removed and the area restored on July 23, 2003 immediately after the well was developed, purged of 3 volumes and sampled.
The borehole for MW-19 was backfilled with a cement-bentonite grout after the PVC screening and casing was successfully removed.
Wells MW-19R, MW-20 and MW-21 were installed in October 2004.

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Monitoring Well MW-1 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**400.00**	**580.00**	5.0
CIS	**260.00**	**99.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**660.00**	**679.00**	

Monitoring Well MW-2 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-3 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-4 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-5 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-6 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**34.00**	**35.00**	5.0
TRANS	ND	ND	5.0
VC	**50.00**	**52.00**	2.0
TCA	ND	ND	5.0
Total VOCs	**84.00**	**87.00**	

ND = Non-detect
Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Monitoring Well MW-7 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**44.00**	**6.10**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**44.00**	**6.10**	

Monitoring Well MW-10 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	May 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-8 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-11 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**140.00**	**350.00**	5.0
CIS	**80.00**	**200.00**	5.0
TRANS	ND	**15.00**	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**220.00**	**565.00**	

Monitoring Well MW-9 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-12 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**13.00**	**22.00**	5.0
CIS	**47.00**	**36.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**60.00**	**58.00**	

ND = Non-detect Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Monitoring Well MW-13 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-14 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**13.00**	**18.00**	5.0
CIS	**17.00**	**7.40**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**30.00**	**25.40**	

Monitoring Well MW-15 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**5.90**	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**5.90**	ND	

Monitoring Well MW-16 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**14.00**	**11.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**14.00**	**11.00**	

Monitoring Well MW-17 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**8.30**	**6.20**	5.0
CIS	**210.00**	**54.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**218.30**	**60.20**	

Monitoring Well MW-18 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**26.00**	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**26.00**	ND	

ND = Non-detect
Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Monitoring Well MW-19R Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-20 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

Monitoring Well MW-21 Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**23.00**	**16.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**23.00**	**16.00**	

ND = Non-detect Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Recovery Well DR-1 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**86.00**	**730.00**	5.0
CIS	**15.00**	**56.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**101.00**	**786.00**	

Recovery Well DR-2 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**15.00**	**22.00**	5.0
CIS	**95.00**	**99.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**110.00**	**121.00**	

Recovery Well DR-3 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**23.00**	**28.00**	5.0
CIS	**47.00**	**12.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**70.00**	**40.00**	

Recovery Well DR-4 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**17.00**	**18.00**	5.0
CIS	**8.20**	**7.50**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**25.20**	**25.50**	

Recovery Well G-1 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**49.00**	**48.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**49.00**	**48.00**	

Recovery Well G-2 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	**50.00**	**33.00**	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**50.00**	**33.00**	

ND = Non-detect
Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 2 December 2023 Analytical Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Recovery Well G-3 Sample Date: 12/07/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	**16.00**	**6.90**	5.0
CIS	**140.00**	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	**156.00**	**6.90**	

Duplicate Blank (MW-1) Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Dec 2023	NYS Guidance Value
TCE	**570.00**	5.0
CIS	**100.00**	5.0
TRANS	ND	5.0
VC	ND	2.0
TCA	ND	5.0
Total VOCs	**670.00**	

Equipment Blank Sample Date: 12/08/23
Sampling Events

Analyte in ppb	Sep 2023	Dec 2023	NYS Guidance Value
TCE	ND	ND	5.0
CIS	ND	ND	5.0
TRANS	ND	ND	5.0
VC	ND	ND	2.0
TCA	ND	ND	5.0
Total VOCs	ND	ND	

ND = Non-detect Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.
NS = Not Sampled. No analysis performed during this sampling event.
Results expressed as parts per billion (ppb).
Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 3 Historic Groundwater Analysis Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

MONITORING WELLS

Monitoring Well Number	Total VOCs Dec 2023 (ppb)	Total VOCs Sep 2023 (ppb)	Total VOCs May 2023 (ppb)	Total VOCs Mar 2023 (ppb)	Total VOCs Dec 2022 (ppb)	Total VOCs Sep 2022 (ppb)	Total VOCs Jun 2022 (ppb)	Total VOCs Mar 2022 (ppb)	Total VOCs Nov 2021 (ppb)	Total VOCs Sep 2021 (ppb)	Total VOCs Mar 2021 (ppb)	Total VOCs Nov 2020 (ppb)	Total VOCs July 2020 (ppb)	Total VOCs June 2020 (ppb)	Total VOCs Feb 2020 (ppb)	Total VOCs Oct 2019 (ppb)	Total VOCs Aug 2019 (ppb)	Total VOCs July 2019 (ppb)	Total VOCs Nov 2018 (ppb)	Total VOCs Aug 2018 (ppb)	Total VOCs May 2018 (ppb)	Total VOCs April 2018 (ppb)	Total VOCs Nov 2017 (ppb)	Total VOCs Aug 2017 (ppb)	Total VOCs Nov 2016 (ppb)	Total VOCs Sep 2016 (ppb)	Total VOCs Jun 2016 (ppb)	Total VOCs Nov 2015 (ppb)	Total VOCs Aug 2015 (ppb)	Total VOCs Jun 2015 (ppb)	Total VOCs Mar 2015 (ppb)	Total VOCs Nov 2014 (ppb)	Total VOCs Sep 2014 (ppb)	Total VOCs Jun 2014 (ppb)	Total VOCs Mar 2014 (ppb)	Total VOCs Dec 2013 (ppb)	Total VOCs Jul 2013 (ppb)	Total VOCs Apr 2013 (ppb)	Total VOCs Dec 2012 (ppb)	Total VOCs Jun 2012 (ppb)	Total VOCs Mar 2012 (ppb)
MW-1	679.00	660.00	600.00	449.00	869.60	1,002.30	529.40	382.59	980.46	404.62	928.90	344.70	1,020.00	991.80	993.50	1,009.00	698.00	1,081.00	1,080.00	1,190.00	1,110.00	374.00	1,013.00	1,210.00	1,467.00	838.00	580.00	1,530.00	1,470.00	350.00	430.00	300.00	420.00	990.00	990.00	1,740.00	830.00	910.00	1,440.00	528.00	889.00
MW-2	ND	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	0.28	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	ND	ND	ND	ND	0.20	1.14	1.04	0.25	ND	ND	1.31	1.14	ND	0.30	ND	ND	0.28	0.39	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	0.69	0.75	1.00	0.60	1.20	1.50	0.79	1.60	ND	0.51	0.42	0.47	0.52	0.90	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	87.00	84.00	59.00	62.00	100.00	184.00	89.00	92.21	112.00	95.00	78.00	81.20	66.00	79.41	64.80	99.10	92.64	86.63	81.00	84.00	77.00	76.00	100.00	91.00	87.00	120.00	100.00	120.00	96.00	86.00	81.00	110.00	110.00	96.00	94.00	130.00	99.00	93.00	99.00	86.70	85.70
MW-7	6.10	44.00	50.00	22.00	23.87	8.76	30.26	33.06	29.15	102.37	94.74	173.67	ND	73.89	1.16	55.58	39.00	27.83	ND	ND	ND	ND	5.80	29.00	110.00	62.00	83.00	49.00	130.00	58.00	ND	180.00	190.00	29.00	ND	ND	18.00	ND	ND	151.56	30.50
MW-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	565.00	220.00	355.00	304.00	291.40	350.00	200.10	420.60	495.40	386.90	490.70	546.50	584.00	1,274.00	604.50	699.30	937.40	1,059.00	489.30	282.00	489.00	1,160.00	470.00	525.00	646.00	445.00	550.00	1,060.00	630.00	444.00	500.00	451.00	375.00	450.00	710.00	880.00	510.00	570.00	790.00	498.00	617.00
MW-12	58.00	60.00	221.00	170.00	93.65	78.30	168.10	271.90	125.40	65.86	65.88	60.05	84.00	147.03	116.54	54.00	54.48	79.00	53.00	25.00	100.00	113.00	31.00	40.00	7.10	7.80	15.80	28.80	52.00	97.00	120.00	126.00	136.00	200.00	212.00	173.00	149.30	186.60	142.00	86.50	148.22
MW-13	ND	ND	ND	ND	2.06	0.96	2.06	5.11	1.83	0.95	2.40	1.34	ND	2.70	3.40	2.10	0.50	1.38	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14	25.40	30.00	60.00	63.90	52.30	91.90	31.00	104.45	91.86	84.40	20.80	63.40	13.00	18.20	34.00	33.00	26.50	25.90	30.70	22.30	22.80	28.00	38.00	22.10	76.00	100.00	57.00	81.00	96.00	52.00	99.00	68.00	68.00	54.00	73.00	94.00	49.00	71.00	47.00	39.70	76.60
MW-15	ND	5.90	6.90	ND	5.20	3.70	14.10	9.40	15.60	24.80	2.60	25.80	ND	5.00	2.90	7.60	8.10	4.90	ND	6.50	ND	ND	ND	7.40	11.00	23.80	11.00	9.90	14.00	8.10	9.80	32.00	31.00	6.10	ND	6.80	7.00	ND	12.90	26.26	6.25
MW-16	11.00	14.00	33.00	23.00	26.66	9.72	41.79	35.02	31.75	22.56	14.32	11.29	13.00	37.43	25.62	7.11	31.53	37.61	41.00	10.00	41.00	43.00	32.00	36.00	14.00	20.00	37.00	31.00	13.00	6.80	ND	5.20	9.40	21.00	24.00	20.00	8.40	24.00	18.00	4.36	12.20
MW-17	60.20	218.30	181.00	7.30	226.32	172.22	NS	85.32	85.27	230.86	173.60	271.20	295.00	266.20	16.20	193.01	342.00	277.00	218.00	265.00	112.50	5.10	222.00	396.00	375.00	465.00	425.00	460.00	410.00	NS	336.00	394.00	410.00	339.00	167.00	420.00	400.00	21.30	430.00	381.00	260.10
MW-18	ND	26.00	6.30	ND	5.94	7.01	9.43	3.88	6.42	6.33	1.55	7.13	ND	2.27	0.73	1.60	3.10	2.80	ND	ND	ND	ND	6.30	ND	10.00	26.00	6.90	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	16.60	2.33
MW-19R	ND	ND	ND	ND	ND	0.22	0.32	0.30	0.29	0.34	0.50	0.36	ND	0.26	0.19	0.28	0.60	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.50	ND	ND		
MW-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	ND	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-21	16.00	23.00	5.80	5.20	16.35	25.48	6.35	7.76	15.27	19.16	5.60	32.04	11.00	5.90	23.50	24.49	18.33	NS	NS	NS	NS	NS	NS	NS	17.00	39.00	8.70	20.00	20.00	10.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-X (DUP)	670.00	ND	344.60	567.00	281.30	215.80	1.20	109.45	6.50	ND	152.40	100.46	13.00	2.40	3.30	1,118.90	1,118.90	914.60	ND	ND	434.00	NS	490.00	DWS	1,705.00	879.00	550.00	1,720.00	410.00	360.00	407.00	300.00	400.00	870.00	990.00	1,850.00	540.00	186.80	1,450.00	521.00	913.00
EB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

RECOVERY WELLS

Recovery Well Number	Total VOCs Dec 2023 (ppb)	Total VOCs Sep 2023 (ppb)	Total VOCs May 2023 (ppb)	Total VOCs Mar 2023 (ppb)	Total VOCs Dec 2022 (ppb)	Total VOCs Sep 2022 (ppb)	Total VOCs Jun 2022 (ppb)	Total VOCs Mar 2022 (ppb)	Total VOCs Nov 2021 (ppb)	Total VOCs Sep 2021 (ppb)	Total VOCs Mar 2021 (ppb)	Total VOCs Nov 2020 (ppb)	Total VOCs July 2020 (ppb)	Total VOCs June 2020 (ppb)	Total VOCs Feb 2020 (ppb)	Total VOCs Oct 2019 (ppb)	Total VOCs Aug 2019 (ppb)	Total VOCs July 2019 (ppb)	Total VOCs Nov 2018 (ppb)	Total VOCs August 2018 (ppb)	Total VOCs May 2018 (ppb)	Total VOCs April 2018 (ppb)	Total VOCs Nov 2017 (ppb)	Total VOCs Aug 2017 (ppb)	Total VOCs Nov 2016 (ppb)	Total VOCs Sep 2016 (ppb)	Total VOCs Jun 2016 (ppb)	Total VOCs Nov 2015 (ppb)	Total VOCs Aug 2015 (ppb)	Total VOCs Jun 2015 (ppb)	Total VOCs Mar 2015 (ppb)	Total VOCs Nov 2014 (ppb)	Total VOCs Sep 2014 (ppb)	Total VOCs Jun 2014 (ppb)	Total VOCs Mar 2014 (ppb)	Total VOCs Dec 2013 (ppb)	Total VOCs Jul 2013 (ppb)	Total VOCs Apr 2013 (ppb)	Total VOCs Dec 2012 (ppb)	Total VOCs Jun 2012 (ppb)	Total VOCs Mar 2012 (ppb)
DR-1	786.00	101.00	370.00	570.00	940.40	225.80	341.00	663.50	598.60	98.05	485.30	117.80	909.00	1222.00	1123.60	912.60	1038.00	1832.00	1310.00	1510.00	1319.00	1070.00	1540.00	1970.00	617.00	610.00	910.00	319.00	160.00	NS	21.70	63.00	55.00	75.00	132.00	87.00	73.00	82.00	43.00	29.38	673.00
DR-2	121.00	110.00	77.00	86.00	214.90	128.70	100.15	129.15	251.30	162.40	144.20	111.60	116.00	129.70	137.80	185.90	192.00	156.00	216.00	162.00	128.00	130.00	181.00	199.00	137.00	218.00	215.00	199.00	187.00	291.00	259.00	162.00	224.00	231.00	207.00	302.00	256.00	293.00	19.00	229.90	305.30
DR-3	40.00	70.00	53.00	41.00	69.30	76.05	85.71	75.20	94.88	85.26	68.77	81.73	63.00	81.80	67.70	99.70	101.00	91.00	73.00	87.00	125.40	34.00	48.00	NS	98.00	154.00	62.00	45.00	76.00	83.00	55.00	181.00	210.00	83.00	89.00	123.00	62.00	73.00	42.00	116.96	24.90
DR-4	25.50	25.20	14.00	15.00	28.10	31.25	24.40	29.00	34.60	34.10	31.90	42.34	29.90	30.50	32.40	40.60	46.60	40.00	37.20	48.00	31.20	31.60	46.00	52.00	79.00	95.00	63.00	94.00	110.00	71.00	147.00	156.00	148.00	96.00	64.00	68.00	79.00	37.00	90.00	122.60	ND
G-1	48.00	49.00	34.50	33.50	53.85	87.50	41.98	47.21	53.68	51.83	45.82	100.60	53.00	37.60	50.10	70.00	78.70	50.40	74.60	77.00	40.00	22.00	70.00	73.50	85.00	105.60	59.70	80.30	ND	68.00	146.00	101.00	105.00	90.00	78.00	96.20	69.10	55.80	52.60	68.55	65.58
G-2	33.00	50.00	24.00	30.00	44.58	33.91	67.69	45.35	52.67	45.40	64.38	37.46	54.00	30.90	18.80	90.49	90.00	69.00	25.00	68.00	50.00	46.00	8.50	NS	NS	ND	NS	NS	28.00	NS	48.00	34.00	37.00	52.00	14.00	68.00	81.00	50.00	132.20	75.30	41.90
G-3	6.90	156.00	138.00	127.00	182.89	182.69	160.51	153.75	185.80	226.09	177.73	236.35	235.00	272.36	335.52	305.34	309.65	309.65	15.00	322.00	NS	NS	NS	NS	293.00	404.00	420.00	262.00	370.00	NS	NS	NS	NS	NS	82.00	NS	11.00	25.00	41.60	147.30	44.20	

NS= This well not included in this sampling event.
ND = Not Detected. results less than Method Detection Limit.
Impacted north property line wells: MW-5, MW-6, MW-7, MW-16, MW-17, MW-21
All compounds are measured in parts per billion (ppb).
VOC - Volatile Organic Compounds.
DUP - Duplicate Sample
EB - Equipment/Field Blank Sample
* - Sample was broken in transit and not able to be analyzed
DWS- Different Well Sampled than previously tested

Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected.

Table 4 Percent Reductions in Total Groundwater VOCs

Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

The Groundwater Treatment System was activated in May 2005

Monitoring Well	% Reduction 2002 to Dec 2023	% Reduction 2002 to Sep 2023	% Reduction 2002 to May 2023	% Reduction 2002 to March 2023	% Reduction 2002 to December 2022	% Reduction 2002 to September 2022	% Reduction 2002 to June 2022	% Reduction 2002 to March 2022	% Reduction 2002 to November 2021	% Reduction 2002 to September 2021	% Reduction 2002 to March 2021	% Reduction 2002 to November 2020	% Reduction 2002 to July 2020	% Reduction 2002 to Jun 2020	% Reduction 2002 to Feb 2020	% Reduction 2002 to Oct 2019	% Reduction 2002 to Aug 2019	% Reduction 2002 to July 2019	% Reduction 2002 to Nov 2018
MW-1†	11.59%	14.06%	21.88%	41.54%	-13.23%	-30.51%	31.07%	50.18%	-27.66%	47.32%	-20.95%	55.12%	-32.81%	-29.14%	-29.36%	-31.4%	9.11%	-40.76%	-40.6%
MW-2	100.00%	100.00%	100.00%	100.00%	98.57%	100.00%	100.00%	100%	100%	100%	100%	99%	100%	100%	100%	100%	98.78%	100%	100%
MW-3	100.00%	100.00%	100.00%	100.00%	98.67%	92.40%	93.07%	98.33%	100.00%	100%	91%	92%	100%	98%	100%	100%	98.13%	97.40%	100%
MW-4	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	NS	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%	100%	100%
MW-5	100.00%	100.00%	100.00%	100.00%	95.07%	94.64%	92.86%	95.71%	91.43%	89.29%	94%	89%	100%	96%	97%	96.64%	96.29%	93.57%	100%
MW-6	78.57%	79.31%	85.47%	84.73%	75.37%	54.68%	78.08%	77.29%	72.41%	76.60%	80.79%	80.00%	83.74%	80.44%	84.04%	75.59%	77.18%	78.66%	100%
MW-7	98.64%	90.22%	88.89%	95.11%	94.70%	98.05%	93.28%	92.65%	93.52%	77.25%	78.95%	61.41%	100.00%	83.58%	99.74%	87.65%	91.33%	93.82%	80.0%
MW-8	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MW-9	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MW-10	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MW-11	87.84%	95.27%	92.36%	93.46%	93.73%	92.47%	95.69%	90.95%	89.34%	91.67%	89.44%	88.24%	87.43%	72.57%	86.99%	84.95%	79.83%	77.21%	89.5%
MW-12	99.54%	99.53%	98.25%	98.66%	99.26%	99.38%	98.67%	97.85%	99%	99.48%	99.48%	99.53%	99.34%	98.85%	99.08%	99.57%	99.57%	99.38%	99.6%
MW-13	100.00%	100.00%	100.00%	100.00%	99.35%	99.70%	99.35%	98.38%	99.42%	99.70%	99.24%	99.57%	100.00%	99.14%	98.92%	99.33%	99.84%	99.56%	100%
MW-14	91.94%	90.48%	80.95%	79.73%	83.40%	70.83%	90.16%	66.86%	70.86%	73.21%	93.40%	79.87%	95.87%	94.22%	89.21%	89.52%	91.59%	91.78%	90.3%
MW-15	100.00%	99.19%	99.05%	100.00%	99.29%	99.49%	98.07%	98.71%	97.86%	96.60%	99.64%	96.47%	100.00%	99.32%	99.60%	98.89%	98.89%	99.33%	100%
MW-16*	71.05%	63.16%	13.16%	39.47%	29.84%	74.42%	-9.97%	7.84%	16.45%	40.63%	62.32%	70.29%	65.79%	96.66%	98.07%	86.11%	38.42%	26.54%	19.9%
MW-17*	92.57%	73.05%	77.65%	99.10%	72.06%	78.74%	NS	89.47%	89.47%	71.50%	78.56%	66.52%	63.58%	73.67%	98.40%	80.91%	66.17%	72.60%	78.4%
MW-18*	100.00%	83.65%	96.04%	100.00%	96.26%	95.59%	94.06%	97.56%	95.96%	96.02%	99.03%	95.52%	100.00%	99.42%	99.81%	62.50%	99.21%	99.29%	100%
MW-19 R*	100.00%	100.00%	100.00%	100.00%	100.00%	97.8%	96.80%	97.9%	97.93%	97.57%	96.43%	97.43%	100.00%	98.14%	98.64%	98.00%	95.71%	Not Sampled	Not Sampled
MW-20**	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100%	100%	97.94%	100%	95%	100.00%	98%	99%	100%	100%	100%	100%
MW-21**	96.3%	94.7%	98.7%	98.81%	96.3%	94.2%	98.54%	98.2%	96.5%	95.61%	98.72%	92.65%	97.48%	98.65%	94.61%	94.38%	95.80%	Not Sampled	Not Sampled
* Well installed 2003																			
** Well Installed 2004																			
Site-Wide reduction:	91.81%	89.65%	88.21%	91.93%	86.60%	86.28%	86.83%	88.47%	84.88%	88.11%	87.65%	88.44%	88.59%	88.48%	91.11%	86.8%	87.42%	83.6%	85.1%
Sentry Well Reduction:	100.00%	100.00%	100.00%	100.00%	100.00%	99.27%	98%	99%	99.31%	98.50%	98.81%	97.42%	100%	98.76%	99.10%	99.33%	99%	100.00%	100.00%
Impacted Groundwater Plume Area Only:	82.59%	80.14%	80.56%	86.54%	75.57%	70.39%	83.57%	83.00%	73.10%	79.20%	74.9%	78.4%	74.64%	71.41%	75.61%	72.11%	78.21%	71.5%	74.6%

Monitoring Well	% Reduction 2002 to Aug 2018	% Reduction 2002 to May 2018	% Reduction 2002 to April 2018	% Reduction 2002 to Nov 2017	% Reduction 2002 to Aug 2017	% Reduction 2002 to Nov 2016	% Reduction 2002 to Sep 2016	% Reduction 2002 to Jun 2016	% Reduction 2002 to Nov 2015	% Reduction 2002 to Aug 2015	% Reduction 2002 to Jun 2015	% Reduction 2002 to Mar 2015	% Reduction 2002 to Nov 2014	% Reduction 2002 to Sep 2014	% Reduction 2002 to Jun 2014	% Reduction 2002 to Mar 2014	% Reduction 2002 to Dec 2013	% Reduction 2002 to Jul 2013	% Reduction 2002 to Apr 2013
MW-1†	-54.9%	-44.5%	51.3%	-39.90%	-57.6%	-48.0%	-9.1%	24.5%	-99.2%	-91.4%	54.4%	44.0%	60.9%	45.3%	-28.9%	-28.9%	-126.6%	-8.1%	-19.5%
MW-2	100%	100%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-3	100%	100%	100%	100%	100.0%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-4	100%	100%	100%	100%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
MW-5	100%	100%	100%	100%	100.0%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-6	-83.3%	15.4%	15.4%	-84.60%	15.4%	81.3%	70.4%	75.4%	70.4%	76.4%	78.8%	80.0%	72.9%	72.9%	76.4%	76.8%	68.0%	75.6%	77.1%
MW-7	79.3%	100.0%	81.3%	98.70%	93.6%	75.6%	86.2%	81.6%	89.1%	71.1%	87.1%	100.0%	60.0%	57.8%	93.6%	100.0%	100.0%	96.0%	100.0%
MW-8	100%	100%	100%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-9	100%	100%	100%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-10	100%	100%	100%	100%	100.0%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-11	93.9%	89.5%	75.0%	89.20%	99.1%	86.1%	90.4%	88.2%	77.2%	86.4%	90.4%	89.2%	90.3%	91.9%	90.3%	84.7%	81.1%	89.0%	87.7%
MW-12	99.8%	99.2%	99.1%	99.80%	75.0%	99.9%	99.9%	99.9%	99.8%	99.6%	99.2%	99.1%	99.0%	98.4%	98.4%	98.3%	98.6%	98.8%	98.5%
MW-13	100%	100%	100%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
MW-14	92.9%	92.8%	91.1%	87.90%	2.3%	75.9%	68.3%	81.9%	74.3%	69.5%	83.5%	68.6%	78.4%	78.4%	82.9%	76.8%	70.2%	84.4%	77.5%
MW-15	99.1%	100%	100%	100%	99.0%	98.5%	96.7%	98.5%	98.6%	98.1%	98.9%	98.7%	95.6%	95.8%	99.2%	100.0%	99.1%	99.0%	100.0%
MW-16*	80.5%	19.9%	2.3%	2.80%	2.3%	72.7%	60.9%	27.7%	39.5%	74.6%	86.7%	100.0%	89.8%	81.6%	59.0%	53.1%	60.9%	77.9%	36.8%
MW-17*	73.8%	88.9%	99.5%	78*	2.3%	62.9%	54.0%	58.0%	54.5%	59.4%	Not Sampled	66.8%	61.0%	59.4%	66.5%	83.5%	58.5%	50.6%	97.4%
MW-18*	100%	100%	100%	100%	100.0%	97.4%	93.4%	98.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	Not Sampled	100.0%	100.0%
MW-19 R*	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
MW-20**	100%	100%	100%	100%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
MW-21**	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	34.6%	-50.0%	66.5%	23.1%	23.1%	61.5%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled
* Well installed 2003																			
** Well Installed 2004																			
Site-Wide reduction:	78.0%	82.2%	84.2%	67.60%	62.1%	74.1%	68.7%	78.6%	66.2%	69.1%	87.7%	88.2%	85.2%	83.2%	79.8%	80.3%	67.5%	81.8%	81.2%
Sentry Well Reduction:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Impacted Groundwater Plume Area Only:	72.1%	67.6%	76.6%	51.40%	41.1%	66.5%	69.6%	76.0%	58.1%	58.6%	84.6%	80.8%	77.3%	75.0%	72.3%	73.9%	82.2%	73.2%	77.3%

Monitoring Well	% Reduction 2002 to Dec 2012	% Reduction 2002 to Jun 2012	% Reduction 2002 to Mar 2012	% Reduction 2002 to Sep 2011	% Reduction 2002 to Jun 2011	% Reduction 2002 to Mar 2011	% Reduction 2002 to Dec 2010	% Reduction 2002 to Sep 2010	% Reduction 2002 to Jun 2010	% Reduction 2002 to Jan 2010	% Reduction 2002 to Jul 2009	% Reduction 2002 to Feb 2009	% Reduction 2002 to Sep 2008	% Reduction 2002 to Jun 2008	% Reduction 2002 to Mar 2008	% Reduction 2002 to Sept 2007	% Reduction 2002 to May 2007	% Reduction 2002 to Oct 2006	% Reduction 2002 to Nov 2005
MW-1†	-87.5%	31.3%	-15.8%	42.4%	-71.6%	24.1%	26.6%	15.5%	-1.3%	15.8%	-44.2%	11.8%	-12.0%	8.2%	-90.5%	-92.8%	-166.4%	-130.3%	-46.9%
MW-2	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	99.6%	Not Sampled	99.6%	99.6%	99.6%	99.6%	99.6%
MW-3	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	99.3%	84.0%	99.3%	99.3%	99.3%
MW-4	100.00%	100.0%	100.0%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%	97.4%
MW-5	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	99.3%	75.6%	99.3%	99.3%	63.4%
MW-6	75.6%	78.6%	78.9%	75.1%	80.5%	82.0%	79.9%	73.6%	76.4%	81.3%	77.1%	78.4%	72.2%	69.7%	74.1%	57.9%	62.8%	57.4%	42.6%
MW-7	100.0%	66.3%	93.2%	53.5%	84.2%	95.0%	87.1%	64.3%	74.6%	96.6%	52.7%	79.5%	22.7%	45.8%	56.3%	20.0%	26.7%	6.7%	-1.3%
MW-8	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	92.9%	92.9%	Not Sampled	92.9%	92.9%
MW-9	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	97.6%	97.6%	Not Sampled	97.6%	97.6%
MW-10	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	96.2%	96.2%	Not Sampled	96.2%	96.2%
MW-11	83.0%	89.3%	86.7%	89.1%	84.5%	86.6%	87.3%	86.4%	83.5%	83.3%	86.5%	83.0%	90.6%	87.8%	78.0%	91.4%	74.4%	44.0%	76.3%
MW-12	98.9%	99.3%	98.8%	99.3%	98.7%	99.3%	99.3%	99.2%	98.7%	98.1%	99.4%	97.8%	99.5%	98.7%	98.7%	98.4%	96.6%	91.4%	62.2%
MW-13	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	100.0%	Not Sampled	100.0%	99.4%	100.0%	100.0%	100.0%
MW-14	85.1%	87.4%	75.7%	75.5%	66.7%	89.9%	92.3%	87.6%	79.3%	85.9%	87.1%	88.9%	94.3%	87.9%	90.7%	67.2%	66.1%	6.7%	55.6%
MW-15	98.2%	96.4%	99.1%	95.6%	97.8%	99.1%	97.7%	91.5%	96.9%	98.3%	91.1%	99.3%	84.5%	89.4%	97.5%	79.5%	91.7%	79.5%	62.9%
MW-16*	52.6%	88.5%	67.9%	84.0%	39.2%	23.9%	81.0%	93.3%	99.7%	94.2%	42.1%	41.6%	57.4%	43.9%	77.5%	35.0%	-57.9%	-34.7%	-72.1%
MW-17*	46.9%	53.0%	67.9%	44.6%	72.2%	96.7%	94.1%	61.4%	71.3%	97.7%	71.8%	99.5%	10.1%	26.0%	24.7%	-11.5%	4.1%	-24.8%	-24.2%
MW-18*	100.0%	89.6%	98.5%	81.9%	91.3%	96.0%	88.7%	74.4%	82.7%	96.0%	-23.3%	91.8%	-50.0%	27.6%	64.8%	-352.2%	-178.0%	-146.5%	-135.8%
MW-19 R*	75.0%	99.0%	99.0%	99.0%	99.0%	99.0%	99.0%	73.3%	99.0%	99.0%	57.3%	99.0%	-36.7%	-5.7%	99.0%	-120.8%	73.6%	-14.0%	-102.0%
MW-20**	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%	99.4%
MW-21**	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	67.5%	Not Sampled	96.7%	-22.2%	27.1%	94.0%	-13.7%
* Well installed 2003																			
** Well Installed 2004																			
Site-Wide reduction:	71.3%	82.9%	80.7%	79.7%	72.2%	83.7%	86.9%	78.3%	81.4%	87.9%	61.1%	82.1%	56.0%	59.7%	78.5%	32.9%	39.8%	43.4%	35.7%
Sentry Well Reduction:	91.47%	99.47%	99.47%	98.59%	98.59%	98.59%	98.59%	90.03%	98.59%	98.59%	84.69%	98.59%	53.36%	63.69%	98.59%	25.33%	90.13%	60.93%	31.59%
Impacted Groundwater Plume Area Only:	62.5%	75.2%	73.1%	71.9%	64.1%	84.1%	83.0%	72.5%	72.4%	82.1%	65.2%	79.8%	57.7%	64.2%	53.7%	38.8%	32.0%	16.3%	28.4%

Plume Area = MW-1, MW-11, MW-12, MW-14, MW-15, MW-7, MW-17, MW-6

% reduction = percent reduction in total Volatile Organic Compounds (VOCs) since groundwater monitoring was initiated

†Negative values indicate an increase in total VOCs since monitoring commenced in 2002. The percent increase in total groundwater VOCs is shown below for MW-1.

Total VOCs values are not the total VOCs detected. but the sum of TCE. CIS. TRANS. VC. and TCA detected.

Recovery Well	% Reduction 2002 to Dec 2023	% Reduction 2002 to Sep 2023	% Reduction 2002 to May 2023	% Reduction 2002 to March 2023	% Reduction 2002 to December 2022	% Reduction 2002 to September 2022	% Reduction 2002 to June 2022	% Reduction 2002 to March 2022	% Reduction 2002 to November 2021	% Reduction 2002 to September 2021	% Reduction 2002 to March 2021	% Reduction 2002 to November 2020	% Reduction 2002 to July 2020	% Reduction 2002 to Jun 2020	% Reduction 2002 to Feb 2020	% Reduction 2002 to Oct 2019	% Reduction 2002 to Aug 2019	% Reduction 2002 to July 2019	% Reduction 2002 to Nov 2018
DR-1	90.18%	98.74%	95.38%	92.88%	88.25%	97.18%	95.74%	91.71%	92.52%	98.77%	93.93%	98.53%	88.64%	-113.39%	-95.95%	-59.16%	-81.03%	-219.50%	-128.5%
DR-2	93.96%	94.51%	96.16%	95.71%	89.27%	93.57%	95.00%	93.55%	87.45%	91.89%	92.80%	94.43%	94.21%	76.38%	74.91%	66.15%	65.04%	71.60%	60.7%
DR-3	97.29%	95.26%	96.41%	97.22%	95.31%	94.85%	94.16%	94.87%	93.53%	94.19%	95.48%	94.46%	95.73%	46.36%	55.61%	34.62%	33.77%	40.33%	52.1%
DR-4	98.56%	98.57%	99.21%	99.15%	98.41%	98.23%	98.62%	98.36%	98.04%	98.07%	98.19%	97.60%	98.31%	96.45%	96.23%	95.27%	94.58%	95.34%	95.7%
G-1	91.18%	91.00%	93.66%	93.85%	90.11%	83.93%	92.29%	91.33%	90.14%	90.48%	91.58%	81.52%	90.27%	81.27%	75.05%	65.14%	60.81%	74.90%	62.8%
G-2	91.43%	87.01%	93.77%	92.21%	88.42%	91.19%	82.42%	88.22%	86.32%	88.21%	83.28%	90.26%	85.97%	89.10%	93.37%	68.07%	68.24%	75.65%	91.2%
G-3	98.29%	61.29%	65.76%	68.49%	54.62%	54.67%	60.17%	61.85%	53.90%	43.90%	55.90%	41.35%	41.69%	32.42%	16.74%	24.23%	24.23%	23.19%	96.3%
Overall Reduction	94.41%	89.48%	91.48%	91.36%	86.34%	87.66%	88.34%	88.56%	85.99%	86.50%	87.31%	85.45%	84.97%	44.08%	45.14%	42.05%	37.95%	23.07%	47.2%

Recovery Well	% Reduction 2002 to Aug 2018	% Reduction 2002 to May 2018	% Reduction 2002 to April 2018	% Reduction 2002 to Nov 2017	% Reduction 2002 to Aug 2017	% Reduction 2002 to Nov 2016	% Reduction 2002 to Sep 2016	% Reduction 2002 to Jun 2016	% Reduction 2002 to Nov 2015	% Reduction 2002 to Aug 2015	% Reduction 2002 to Jun 2015	% Reduction 2002 to Mar 2015	% Reduction 2002 to Nov 2014	% Reduction 2002 to Sep 2014	% Reduction 2002 to Jun 2014	% Reduction 2002 to Mar 2014	% Reduction 2002 to Dec 2013	% Reduction 2002 to Jul 2013	% Reduction 2002 to Apr 2013
DR-1	-163.3%	-130.0%	-86.6%	-243.6%	-243.6%	-7.6%	-6.4%	-58.7%	44.4%	72.1%	Not Sampled	96.2%	89.0%	90.4%	86.9%	77.0%	84.8%	99.1%	99.0%
DR-2	70.5%	76.7%	76%	63.8%	63.8%	75.1%	60.3%	60.9%	63.8%	66.0%	47.0%	52.8%	70.5%	59.2%	58.0%	62.3%	45.0%	87.2%	85.4%
DR-3	43.0%	17.8%	78%	68.5%	Not Sampled	35.7%	-1.0%	59.3%	70.5%	50.2%	45.6%	63.9%	-18.7%	-37.7%	45.6%	41.6%	19.3%	95.8%	95.1%
DR-4	94.4%	96.4%	96%	93.9%	93.9%	90.8%	88.9%	92.7%	89.1%	87.2%	91.7%	82.9%	81.8%	82.8%	88.8%	92.5%	90.8%	95.5%	97.9%
G-1	61.7%	80.1%	80%	74.1%	74.1%	57.7%	47.4%	92.7%	60.0%	100.0%	66.1%	27.3%	49.8%	47.7%	55.0%	61.3%	65.6%	87.3%	89.8%
G-2	76.0%	82.4%	84%	100.0%	Not Sampled	Not Sampled	100.0%	Not Sampled	Not Sampled	90.1%	Not Sampled	83.1%	88.0%	86.9%	81.7%	95.1%	71.4%	79.0%	87.0%
G-3	20.1%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	27.3%	-0.2%	-4.2%	35.0%	8.2%	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	79.7%	NA	NA	NA
Overall Reduction	28.9%	37.2%	54.6%	60.4%	40.4%	46.5%	41.3%	40.4%	60.4%	67.7%	62.6%	67.7%	60.1%	54.9%	69.3%	72.8%	62.8%	90.7%	92.3%

Recovery Well	% Reduction 2002 to Dec 2012	% Reduction 2002 to Jun 2012	% Reduction 2002 to Mar 2012	% Reduction 2002 to Sep 2011	% Reduction 2002 to Jun 2011	% Reduction 2002 to Mar 2011	% Reduction 2002 to Dec 2010	% Reduction 2002 to Sep 2010	% Reduction 2002 to Jun 2010	% Reduction 2002 to Jan 2010	% Reduction 2002 to Jul 2009	% Reduction 2002 to Feb 2009	% Reduction 2002 to Sep 2008	% Reduction 2002 to Jun 2008	% Reduction 2002 to Mar 2008	% Reduction Feb 2005 to Sept 2007	% Reduction Feb 2005 to May 2007	% Reduction Feb 2005 to Oct 2006
DR-1	99.5%	99.8%	91.6%	97.9%	98.1%	96.9%	95.6%	94.5%	99.2%	98.0%	95.1%	96.8%	91.0%	89.2%	93.4%	74.5%	86.2%	92.8%
DR-2	99.1%	88.5%	83.9%	89.7%	88.0%	86.6%	92.4%	89.3%	87.3%	90.6%	90.1%	88.8%	89.7%	85.8%	92.3%	85.6%	82.5%	72.6%
DR-3	97.2%	92.1%	98.3%	95.0%	95.4%	98.3%	98.0%	97.4%	94.6%	91.6%	91.5%	88.7%	94.9%	91.7%	88.4%	73.8%	87.6%	89.7%
DR-4	94.9%	93.1%	100.0%	89.2%	92.7%	94.3%	95.9%	86.9%	91.2%	95.4%	95.5%	96.2%	92.7%	97.7%	97.6%	87.7%	99.1%	51.4%
G-1	90.3%	87.4%	88.0%	87.6%	89.8%	87.7%	91.0%	94.4%	80.1%	76.0%	69.9%	76.7%	77.9%	68.7%	65.8%	58.7%	71.8%	63.1%
G-2	65.7%	80.4%	89.1%	92.3%	83.0%	87.7%	86.5%	98.4%	97.8%	98.5%	85.4%	40.0%	92.6%	89.8%	79.0%	84.6%	54.5%	26.4%
G-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Overall Reduction	91.1%	90.2%	91.8%	91.9%	91.1%	91.9%	93.2%	93.5%	91.7%	91.7%	87.9%	81.2%	89.8%	87.2%	86.1%	77.5%	80.3%	66.0%

*Sampling of recovery wells initiated in 2005

Total VOCs values are not the total VOCs detected. but the sum of TCE. CIS. TRANS. VC. and TCA detected.

TABLE 5

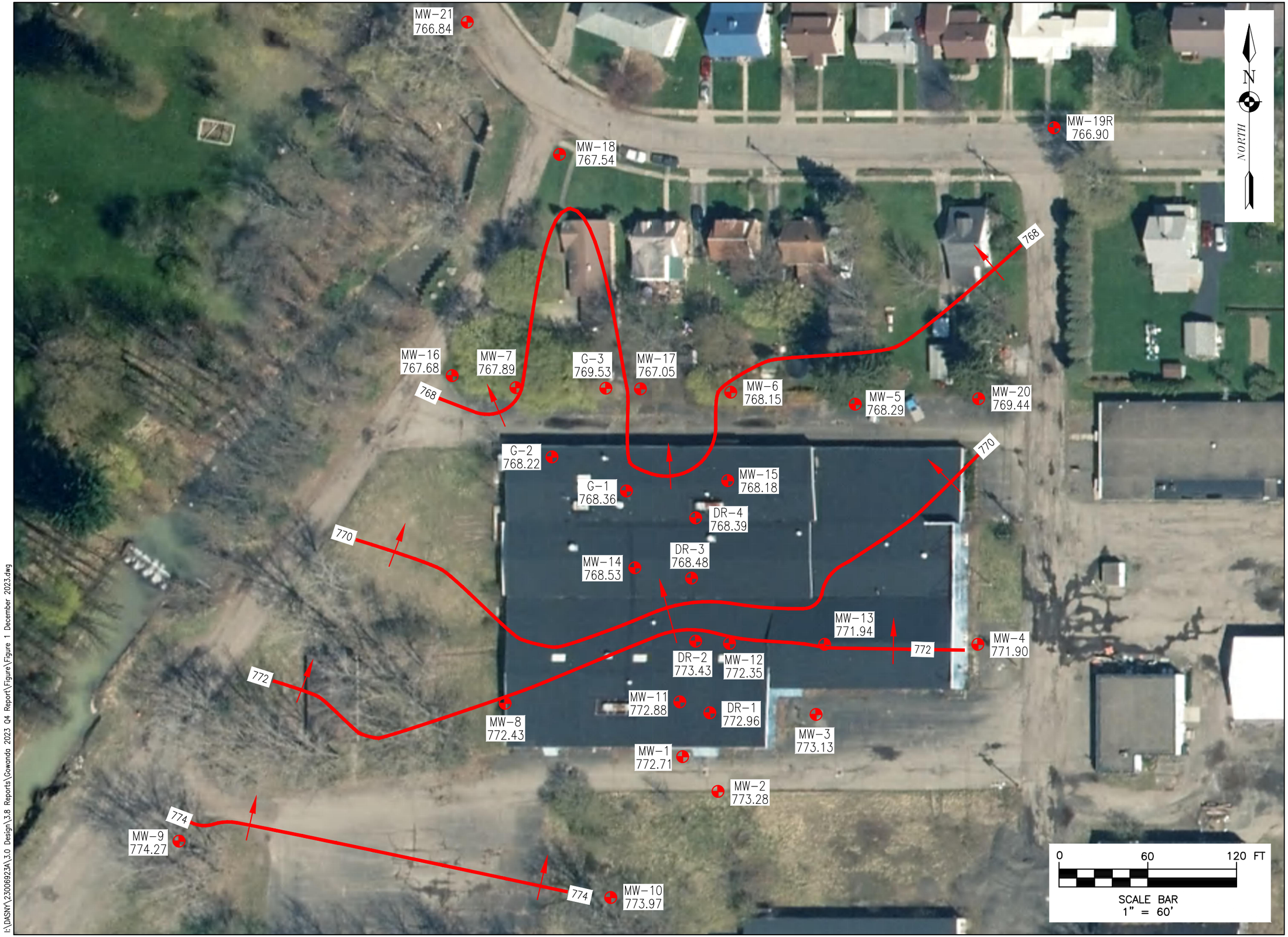
Samples Received by ALS on 08-Dec-23																				
LOCATION		NYS Groundwater			MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8	
SAMPLING DATE		Standard Value	Guidance Value	Units	8-Dec-23		7-Dec-23		7-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23	
Lab Sample ID						Units		Units		Units		Units		Units		Units		Units		Units
SAMPLE QUALIFIER																				
PARAMETER	**PRODUCT**																			
Methylene chloride	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethane	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroform	NYTCL-8260-R2	7.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.0	ug/l	<5.00	ug/l
Carbon tetrachloride	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloropropane	NYTCL-8260-R2	1	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dibromochloromethane	NYTCL-8260-R2	-	50	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.0	ug/l	<5.00	ug/l
1,1,2-Trichloroethane	NYTCL-8260-R2	1	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Tetrachloroethene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chlorobenzene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichlorofluoromethane	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloroethane	NYTCL-8260-R2	0.6	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,1-Trichloroethane	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromodichloromethane	NYTCL-8260-R2	-	50	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,3-Dichloropropene	NYTCL-8260-R2	0.4	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,3-Dichloropropene	NYTCL-8260-R2	-	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.0	ug/l	<5.00	ug/l
Bromoform	NYTCL-8260-R2	-	50	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,2,2-Tetrachloroethane	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Benzene	NYTCL-8260-R2	1	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Toluene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Ethylbenzene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloromethane	NYTCL-8260-R2	-	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.0	ug/l	<5.00	ug/l
Bromomethane	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Vinyl chloride	NYTCL-8260-R2	2.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	**52.00**	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroethane	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,2-Dichloroethene	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichloroethene	NYTCL-8260-R2	5.0	-	ug/l	**580.00**	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichlorobenzene	NYTCL-8260-R2	3	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,3-Dichlorobenzene	NYTCL-8260-R2	3	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,4-Dichlorobenzene	NYTCL-8260-R2	3	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl tert butyl ether	NYTCL-8260-R2	-	10	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
p/m-Xylene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
o-Xylene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,2-Dichloroethene	NYTCL-8260-R2	5.0	-	ug/l	**99.00**	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	**35.00**	ug/l	**6.10**	ug/l	<5.00	ug/l
Styrene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dichlorodifluoromethane	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.0	ug/l	<5.00	ug/l
Acetone	NYTCL-8260-R2	-	50	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Carbon disulfide	NYTCL-8260-R2	-	60	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Butanone	NYTCL-8260-R2	-	50	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
4-Methyl-2-pentanone	NYTCL-8260-R2	-	-	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Hexanone	NYTCL-8260-R2	-	50	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Bromochloromethane	NYTCL-8260-R2	5.0	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromoethane	NYTCL-8260-R2	0.0006	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromo-3-chloropropane	NYTCL-8260-R2	0.04	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Isopropylbenzene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,3-Trichlorobenzene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,4-Trichlorobenzene	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl Acetate	NYTCL-8260-R2	-	-	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Cyclohexane	NYTCL-8260-R2	-	-	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.	ug/l	<10.00	ug/l
1,4-Dioxane	NYTCL-8260-R2	-	-	ug/l	<500.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l
Freon-113	NYTCL-8260-R2	5	-	ug/l	<25.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl cyclohexane	NYTCL-8260-R2	-	-	ug/l	<50.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l

LOCATION	MW-9		MW-10		MW-11		MW-12		MW-13		MW-14		MW-15		MW-16	
SAMPLING DATE	8-Dec-23		8-Dec-23		7-Dec-23		7-Dec-23		7-Dec-23		7-Dec-23		7-Dec-23		8-Dec-23	
Lab Sample ID		Units		Units		Units		Units		Units		Units		Units		Units
SAMPLE QUALIFIER																
PARAMETER																
Methylene chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Carbon tetrachloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dibromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,2-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Tetrachloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichlorofluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,1-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromodichloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromoform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,2,2-Tetrachloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Benzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Toluene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Ethylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromomethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Vinyl chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,2-Dichloroethene	<5.00	ug/l	<5.00	ug/l	**15.00**	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichloroethene	<5.00	ug/l	<5.00	ug/l	**350.00**	ug/l	**22.00**	ug/l	<5.00	ug/l	**18.00**	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,3-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,4-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl tert butyl ether	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
p/m-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
o-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,2-Dichloroethene	<5.00	ug/l	<5.00	ug/l	**200.00**	ug/l	**36.00**	ug/l	<5.00	ug/l	**7.40**	ug/l	<5.00	ug/l	**11.00**	ug/l
Styrene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dichlorodifluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Acetone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Carbon disulfide	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Butanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
4-Methyl-2-pentanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Hexanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Bromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromoethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromo-3-chloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Isopropylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,3-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,4-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl Acetate	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
1,4-Dioxane	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l
Freon-113	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l

LOCATION	MW-17		MW-18		MW-19R		MW-20		MW-21		DR-1		DR-2		DR-3		DR-4	
SAMPLING DATE	8-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23		7-Dec-23		7-Dec-23		7-Dec-23		7-Dec-23	
Lab Sample ID		Units		Units		Units		Units		Units		Units		Units		Units		Units
SAMPLE QUALIFIER																		
PARAMETER																		
Methylene chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Carbon tetrachloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dibromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,2-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Tetrachloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichlorofluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,1-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromodichloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromoform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1,2,2-Tetrachloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Benzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Toluene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Ethylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Bromomethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Vinyl chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Chloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,1-Dichloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
trans-1,2-Dichloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Trichloroethene	**6.20**	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	**730.00**	ug/l	**22.00**	ug/l	**28.00**	ug/l	**18.00**	ug/l
1,2-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,3-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,4-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl tert butyl ether	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
p/m-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
o-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
cis-1,2-Dichloroethene	**54.00**	ug/l	<5.0	ug/l	<5.00	ug/l	<5.00	ug/l	**16.00**	ug/l	**56.00**	ug/l	**99.00**	ug/l	**12.00**	ug/l	**7.5**	ug/l
Styrene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Dichlorodifluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Acetone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Carbon disulfide	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Butanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
4-Methyl-2-pentanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
2-Hexanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Bromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromoethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2-Dibromo-3-chloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Isopropylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,3-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
1,2,4-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl Acetate	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
Cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l
1,4-Dioxane	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l
Freon-113	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l
Methyl cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l

LOCATION	G-1		G-2		G-3		MW-X		EQUIP. BLANK		TRIP BLANK		
SAMPLING DATE	7-Dec-23		7-Dec-23		7-Dec-23		8-Dec-23		8-Dec-23		8-Dec-23		
Lab Sample ID		Units		Units		Units		Units		Units		Units	
SAMPLE QUALIFIER													
PARAMETER													**PARAMETER**
Methylene chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Methylene chloride
1,1-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,1-Dichloroethane
Chloroform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Chloroform
Carbon tetrachloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Carbon tetrachloride
1,2-Dichloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2-Dichloropropane
Dibromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Dibromochloromethane
1,1,2-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,1,2-Trichloroethane
Tetrachloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Tetrachloroethene
Chlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Chlorobenzene
Trichlorofluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Trichlorofluoromethane
1,2-Dichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2-Dichloroethane
1,1,1-Trichloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,1,1-Trichloroethane
Bromodichloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Bromodichloromethane
trans-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	trans-1,3-Dichloropropene
cis-1,3-Dichloropropene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	cis-1,3-Dichloropropene
Bromoform	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Bromoform
1,1,2,2-Tetrachloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,1,2,2-Tetrachloroethane
Benzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Benzene
Toluene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Toluene
Ethylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Ethylbenzene
Chloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Chloromethane
Bromomethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Bromomethane
Vinyl chloride	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Vinyl chloride
Chloroethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Chloroethane
1,1-Dichloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,1-Dichloroethene
trans-1,2-Dichloroethene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	trans-1,2-Dichloroethene
Trichloroethene	<5.0	ug/l	<5.00	ug/l	**6.90**	ug/l	**570.00 D**	ug/l	<5.00	ug/l	<5.00	ug/l	Trichloroethene
1,2-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2-Dichlorobenzene
1,3-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,3-Dichlorobenzene
1,4-Dichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,4-Dichlorobenzene
Methyl tert butyl ether	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Methyl tert butyl ether
p/m-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	p/m-Xylene
o-Xylene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	o-Xylene
cis-1,2-Dichloroethene	**48.00**	ug/l	**33.00**	ug/l	<5.00	ug/l	**100.00**	ug/l	<5.00	ug/l	<5.00	ug/l	cis-1,2-Dichloroethene
Styrene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Styrene
Dichlorodifluoromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Dichlorodifluoromethane
Acetone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	Acetone
Carbon disulfide	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	Carbon disulfide
2-Butanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	2-Butanone
4-Methyl-2-pentanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.0	ug/l	<10.00	ug/l	4-Methyl-2-pentanone
2-Hexanone	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	2-Hexanone
Bromochloromethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Bromochloromethane
1,2-Dibromoethane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2-Dibromoethane
1,2-Dibromo-3-chloropropane	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2-Dibromo-3-chloropropane
Isopropylbenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Isopropylbenzene
1,2,3-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	1,2,4-Trichlorobenzene
Methyl Acetate	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	Methyl Acetate
Cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	Cyclohexane
1,4-Dioxane	<100.00	ug/l	<100.00	ug/l	<100.00	ug/l	<250.00	ug/l	<100.00	ug/l	<100.00	ug/l	1,4-Dioxane
Freon-113	<5.00	ug/l	<5.00	ug/l	<5.00	ug/l	<13.00	ug/l	<5.00	ug/l	<5.00	ug/l	Freon-113
Methyl cyclohexane	<10.00	ug/l	<10.00	ug/l	<10.00	ug/l	<25.00	ug/l	<10.00	ug/l	<10.00	ug/l	Methyl cyclohexane

FIGURES



t:\DASNY\23006923A\3.0 Design\3.8 Reports\Gowanda 2023 Q4 Report\Figure\Figure 1 December 2023.dwg

DASNY
Gowanda Day Habilitation Center

4 Industrial Place
Gowanda, New York

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, D.P.C.
280 East Broad Street
Suite 200
Rochester, NY 14604

office: 585.232.5135
fax: 585.232.4652

www.bergmannpc.com

REVISIONS

NO.	DATE	DESCRIPTION	REV.	CK'D

Project Manager: J. O'BRIEN	Checked By: J. O'BRIEN
Designed By:	Drawn By: C. WOOD
Date Issued: 02/20/2024	Scale: 1" = 60'
Project Number: 23006923A	

DECEMBER 2023 WATER LEVEL CONTOUR MAP

Drawing Number:

FIGURE 1

DASNY

Gowanda Day Habilitation Center

4 Industrial Place
Gowanda, NY

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Figure 2

December 2023 Distribution of Groundwater Analytical Results: Monitoring Wells

DASNY

Gowanda Day Habilitation Center

4 Industrial Place
Gowanda, NY

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

Figure 3

December 2023 Distribution of Groundwater Analytical Results: Recovery Wells

0 25 50 75 100
Feet

N

CHARTS

Chart 1
Gowanda Site V00463

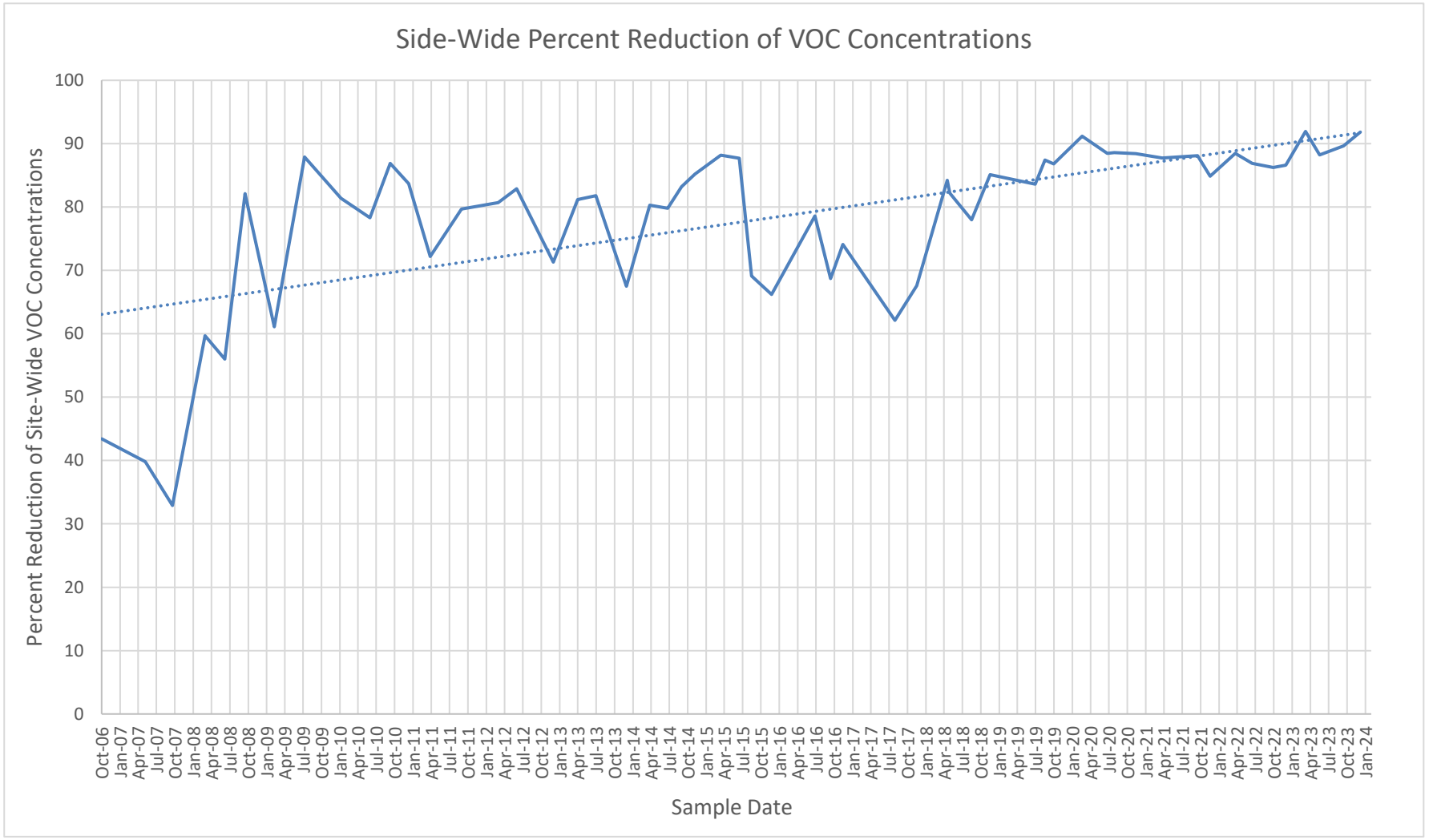
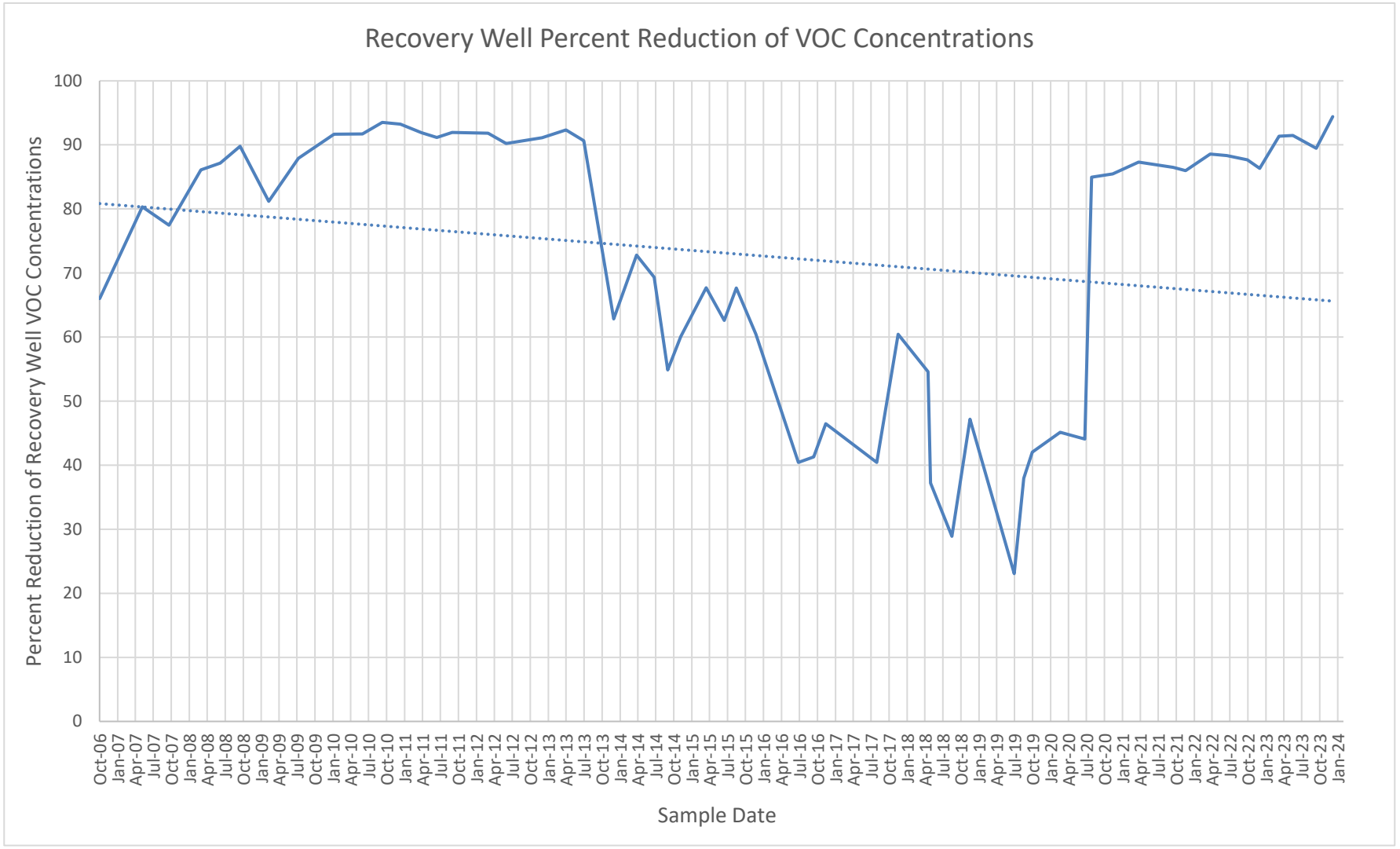


Chart 2
Gowanda Site V00463



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LABORATORY ANALYTICAL RESULTS

December 18, 2023 Service Request No:R2311417

Ariadna Cheremeteff
Colliers Engineering & Design
280 East Broad Street
Suite 200
Rochester, NY 14604

Laboratory Results for: Gowanda

Dear Ariadna,

Enclosed are the results of the sample(s) submitted to our laboratory December 08, 2023
For your reference, these analyses have been assigned our service request number **R2311417.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Service Request: R2311417
Project: Gowanda
Date Received: 12/08/2023
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Eleven water samples were received for analysis at ALS Environmental on 12/08/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, R2311417-011: Analysis was performed on a sample with headspace. Headspace-free sample was not available.

Approved by _____ Date 12/18/2023

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-1			Lab ID: R2311417-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	99			25	ug/L	8260C
Trichloroethene (TCE)	580			25	ug/L	8260C

CLIENT ID: MW-6			Lab ID: R2311417-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	35			5.0	ug/L	8260C
Vinyl Chloride	52			5.0	ug/L	8260C

CLIENT ID: MW-7			Lab ID: R2311417-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	6.1			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:**R2311417
Project: Gowanda/6974.96

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2311417-001	MW-1	12/8/2023	0740
R2311417-002	MW-2	12/7/2023	1605
R2311417-003	MW-3	12/7/2023	1540
R2311417-004	MW-4	12/8/2023	0710
R2311417-005	MW-5	12/8/2023	
R2311417-006	MW-6	12/8/2023	1005
R2311417-007	MW-7	12/8/2023	0830
R2311417-008	MW-8	12/8/2023	0620
R2311417-009	MW-9	12/8/2023	0648
R2311417-010	MW-10	12/8/2023	0810
R2311417-011	Trip Blank	12/8/2023	

Chain of Custody / Analytical Request Form

75664

SR#:

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Page 1 of 2

Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: Colliers Engineering + Design	Project Name: Gowanda 04 2023
Contact: Justin LaBarr	Project Number: 230069.24A
Email: JUSTIN.LABARR@COLLIERSENG.COM	ALS Quote #: 23-0013
Phone: 607-743-1412	Sampler's Signature:
Address: 280 E Broad St #200 Rochester NY 14604	Email CC:
	Email CC:
	State Samples Collected (Circle or Write): (NY) MA, PA, CT, Other:

Preservative: GW, WW, SW, DW, S, L, NA

Lab ID (ALS)	Sample Collection Information: Sample ID:	Date	Time	Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	MW-1	12/8/23	0740		3		✓							
	MW-2	12/7/23	1605		3		✓							
	MW-3	12/7/23	1540		3		✓							
	MW-4	12/8/23	0710		3		✓							
	MW-5	12/8/23			3		✓							
	MW-6	12/8/23	1005		3		✓							
	MW-7	12/8/23	0830		3		✓							
	MW-8	12/8/23	0620		3		✓							
	MW-9	12/8/23	0648		3		✓							
	MW-10	12/8/23	0810		3		✓							

Preservative: 0. None, 1. HCl, 2. HNO3, 3. H2SO4, 4. NAOH, 5. Zn Acet., 6. MeOH, 7. NaHSO4, 8. Other

Special Instructions / Comments:

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
_X_ Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
____Tier IV/Cat B - Data Validation Report w/. Data
EDD: X Yes ____No
EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (□ Same as Report To)

PO #:
Company:
Contact:
Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	Justin LaBarr	Brandy Dill				
Company	CED	ALS				
Date/Time	12/8/23 1438	12/8/23 1436				

R2311417 5
Colliers Engineering & Design
Gowanda

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservati

R2311417 5
Colliers Engineering & Design
Gowanda

Project/Client _____ Folder Number _____

Cooler received on 12/8/23 by: RR **COURIER:** ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 12/8/23 Time: 1455 ID: IR#12 (IR#11) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	13.0						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted (Poorly Packed (described below)) (Same Day Rule)

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by RR on 12/8 at 1457
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/12/23 Time: 0916 by: RR

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO)
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? YES NO (N/A)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	24001661	4/26				

Bottle lot numbers: 103023 -34XH
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96		

Sample Name:	MW-1	**Date Collected:**	12/8/23
Lab Code:	R2311417-001	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-2	**Date Collected:**	12/7/23
Lab Code:	R2311417-002	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-3	**Date Collected:**	12/7/23
Lab Code:	R2311417-003	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-4	**Date Collected:**	12/8/23
Lab Code:	R2311417-004	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-5	**Date Collected:**	12/8/23
Lab Code:	R2311417-005	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96		

Sample Name:	MW-6	**Date Collected:**	12/8/23
Lab Code:	R2311417-006	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-7	**Date Collected:**	12/8/23
Lab Code:	R2311417-007	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-8	**Date Collected:**	12/8/23
Lab Code:	R2311417-008	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-9	**Date Collected:**	12/8/23
Lab Code:	R2311417-009	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-10	**Date Collected:**	12/8/23
Lab Code:	R2311417-010	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96		

Sample Name:	Trip Blank	**Date Collected:**	12/8/23
Lab Code:	R2311417-011	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 07:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2311417-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	5	12/14/23 19:46	
1,1,2,2-Tetrachloroethane	25 U	25	5	12/14/23 19:46	
1,1,2-Trichloroethane	25 U	25	5	12/14/23 19:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	25 U	25	5	12/14/23 19:46	
1,1-Dichloroethane (1,1-DCA)	25 U	25	5	12/14/23 19:46	
1,1-Dichloroethene (1,1-DCE)	25 U	25	5	12/14/23 19:46	
1,2,3-Trichlorobenzene	25 U	25	5	12/14/23 19:46	
1,2,4-Trichlorobenzene	25 U	25	5	12/14/23 19:46	
1,2-Dibromo-3-chloropropane (DBCP)	25 U	25	5	12/14/23 19:46	
1,2-Dibromoethane	25 U	25	5	12/14/23 19:46	
1,2-Dichlorobenzene	25 U	25	5	12/14/23 19:46	
1,2-Dichloroethane	25 U	25	5	12/14/23 19:46	
1,2-Dichloropropane	25 U	25	5	12/14/23 19:46	
1,3-Dichlorobenzene	25 U	25	5	12/14/23 19:46	
1,4-Dichlorobenzene	25 U	25	5	12/14/23 19:46	
1,4-Dioxane	500 U	500	5	12/14/23 19:46	
2-Butanone (MEK)	50 U	50	5	12/14/23 19:46	
2-Hexanone	50 U	50	5	12/14/23 19:46	
4-Methyl-2-pentanone	50 U	50	5	12/14/23 19:46	
Acetone	50 U	50	5	12/14/23 19:46	
Benzene	25 U	25	5	12/14/23 19:46	
Bromochloromethane	25 U	25	5	12/14/23 19:46	
Bromodichloromethane	25 U	25	5	12/14/23 19:46	
Bromoform	25 U	25	5	12/14/23 19:46	
Bromomethane	25 U	25	5	12/14/23 19:46	
Carbon Disulfide	50 U	50	5	12/14/23 19:46	
Carbon Tetrachloride	25 U	25	5	12/14/23 19:46	
Chlorobenzene	25 U	25	5	12/14/23 19:46	
Chloroethane	25 U	25	5	12/14/23 19:46	
Chloroform	25 U	25	5	12/14/23 19:46	
Chloromethane	25 U	25	5	12/14/23 19:46	
Cyclohexane	50 U	50	5	12/14/23 19:46	
Dibromochloromethane	25 U	25	5	12/14/23 19:46	
Dichlorodifluoromethane (CFC 12)	25 U	25	5	12/14/23 19:46	
Dichloromethane	25 U	25	5	12/14/23 19:46	
Ethylbenzene	25 U	25	5	12/14/23 19:46	
Isopropylbenzene (Cumene)	25 U	25	5	12/14/23 19:46	
Methyl Acetate	50 U	50	5	12/14/23 19:46	
Methyl tert-Butyl Ether	25 U	25	5	12/14/23 19:46	
Methylcyclohexane	50 U	50	5	12/14/23 19:46	
Styrene	25 U	25	5	12/14/23 19:46	
Tetrachloroethene (PCE)	25 U	25	5	12/14/23 19:46	
Toluene	25 U	25	5	12/14/23 19:46	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 07:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2311417-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**580**	25	5	12/14/23 19:46	
Trichlorofluoromethane (CFC 11)	25 U	25	5	12/14/23 19:46	
Vinyl Chloride	25 U	25	5	12/14/23 19:46	
cis-1,2-Dichloroethene	**99**	25	5	12/14/23 19:46	
cis-1,3-Dichloropropene	25 U	25	5	12/14/23 19:46	
m,p-Xylenes	25 U	25	5	12/14/23 19:46	
o-Xylene	25 U	25	5	12/14/23 19:46	
trans-1,2-Dichloroethene	25 U	25	5	12/14/23 19:46	
trans-1,3-Dichloropropene	25 U	25	5	12/14/23 19:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	12/14/23 19:46	
Dibromofluoromethane	98	80 - 116	12/14/23 19:46	
Toluene-d8	101	87 - 121	12/14/23 19:46	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 16:05
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2311417-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 16:22	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 16:22	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 16:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 16:22	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 16:22	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 16:22	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 16:22	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 16:22	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 16:22	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 16:22	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
1,4-Dioxane	100 U	100	1	12/14/23 16:22	
2-Butanone (MEK)	10 U	10	1	12/14/23 16:22	
2-Hexanone	10 U	10	1	12/14/23 16:22	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 16:22	
Acetone	10 U	10	1	12/14/23 16:22	
Benzene	5.0 U	5.0	1	12/14/23 16:22	
Bromochloromethane	5.0 U	5.0	1	12/14/23 16:22	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 16:22	
Bromoform	5.0 U	5.0	1	12/14/23 16:22	
Bromomethane	5.0 U	5.0	1	12/14/23 16:22	
Carbon Disulfide	10 U	10	1	12/14/23 16:22	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 16:22	
Chlorobenzene	5.0 U	5.0	1	12/14/23 16:22	
Chloroethane	5.0 U	5.0	1	12/14/23 16:22	
Chloroform	5.0 U	5.0	1	12/14/23 16:22	
Chloromethane	5.0 U	5.0	1	12/14/23 16:22	
Cyclohexane	10 U	10	1	12/14/23 16:22	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 16:22	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 16:22	
Dichloromethane	5.0 U	5.0	1	12/14/23 16:22	
Ethylbenzene	5.0 U	5.0	1	12/14/23 16:22	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 16:22	
Methyl Acetate	10 U	10	1	12/14/23 16:22	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 16:22	
Methylcyclohexane	10 U	10	1	12/14/23 16:22	
Styrene	5.0 U	5.0	1	12/14/23 16:22	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 16:22	
Toluene	5.0 U	5.0	1	12/14/23 16:22	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 16:05
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2311417-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 16:22	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 16:22	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 16:22	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:22	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:22	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 16:22	
o-Xylene	5.0 U	5.0	1	12/14/23 16:22	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:22	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	12/14/23 16:22	
Dibromofluoromethane	101	80 - 116	12/14/23 16:22	
Toluene-d8	103	87 - 121	12/14/23 16:22	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2311417-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 16:44	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 16:44	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 16:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 16:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 16:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 16:44	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 16:44	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 16:44	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 16:44	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 16:44	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
1,4-Dioxane	100 U	100	1	12/14/23 16:44	
2-Butanone (MEK)	10 U	10	1	12/14/23 16:44	
2-Hexanone	10 U	10	1	12/14/23 16:44	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 16:44	
Acetone	10 U	10	1	12/14/23 16:44	
Benzene	5.0 U	5.0	1	12/14/23 16:44	
Bromochloromethane	5.0 U	5.0	1	12/14/23 16:44	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 16:44	
Bromoform	5.0 U	5.0	1	12/14/23 16:44	
Bromomethane	5.0 U	5.0	1	12/14/23 16:44	
Carbon Disulfide	10 U	10	1	12/14/23 16:44	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 16:44	
Chlorobenzene	5.0 U	5.0	1	12/14/23 16:44	
Chloroethane	5.0 U	5.0	1	12/14/23 16:44	
Chloroform	5.0 U	5.0	1	12/14/23 16:44	
Chloromethane	5.0 U	5.0	1	12/14/23 16:44	
Cyclohexane	10 U	10	1	12/14/23 16:44	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 16:44	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 16:44	
Dichloromethane	5.0 U	5.0	1	12/14/23 16:44	
Ethylbenzene	5.0 U	5.0	1	12/14/23 16:44	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 16:44	
Methyl Acetate	10 U	10	1	12/14/23 16:44	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 16:44	
Methylcyclohexane	10 U	10	1	12/14/23 16:44	
Styrene	5.0 U	5.0	1	12/14/23 16:44	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 16:44	
Toluene	5.0 U	5.0	1	12/14/23 16:44	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2311417-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 16:44	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 16:44	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 16:44	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:44	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:44	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 16:44	
o-Xylene	5.0 U	5.0	1	12/14/23 16:44	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:44	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	12/14/23 16:44	
Dibromofluoromethane	94	80 - 116	12/14/23 16:44	
Toluene-d8	98	87 - 121	12/14/23 16:44	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 07:10
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2311417-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 17:07	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 17:07	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 17:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 17:07	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 17:07	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 17:07	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 17:07	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 17:07	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 17:07	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 17:07	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
1,4-Dioxane	100 U	100	1	12/14/23 17:07	
2-Butanone (MEK)	10 U	10	1	12/14/23 17:07	
2-Hexanone	10 U	10	1	12/14/23 17:07	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 17:07	
Acetone	10 U	10	1	12/14/23 17:07	
Benzene	5.0 U	5.0	1	12/14/23 17:07	
Bromochloromethane	5.0 U	5.0	1	12/14/23 17:07	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 17:07	
Bromoform	5.0 U	5.0	1	12/14/23 17:07	
Bromomethane	5.0 U	5.0	1	12/14/23 17:07	
Carbon Disulfide	10 U	10	1	12/14/23 17:07	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 17:07	
Chlorobenzene	5.0 U	5.0	1	12/14/23 17:07	
Chloroethane	5.0 U	5.0	1	12/14/23 17:07	
Chloroform	5.0 U	5.0	1	12/14/23 17:07	
Chloromethane	5.0 U	5.0	1	12/14/23 17:07	
Cyclohexane	10 U	10	1	12/14/23 17:07	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 17:07	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 17:07	
Dichloromethane	5.0 U	5.0	1	12/14/23 17:07	
Ethylbenzene	5.0 U	5.0	1	12/14/23 17:07	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 17:07	
Methyl Acetate	10 U	10	1	12/14/23 17:07	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 17:07	
Methylcyclohexane	10 U	10	1	12/14/23 17:07	
Styrene	5.0 U	5.0	1	12/14/23 17:07	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 17:07	
Toluene	5.0 U	5.0	1	12/14/23 17:07	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 07:10
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2311417-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 17:07	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 17:07	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 17:07	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:07	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:07	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 17:07	
o-Xylene	5.0 U	5.0	1	12/14/23 17:07	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:07	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	12/14/23 17:07	
Dibromofluoromethane	97	80 - 116	12/14/23 17:07	
Toluene-d8	103	87 - 121	12/14/23 17:07	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2311417-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 17:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 17:30	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 17:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 17:30	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 17:30	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 17:30	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 17:30	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 17:30	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 17:30	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 17:30	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
1,4-Dioxane	100 U	100	1	12/14/23 17:30	
2-Butanone (MEK)	10 U	10	1	12/14/23 17:30	
2-Hexanone	10 U	10	1	12/14/23 17:30	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 17:30	
Acetone	10 U	10	1	12/14/23 17:30	
Benzene	5.0 U	5.0	1	12/14/23 17:30	
Bromochloromethane	5.0 U	5.0	1	12/14/23 17:30	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 17:30	
Bromoform	5.0 U	5.0	1	12/14/23 17:30	
Bromomethane	5.0 U	5.0	1	12/14/23 17:30	
Carbon Disulfide	10 U	10	1	12/14/23 17:30	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 17:30	
Chlorobenzene	5.0 U	5.0	1	12/14/23 17:30	
Chloroethane	5.0 U	5.0	1	12/14/23 17:30	
Chloroform	5.0 U	5.0	1	12/14/23 17:30	
Chloromethane	5.0 U	5.0	1	12/14/23 17:30	
Cyclohexane	10 U	10	1	12/14/23 17:30	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 17:30	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 17:30	
Dichloromethane	5.0 U	5.0	1	12/14/23 17:30	
Ethylbenzene	5.0 U	5.0	1	12/14/23 17:30	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 17:30	
Methyl Acetate	10 U	10	1	12/14/23 17:30	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 17:30	
Methylcyclohexane	10 U	10	1	12/14/23 17:30	
Styrene	5.0 U	5.0	1	12/14/23 17:30	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 17:30	
Toluene	5.0 U	5.0	1	12/14/23 17:30	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2311417-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 17:30	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 17:30	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 17:30	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:30	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:30	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 17:30	
o-Xylene	5.0 U	5.0	1	12/14/23 17:30	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:30	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	12/14/23 17:30	
Dibromofluoromethane	95	80 - 116	12/14/23 17:30	
Toluene-d8	100	87 - 121	12/14/23 17:30	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:05
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-6	**Units:**	ug/L
Lab Code:	R2311417-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 17:52	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 17:52	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 17:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 17:52	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 17:52	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 17:52	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 17:52	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 17:52	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 17:52	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 17:52	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
1,4-Dioxane	100 U	100	1	12/14/23 17:52	
2-Butanone (MEK)	10 U	10	1	12/14/23 17:52	
2-Hexanone	10 U	10	1	12/14/23 17:52	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 17:52	
Acetone	10 U	10	1	12/14/23 17:52	
Benzene	5.0 U	5.0	1	12/14/23 17:52	
Bromochloromethane	5.0 U	5.0	1	12/14/23 17:52	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 17:52	
Bromoform	5.0 U	5.0	1	12/14/23 17:52	
Bromomethane	5.0 U	5.0	1	12/14/23 17:52	
Carbon Disulfide	10 U	10	1	12/14/23 17:52	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 17:52	
Chlorobenzene	5.0 U	5.0	1	12/14/23 17:52	
Chloroethane	5.0 U	5.0	1	12/14/23 17:52	
Chloroform	5.0 U	5.0	1	12/14/23 17:52	
Chloromethane	5.0 U	5.0	1	12/14/23 17:52	
Cyclohexane	10 U	10	1	12/14/23 17:52	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 17:52	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 17:52	
Dichloromethane	5.0 U	5.0	1	12/14/23 17:52	
Ethylbenzene	5.0 U	5.0	1	12/14/23 17:52	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 17:52	
Methyl Acetate	10 U	10	1	12/14/23 17:52	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 17:52	
Methylcyclohexane	10 U	10	1	12/14/23 17:52	
Styrene	5.0 U	5.0	1	12/14/23 17:52	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 17:52	
Toluene	5.0 U	5.0	1	12/14/23 17:52	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:05
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-6	**Units:**	ug/L
Lab Code:	R2311417-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 17:52	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 17:52	
Vinyl Chloride	**52**	5.0	1	12/14/23 17:52	
cis-1,2-Dichloroethene	**35**	5.0	1	12/14/23 17:52	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:52	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 17:52	
o-Xylene	5.0 U	5.0	1	12/14/23 17:52	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:52	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/14/23 17:52	
Dibromofluoromethane	98	80 - 116	12/14/23 17:52	
Toluene-d8	100	87 - 121	12/14/23 17:52	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:30
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R2311417-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 18:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 18:15	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 18:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 18:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 18:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 18:15	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 18:15	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 18:15	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 18:15	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 18:15	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
1,4-Dioxane	100 U	100	1	12/14/23 18:15	
2-Butanone (MEK)	10 U	10	1	12/14/23 18:15	
2-Hexanone	10 U	10	1	12/14/23 18:15	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 18:15	
Acetone	10 U	10	1	12/14/23 18:15	
Benzene	5.0 U	5.0	1	12/14/23 18:15	
Bromochloromethane	5.0 U	5.0	1	12/14/23 18:15	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 18:15	
Bromoform	5.0 U	5.0	1	12/14/23 18:15	
Bromomethane	5.0 U	5.0	1	12/14/23 18:15	
Carbon Disulfide	10 U	10	1	12/14/23 18:15	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 18:15	
Chlorobenzene	5.0 U	5.0	1	12/14/23 18:15	
Chloroethane	5.0 U	5.0	1	12/14/23 18:15	
Chloroform	5.0 U	5.0	1	12/14/23 18:15	
Chloromethane	5.0 U	5.0	1	12/14/23 18:15	
Cyclohexane	10 U	10	1	12/14/23 18:15	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 18:15	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 18:15	
Dichloromethane	5.0 U	5.0	1	12/14/23 18:15	
Ethylbenzene	5.0 U	5.0	1	12/14/23 18:15	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 18:15	
Methyl Acetate	10 U	10	1	12/14/23 18:15	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 18:15	
Methylcyclohexane	10 U	10	1	12/14/23 18:15	
Styrene	5.0 U	5.0	1	12/14/23 18:15	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 18:15	
Toluene	5.0 U	5.0	1	12/14/23 18:15	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:30
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R2311417-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 18:15	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 18:15	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 18:15	
cis-1,2-Dichloroethene	**6.1**	5.0	1	12/14/23 18:15	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:15	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 18:15	
o-Xylene	5.0 U	5.0	1	12/14/23 18:15	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:15	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	12/14/23 18:15	
Dibromofluoromethane	102	80 - 116	12/14/23 18:15	
Toluene-d8	101	87 - 121	12/14/23 18:15	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 06:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R2311417-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 18:38	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 18:38	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 18:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 18:38	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 18:38	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 18:38	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 18:38	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 18:38	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 18:38	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 18:38	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
1,4-Dioxane	100 U	100	1	12/14/23 18:38	
2-Butanone (MEK)	10 U	10	1	12/14/23 18:38	
2-Hexanone	10 U	10	1	12/14/23 18:38	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 18:38	
Acetone	10 U	10	1	12/14/23 18:38	
Benzene	5.0 U	5.0	1	12/14/23 18:38	
Bromochloromethane	5.0 U	5.0	1	12/14/23 18:38	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 18:38	
Bromoform	5.0 U	5.0	1	12/14/23 18:38	
Bromomethane	5.0 U	5.0	1	12/14/23 18:38	
Carbon Disulfide	10 U	10	1	12/14/23 18:38	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 18:38	
Chlorobenzene	5.0 U	5.0	1	12/14/23 18:38	
Chloroethane	5.0 U	5.0	1	12/14/23 18:38	
Chloroform	5.0 U	5.0	1	12/14/23 18:38	
Chloromethane	5.0 U	5.0	1	12/14/23 18:38	
Cyclohexane	10 U	10	1	12/14/23 18:38	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 18:38	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 18:38	
Dichloromethane	5.0 U	5.0	1	12/14/23 18:38	
Ethylbenzene	5.0 U	5.0	1	12/14/23 18:38	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 18:38	
Methyl Acetate	10 U	10	1	12/14/23 18:38	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 18:38	
Methylcyclohexane	10 U	10	1	12/14/23 18:38	
Styrene	5.0 U	5.0	1	12/14/23 18:38	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 18:38	
Toluene	5.0 U	5.0	1	12/14/23 18:38	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 06:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R2311417-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 18:38	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 18:38	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 18:38	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:38	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:38	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 18:38	
o-Xylene	5.0 U	5.0	1	12/14/23 18:38	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:38	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	12/14/23 18:38	
Dibromofluoromethane	99	80 - 116	12/14/23 18:38	
Toluene-d8	103	87 - 121	12/14/23 18:38	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 06:48
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2311417-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 19:00	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 19:00	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 19:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 19:00	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 19:00	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 19:00	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 19:00	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 19:00	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 19:00	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 19:00	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
1,4-Dioxane	100 U	100	1	12/14/23 19:00	
2-Butanone (MEK)	10 U	10	1	12/14/23 19:00	
2-Hexanone	10 U	10	1	12/14/23 19:00	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 19:00	
Acetone	10 U	10	1	12/14/23 19:00	
Benzene	5.0 U	5.0	1	12/14/23 19:00	
Bromochloromethane	5.0 U	5.0	1	12/14/23 19:00	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 19:00	
Bromoform	5.0 U	5.0	1	12/14/23 19:00	
Bromomethane	5.0 U	5.0	1	12/14/23 19:00	
Carbon Disulfide	10 U	10	1	12/14/23 19:00	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 19:00	
Chlorobenzene	5.0 U	5.0	1	12/14/23 19:00	
Chloroethane	5.0 U	5.0	1	12/14/23 19:00	
Chloroform	5.0 U	5.0	1	12/14/23 19:00	
Chloromethane	5.0 U	5.0	1	12/14/23 19:00	
Cyclohexane	10 U	10	1	12/14/23 19:00	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 19:00	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 19:00	
Dichloromethane	5.0 U	5.0	1	12/14/23 19:00	
Ethylbenzene	5.0 U	5.0	1	12/14/23 19:00	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 19:00	
Methyl Acetate	10 U	10	1	12/14/23 19:00	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 19:00	
Methylcyclohexane	10 U	10	1	12/14/23 19:00	
Styrene	5.0 U	5.0	1	12/14/23 19:00	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 19:00	
Toluene	5.0 U	5.0	1	12/14/23 19:00	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 06:48
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2311417-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 19:00	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 19:00	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 19:00	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:00	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:00	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 19:00	
o-Xylene	5.0 U	5.0	1	12/14/23 19:00	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:00	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	12/14/23 19:00	
Dibromofluoromethane	103	80 - 116	12/14/23 19:00	
Toluene-d8	104	87 - 121	12/14/23 19:00	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:10
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2311417-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 19:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 19:23	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 19:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 19:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 19:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 19:23	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 19:23	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 19:23	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 19:23	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 19:23	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
1,4-Dioxane	100 U	100	1	12/14/23 19:23	
2-Butanone (MEK)	10 U	10	1	12/14/23 19:23	
2-Hexanone	10 U	10	1	12/14/23 19:23	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 19:23	
Acetone	10 U	10	1	12/14/23 19:23	
Benzene	5.0 U	5.0	1	12/14/23 19:23	
Bromochloromethane	5.0 U	5.0	1	12/14/23 19:23	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 19:23	
Bromoform	5.0 U	5.0	1	12/14/23 19:23	
Bromomethane	5.0 U	5.0	1	12/14/23 19:23	
Carbon Disulfide	10 U	10	1	12/14/23 19:23	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 19:23	
Chlorobenzene	5.0 U	5.0	1	12/14/23 19:23	
Chloroethane	5.0 U	5.0	1	12/14/23 19:23	
Chloroform	5.0 U	5.0	1	12/14/23 19:23	
Chloromethane	5.0 U	5.0	1	12/14/23 19:23	
Cyclohexane	10 U	10	1	12/14/23 19:23	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 19:23	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 19:23	
Dichloromethane	5.0 U	5.0	1	12/14/23 19:23	
Ethylbenzene	5.0 U	5.0	1	12/14/23 19:23	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 19:23	
Methyl Acetate	10 U	10	1	12/14/23 19:23	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 19:23	
Methylcyclohexane	10 U	10	1	12/14/23 19:23	
Styrene	5.0 U	5.0	1	12/14/23 19:23	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 19:23	
Toluene	5.0 U	5.0	1	12/14/23 19:23	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:10
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2311417-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 19:23	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 19:23	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 19:23	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:23	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 19:23	
o-Xylene	5.0 U	5.0	1	12/14/23 19:23	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	12/14/23 19:23	
Dibromofluoromethane	96	80 - 116	12/14/23 19:23	
Toluene-d8	101	87 - 121	12/14/23 19:23	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2311417-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 15:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 15:59	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 15:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 15:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 15:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 15:59	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 15:59	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 15:59	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 15:59	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 15:59	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
1,4-Dioxane	100 U	100	1	12/14/23 15:59	
2-Butanone (MEK)	10 U	10	1	12/14/23 15:59	
2-Hexanone	10 U	10	1	12/14/23 15:59	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 15:59	
Acetone	10 U	10	1	12/14/23 15:59	
Benzene	5.0 U	5.0	1	12/14/23 15:59	
Bromochloromethane	5.0 U	5.0	1	12/14/23 15:59	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 15:59	
Bromoform	5.0 U	5.0	1	12/14/23 15:59	
Bromomethane	5.0 U	5.0	1	12/14/23 15:59	
Carbon Disulfide	10 U	10	1	12/14/23 15:59	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 15:59	
Chlorobenzene	5.0 U	5.0	1	12/14/23 15:59	
Chloroethane	5.0 U	5.0	1	12/14/23 15:59	
Chloroform	5.0 U	5.0	1	12/14/23 15:59	
Chloromethane	5.0 U	5.0	1	12/14/23 15:59	
Cyclohexane	10 U	10	1	12/14/23 15:59	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 15:59	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 15:59	
Dichloromethane	5.0 U	5.0	1	12/14/23 15:59	
Ethylbenzene	5.0 U	5.0	1	12/14/23 15:59	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 15:59	
Methyl Acetate	10 U	10	1	12/14/23 15:59	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 15:59	
Methylcyclohexane	10 U	10	1	12/14/23 15:59	
Styrene	5.0 U	5.0	1	12/14/23 15:59	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 15:59	
Toluene	5.0 U	5.0	1	12/14/23 15:59	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2311417-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 15:59	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 15:59	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 15:59	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 15:59	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 15:59	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 15:59	
o-Xylene	5.0 U	5.0	1	12/14/23 15:59	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 15:59	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 15:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	12/14/23 15:59	
Dibromofluoromethane	99	80 - 116	12/14/23 15:59	
Toluene-d8	101	87 - 121	12/14/23 15:59	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311417
Project: Gowanda/6974.96
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
MW-1	R2311417-001	96	98	101
MW-2	R2311417-002	103	101	103
MW-3	R2311417-003	98	94	98
MW-4	R2311417-004	98	97	103
MW-5	R2311417-005	100	95	100
MW-6	R2311417-006	99	98	100
MW-7	R2311417-007	101	102	101
MW-8	R2311417-008	97	99	103
MW-9	R2311417-009	103	103	104
MW-10	R2311417-010	100	96	101
Trip Blank	R2311417-011	97	99	101
Lab Control Sample	RQ2316422-04	102	102	102
Lab Control Sample	RQ2316422-05	98	97	100
Method Blank	RQ2316422-06	98	98	99

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316422-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 12:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 12:57	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 12:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 12:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 12:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 12:57	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 12:57	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 12:57	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 12:57	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 12:57	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
1,4-Dioxane	100 U	100	1	12/14/23 12:57	
2-Butanone (MEK)	10 U	10	1	12/14/23 12:57	
2-Hexanone	10 U	10	1	12/14/23 12:57	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 12:57	
Acetone	10 U	10	1	12/14/23 12:57	
Benzene	5.0 U	5.0	1	12/14/23 12:57	
Bromochloromethane	5.0 U	5.0	1	12/14/23 12:57	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 12:57	
Bromoform	5.0 U	5.0	1	12/14/23 12:57	
Bromomethane	5.0 U	5.0	1	12/14/23 12:57	
Carbon Disulfide	10 U	10	1	12/14/23 12:57	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 12:57	
Chlorobenzene	5.0 U	5.0	1	12/14/23 12:57	
Chloroethane	5.0 U	5.0	1	12/14/23 12:57	
Chloroform	5.0 U	5.0	1	12/14/23 12:57	
Chloromethane	5.0 U	5.0	1	12/14/23 12:57	
Cyclohexane	10 U	10	1	12/14/23 12:57	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 12:57	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 12:57	
Dichloromethane	5.0 U	5.0	1	12/14/23 12:57	
Ethylbenzene	5.0 U	5.0	1	12/14/23 12:57	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 12:57	
Methyl Acetate	10 U	10	1	12/14/23 12:57	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 12:57	
Methylcyclohexane	10 U	10	1	12/14/23 12:57	
Styrene	5.0 U	5.0	1	12/14/23 12:57	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 12:57	
Toluene	5.0 U	5.0	1	12/14/23 12:57	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311417
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316422-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 12:57	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 12:57	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 12:57	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 12:57	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 12:57	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 12:57	
o-Xylene	5.0 U	5.0	1	12/14/23 12:57	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 12:57	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 12:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	12/14/23 12:57	
Dibromofluoromethane	98	80 - 116	12/14/23 12:57	
Toluene-d8	99	87 - 121	12/14/23 12:57	

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311417
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316422-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.4	20.0	102	75-125
1,1,2,2-Tetrachloroethane	8260C	18.4	20.0	92	78-126
1,1,2-Trichloroethane	8260C	19.0	20.0	95	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.4	20.0	92	69-142
1,2,3-Trichlorobenzene	8260C	19.7	20.0	98	67-136
1,2,4-Trichlorobenzene	8260C	19.1	20.0	95	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.8	20.0	89	55-136
1,2-Dibromoethane	8260C	19.5	20.0	97	82-127
1,2-Dichlorobenzene	8260C	20.6	20.0	103	80-119
1,2-Dichloroethane	8260C	20.9	20.0	104	71-127
1,2-Dichloropropane	8260C	20.1	20.0	100	80-119
1,3-Dichlorobenzene	8260C	20.2	20.0	101	83-121
1,4-Dichlorobenzene	8260C	19.4	20.0	97	79-119
1,4-Dioxane	8260C	360	400	90	44-154
2-Butanone (MEK)	8260C	15.0	20.0	75	61-137
2-Hexanone	8260C	18.0	20.0	90	63-124
4-Methyl-2-pentanone	8260C	18.9	20.0	95	66-124
Acetone	8260C	14.2	20.0	71	40-161
Benzene	8260C	20.5	20.0	103	79-119
Bromochloromethane	8260C	20.1	20.0	101	81-126
Bromodichloromethane	8260C	20.7	20.0	103	81-123
Bromoform	8260C	20.7	20.0	104	65-146
Bromomethane	8260C	20.6	20.0	103	42-166
Carbon Disulfide	8260C	17.4	20.0	87	66-128
Carbon Tetrachloride	8260C	20.6	20.0	103	70-127
Chlorobenzene	8260C	20.5	20.0	103	80-121
Chloroethane	8260C	15.6	20.0	78	62-131
Chloroform	8260C	20.9	20.0	104	79-120
Chloromethane	8260C	19.8	20.0	99	72-179
Cyclohexane	8260C	22.2	20.0	111	69-120
Dibromochloromethane	8260C	20.1	20.0	101	72-128

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311417
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316422-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	19.6	20.0	98	59-155
Dichloromethane	8260C	19.7	20.0	99	73-122
Ethylbenzene	8260C	21.1	20.0	106	76-120
Isopropylbenzene (Cumene)	8260C	20.6	20.0	103	77-128
Methyl Acetate	8260C	13.2	20.0	66	61-133
Methyl tert-Butyl Ether	8260C	19.6	20.0	98	75-118
Methylcyclohexane	8260C	21.5	20.0	107	51-129
Styrene	8260C	21.6	20.0	108	80-124
Tetrachloroethene (PCE)	8260C	22.1	20.0	111	72-125
Toluene	8260C	20.7	20.0	103	79-119
Trichloroethene (TCE)	8260C	19.0	20.0	95	74-122
Trichlorofluoromethane (CFC 11)	8260C	22.0	20.0	110	71-136
Vinyl Chloride	8260C	18.9	20.0	95	74-159
cis-1,2-Dichloroethene	8260C	18.7	20.0	94	80-121
cis-1,3-Dichloropropene	8260C	20.5	20.0	103	77-122
m,p-Xylenes	8260C	41.9	40.0	105	80-126
o-Xylene	8260C	20.0	20.0	100	79-123
trans-1,2-Dichloroethene	8260C	19.2	20.0	96	73-118
trans-1,3-Dichloropropene	8260C	20.9	20.0	104	71-133

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311417
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316422-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	5.0 U			75-125
1,1,2,2-Tetrachloroethane	8260C	5.0 U			78-126
1,1,2-Trichloroethane	8260C	5.0 U			82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	5.0 U			67-124
1,1-Dichloroethane (1,1-DCA)	8260C	5.0 U			80-124
1,1-Dichloroethene (1,1-DCE)	8260C	5.0 U			69-142
1,2,3-Trichlorobenzene	8260C	5.0 U			67-136
1,2,4-Trichlorobenzene	8260C	5.0 U			75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	5.0 U			55-136
1,2-Dibromoethane	8260C	5.0 U			82-127
1,2-Dichlorobenzene	8260C	5.0 U			80-119
1,2-Dichloroethane	8260C	5.0 U			71-127
1,2-Dichloropropane	8260C	5.0 U			80-119
1,3-Dichlorobenzene	8260C	5.0 U			83-121
1,4-Dichlorobenzene	8260C	5.0 U			79-119
1,4-Dioxane	8260C	100 U			44-154
2-Butanone (MEK)	8260C	10 U			61-137
2-Hexanone	8260C	10 U			63-124
4-Methyl-2-pentanone	8260C	10 U			66-124
Acetone	8260C	10 U			40-161
Benzene	8260C	5.0 U			79-119
Bromochloromethane	8260C	5.0 U			81-126
Bromodichloromethane	8260C	5.0 U			81-123
Bromoform	8260C	5.0 U			65-146
Bromomethane	8260C	5.0 U			42-166
Carbon Disulfide	8260C	10 U			66-128
Carbon Tetrachloride	8260C	5.0 U			70-127
Chlorobenzene	8260C	5.0 U			80-121
Chloroethane	8260C	5.0 U			62-131
Chloroform	8260C	5.0 U			79-120
Chloromethane	8260C	5.0 U			72-179
Cyclohexane	8260C	10 U			69-120
Dibromochloromethane	8260C	5.0 U			72-128

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311417
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316422-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	5.0 U			59-155
Dichloromethane	8260C	5.0 U			73-122
Ethylbenzene	8260C	5.0 U			76-120
Isopropylbenzene (Cumene)	8260C	5.0 U			77-128
Methyl Acetate	8260C	10 U			61-133
Methyl tert-Butyl Ether	8260C	5.0 U			75-118
Methylcyclohexane	8260C	10 U			51-129
Styrene	8260C	5.0 U			80-124
Tetrachloroethene (PCE)	8260C	5.0 U			72-125
Toluene	8260C	5.0 U			79-119
Trichloroethene (TCE)	8260C	5.0 U			74-122
Trichlorofluoromethane (CFC 11)	8260C	5.0 U			71-136
Vinyl Chloride	8260C	5.0 U			74-159
cis-1,2-Dichloroethene	8260C	5.0 U			80-121
cis-1,3-Dichloropropene	8260C	5.0 U			77-122
m,p-Xylenes	8260C	5.0 U			80-126
o-Xylene	8260C	5.0 U			79-123
trans-1,2-Dichloroethene	8260C	5.0 U			73-118
trans-1,3-Dichloropropene	8260C	5.0 U			71-133

December 18, 2023 Service Request No:R2311418

Ariadna Cheremeteff
Colliers Engineering & Design
280 East Broad Street
Suite 200
Rochester, NY 14604

Laboratory Results for: Gowanda

Dear Ariadna,

Enclosed are the results of the sample(s) submitted to our laboratory December 08, 2023
For your reference, these analyses have been assigned our service request number **R2311418.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Service Request: R2311418
Project: Gowanda
Date Received: 12/08/2023
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty water samples were received for analysis at ALS Environmental on 12/08/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 12/18/2023

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-11			Lab ID: R2311418-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	200			5.0	ug/L	8260C
cis-1,2-Dichloroethene	170	D		25	ug/L	8260C
trans-1,2-Dichloroethene	15			5.0	ug/L	8260C
Trichloroethene (TCE)	350	E		5.0	ug/L	8260C
Trichloroethene (TCE)	240	D		25	ug/L	8260C

CLIENT ID: MW-12			Lab ID: R2311418-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	36			5.0	ug/L	8260C
Trichloroethene (TCE)	22			5.0	ug/L	8260C

CLIENT ID: MW-14			Lab ID: R2311418-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	7.4			5.0	ug/L	8260C
Trichloroethene (TCE)	18			5.0	ug/L	8260C

CLIENT ID: MW-16			Lab ID: R2311418-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	11			5.0	ug/L	8260C

CLIENT ID: MW-17			Lab ID: R2311418-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	54			5.0	ug/L	8260C
Trichloroethene (TCE)	6.2			5.0	ug/L	8260C

CLIENT ID: MW-21			Lab ID: R2311418-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	16			5.0	ug/L	8260C

CLIENT ID: DR-1			Lab ID: R2311418-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	55			5.0	ug/L	8260C
cis-1,2-Dichloroethene	56	D		50	ug/L	8260C
trans-1,2-Dichloroethene	16			5.0	ug/L	8260C
Trichloroethene (TCE)	830	E		5.0	ug/L	8260C
Trichloroethene (TCE)	730	D		50	ug/L	8260C

CLIENT ID: DR-2			Lab ID: R2311418-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	99			5.0	ug/L	8260C
Trichloroethene (TCE)	22			5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DR-3			Lab ID: R2311418-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	12			5.0	ug/L	8260C
Trichloroethene (TCE)	28			5.0	ug/L	8260C

CLIENT ID: DR-4			Lab ID: R2311418-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	7.5			5.0	ug/L	8260C
Trichloroethene (TCE)	18			5.0	ug/L	8260C

CLIENT ID: G-1			Lab ID: R2311418-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	48			5.0	ug/L	8260C

CLIENT ID: G-2			Lab ID: R2311418-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	33			5.0	ug/L	8260C

CLIENT ID: MW-X			Lab ID: R2311418-019			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
cis-1,2-Dichloroethene	100			13	ug/L	8260C
cis-1,2-Dichloroethene	100	D		25	ug/L	8260C
Trichloroethene (TCE)	580	E		13	ug/L	8260C
Trichloroethene (TCE)	570	D		25	ug/L	8260C

CLIENT ID: G-3			Lab ID: R2311418-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Trichloroethene (TCE)	6.9			5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:**R2311418
Project: Gowanda/6974.96

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2311418-001	MW-11	12/7/2023	1524
R2311418-002	MW-12	12/7/2023	1437
R2311418-003	MW-13	12/7/2023	1449
R2311418-004	MW-14	12/7/2023	1331
R2311418-005	MW-15	12/7/2023	1256
R2311418-006	MW-16	12/8/2023	0852
R2311418-007	MW-17	12/8/2023	0945
R2311418-008	MW-18	12/8/2023	1130
R2311418-009	MW-19R	12/8/2023	1057
R2311418-010	MW-20	12/8/2023	1020
R2311418-011	MW-21	12/8/2023	1158
R2311418-012	DR-1	12/7/2023	1513
R2311418-013	DR-2	12/7/2023	1421
R2311418-014	DR-3	12/7/2023	1356
R2311418-015	DR-4	12/7/2023	1320
R2311418-016	G-1	12/7/2023	1240
R2311418-017	G-2	12/7/2023	1215
R2311418-018	G-3	12/7/2023	0923
R2311418-019	MW-X	12/8/2023	
R2311418-020	EB	12/8/2023	

Chain of Custody / Analytical Request Form

75665

SR#:

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Page 1 of 2

Report To:

Company: Colliers Engineering & Design
Contact: Justin L. O'Brien
Email: Justin.OBRIEN@CollidersEng.com
Phone: 607-743-1412
Address: 280 E Broad St #100
Rochester, NY 14604

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER

Project Name: GOWANDA Q4 2023
Project Number: 23006924A
ALS Quote #: 23110013
Sampler's Signature:
Email CC:
Email CC:
State Samples Collected (Circle or Write): (NY) MA, PA, CT, Other:

Preservative: 0. None; 1. HCl; 2. HNO3; 3. H2SO4; 4. NAOH; 5. Zn Acet.; 6. MeOH; 7. NaHSO4; 8. Other

Lab ID (ALS)	Sample ID:	Date	Time	Matrix (GW WW SW DW S L NA)	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter	Notes:
	MW-11	12/7/23	1524		3		✓							
	MW-12	12/7/23	1437		3		✓							
	MW-13	12/7/23	1449		3		✓							
	MW-14	12/7/23	1331		3		✓							
	MW-15	12/7/23	1256		3		✓							
	MW-16	12/8/23	0851		3		✓							
	MW-17	12/8/23	0945		3		✓							
	MW-18	12/8/23	1130		3		✓							
	MW-19R	12/8/23	1057		3		✓							
	MW-20	12/8/23	1040		3		✓							
	MW-21	12/8/23	1158		3		✓							
	DR-1	12/7/23	1515		3		✓							
	DR-2	12/7/23	1421		3		✓							
	DR-3	12/7/23	1356		3		✓							
	DR-4	12/7/23	1320		3		✓							
	G-1	12/7/23	1240		3		✓							
	G-2	12/7/23	1215		3		✓							
	G-3	12/8/23	0923		3		✓							
	MW-X	12/8/23			3		✓							
	EB				2		✓							

Special Instructions / Comments:

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
X Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
____Tier IV/Cat B - Data Validation Report w/. Data
EDD: X Yes ____No
EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (□ Same as Report To)

PO #:
Company:
Contact:
Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	Justin L. O'Brien	Randy Dio				
Company	CED	ALS				
Date/Time	12/8/23 1438	12/8/23 1435				

R2311418 5
Colliers Engineering & Design
Gowanda

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservati

R2311418 5
Colliers Engineering & Design
Gowanda

Project/Client _____ Folder Number _____

Cooler received on 12/8/23 by: RR **COURIER:** ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 12/8/23 Time: 1455 ID: IR#12 (IR#1) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	13.0						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted (Poorly Packed (described below)) (Same Day Rule)

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by RR on 12/8 at 1457
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 12/12/23 Time: 0923 by: RR

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO)
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? YES NO (N/A)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	24001661	4/26				

Bottle lot numbers: 103023-3AXH
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: RR
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96

Sample Name: MW-11 **Date Collected:** 12/7/23
Lab Code: R2311418-001 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-11 **Date Collected:** 12/7/23
Lab Code: R2311418-001.R01 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-12 **Date Collected:** 12/7/23
Lab Code: R2311418-002 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-13 **Date Collected:** 12/7/23
Lab Code: R2311418-003 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-14 **Date Collected:** 12/7/23
Lab Code: R2311418-004 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96

Sample Name: MW-15 **Date Collected:** 12/7/23
Lab Code: R2311418-005 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-16 **Date Collected:** 12/8/23
Lab Code: R2311418-006 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-17 **Date Collected:** 12/8/23
Lab Code: R2311418-007 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-18 **Date Collected:** 12/8/23
Lab Code: R2311418-008 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-19R **Date Collected:** 12/8/23
Lab Code: R2311418-009 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96

Sample Name: MW-20 **Date Collected:** 12/8/23
Lab Code: R2311418-010 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: MW-21 **Date Collected:** 12/8/23
Lab Code: R2311418-011 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: DR-1 **Date Collected:** 12/7/23
Lab Code: R2311418-012 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: DR-1 **Date Collected:** 12/7/23
Lab Code: R2311418-012.R01 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: DR-2 **Date Collected:** 12/7/23
Lab Code: R2311418-013 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96

Sample Name: DR-3 **Date Collected:** 12/7/23
Lab Code: R2311418-014 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: DR-4 **Date Collected:** 12/7/23
Lab Code: R2311418-015 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: G-1 **Date Collected:** 12/7/23
Lab Code: R2311418-016 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: G-2 **Date Collected:** 12/7/23
Lab Code: R2311418-017 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: G-3 **Date Collected:** 12/7/23
Lab Code: R2311418-018 **Date Received:** 12/8/23
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96		

Sample Name:	MW-X	**Date Collected:**	12/8/23
Lab Code:	R2311418-019	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	MW-X	**Date Collected:**	12/8/23
Lab Code:	R2311418-019.R01	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name:	EB	**Date Collected:**	12/8/23
Lab Code:	R2311418-020	**Date Received:**	12/8/23
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:24
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2311418-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 17:44	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 17:44	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 17:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 17:44	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 17:44	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 17:44	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 17:44	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 17:44	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 17:44	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 17:44	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
1,4-Dioxane	100 U	100	1	12/14/23 17:44	
2-Butanone (MEK)	10 U	10	1	12/14/23 17:44	
2-Hexanone	10 U	10	1	12/14/23 17:44	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 17:44	
Acetone	10 U	10	1	12/14/23 17:44	
Benzene	5.0 U	5.0	1	12/14/23 17:44	
Bromochloromethane	5.0 U	5.0	1	12/14/23 17:44	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 17:44	
Bromoform	5.0 U	5.0	1	12/14/23 17:44	
Bromomethane	5.0 U	5.0	1	12/14/23 17:44	
Carbon Disulfide	10 U	10	1	12/14/23 17:44	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 17:44	
Chlorobenzene	5.0 U	5.0	1	12/14/23 17:44	
Chloroethane	5.0 U	5.0	1	12/14/23 17:44	
Chloroform	5.0 U	5.0	1	12/14/23 17:44	
Chloromethane	5.0 U	5.0	1	12/14/23 17:44	
Cyclohexane	10 U	10	1	12/14/23 17:44	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 17:44	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 17:44	
Dichloromethane	5.0 U	5.0	1	12/14/23 17:44	
Ethylbenzene	5.0 U	5.0	1	12/14/23 17:44	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 17:44	
Methyl Acetate	10 U	10	1	12/14/23 17:44	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 17:44	
Methylcyclohexane	10 U	10	1	12/14/23 17:44	
Styrene	5.0 U	5.0	1	12/14/23 17:44	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 17:44	
Toluene	5.0 U	5.0	1	12/14/23 17:44	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:24
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2311418-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**350**	**E**	5.0	1	12/14/23 17:44	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	12/14/23 17:44	
Vinyl Chloride	5.0	U	5.0	1	12/14/23 17:44	
cis-1,2-Dichloroethene	**200**		5.0	1	12/14/23 17:44	
cis-1,3-Dichloropropene	5.0	U	5.0	1	12/14/23 17:44	
m,p-Xylenes	5.0	U	5.0	1	12/14/23 17:44	
o-Xylene	5.0	U	5.0	1	12/14/23 17:44	
trans-1,2-Dichloroethene	**15**		5.0	1	12/14/23 17:44	
trans-1,3-Dichloropropene	5.0	U	5.0	1	12/14/23 17:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/14/23 17:44	
Dibromofluoromethane	91	80 - 116	12/14/23 17:44	
Toluene-d8	94	87 - 121	12/14/23 17:44	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:24
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2311418-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	5	12/15/23 16:48	
1,1,2,2-Tetrachloroethane	25 U	25	5	12/15/23 16:48	
1,1,2-Trichloroethane	25 U	25	5	12/15/23 16:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	25 U	25	5	12/15/23 16:48	
1,1-Dichloroethane (1,1-DCA)	25 U	25	5	12/15/23 16:48	
1,1-Dichloroethene (1,1-DCE)	25 U	25	5	12/15/23 16:48	
1,2,3-Trichlorobenzene	25 U	25	5	12/15/23 16:48	
1,2,4-Trichlorobenzene	25 U	25	5	12/15/23 16:48	
1,2-Dibromo-3-chloropropane (DBCP)	25 U	25	5	12/15/23 16:48	
1,2-Dibromoethane	25 U	25	5	12/15/23 16:48	
1,2-Dichlorobenzene	25 U	25	5	12/15/23 16:48	
1,2-Dichloroethane	25 U	25	5	12/15/23 16:48	
1,2-Dichloropropane	25 U	25	5	12/15/23 16:48	
1,3-Dichlorobenzene	25 U	25	5	12/15/23 16:48	
1,4-Dichlorobenzene	25 U	25	5	12/15/23 16:48	
1,4-Dioxane	500 U	500	5	12/15/23 16:48	
2-Butanone (MEK)	50 U	50	5	12/15/23 16:48	
2-Hexanone	50 U	50	5	12/15/23 16:48	
4-Methyl-2-pentanone	50 U	50	5	12/15/23 16:48	
Acetone	50 U	50	5	12/15/23 16:48	
Benzene	25 U	25	5	12/15/23 16:48	
Bromochloromethane	25 U	25	5	12/15/23 16:48	
Bromodichloromethane	25 U	25	5	12/15/23 16:48	
Bromoform	25 U	25	5	12/15/23 16:48	
Bromomethane	25 U	25	5	12/15/23 16:48	
Carbon Disulfide	50 U	50	5	12/15/23 16:48	
Carbon Tetrachloride	25 U	25	5	12/15/23 16:48	
Chlorobenzene	25 U	25	5	12/15/23 16:48	
Chloroethane	25 U	25	5	12/15/23 16:48	
Chloroform	25 U	25	5	12/15/23 16:48	
Chloromethane	25 U	25	5	12/15/23 16:48	
Cyclohexane	50 U	50	5	12/15/23 16:48	
Dibromochloromethane	25 U	25	5	12/15/23 16:48	
Dichlorodifluoromethane (CFC 12)	25 U	25	5	12/15/23 16:48	
Dichloromethane	25 U	25	5	12/15/23 16:48	
Ethylbenzene	25 U	25	5	12/15/23 16:48	
Isopropylbenzene (Cumene)	25 U	25	5	12/15/23 16:48	
Methyl Acetate	50 U	50	5	12/15/23 16:48	
Methyl tert-Butyl Ether	25 U	25	5	12/15/23 16:48	
Methylcyclohexane	50 U	50	5	12/15/23 16:48	
Styrene	25 U	25	5	12/15/23 16:48	
Tetrachloroethene (PCE)	25 U	25	5	12/15/23 16:48	
Toluene	25 U	25	5	12/15/23 16:48	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:24
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2311418-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**240 D**	25	5	12/15/23 16:48	
Trichlorofluoromethane (CFC 11)	25 U	25	5	12/15/23 16:48	
Vinyl Chloride	25 U	25	5	12/15/23 16:48	
cis-1,2-Dichloroethene	**170 D**	25	5	12/15/23 16:48	
cis-1,3-Dichloropropene	25 U	25	5	12/15/23 16:48	
m,p-Xylenes	25 U	25	5	12/15/23 16:48	
o-Xylene	25 U	25	5	12/15/23 16:48	
trans-1,2-Dichloroethene	25 U	25	5	12/15/23 16:48	
trans-1,3-Dichloropropene	25 U	25	5	12/15/23 16:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	12/15/23 16:48	
Dibromofluoromethane	93	80 - 116	12/15/23 16:48	
Toluene-d8	97	87 - 121	12/15/23 16:48	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:37
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-12	**Units:**	ug/L
Lab Code:	R2311418-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 18:06	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 18:06	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 18:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 18:06	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 18:06	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 18:06	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 18:06	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 18:06	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 18:06	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 18:06	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
1,4-Dioxane	100 U	100	1	12/14/23 18:06	
2-Butanone (MEK)	10 U	10	1	12/14/23 18:06	
2-Hexanone	10 U	10	1	12/14/23 18:06	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 18:06	
Acetone	10 U	10	1	12/14/23 18:06	
Benzene	5.0 U	5.0	1	12/14/23 18:06	
Bromochloromethane	5.0 U	5.0	1	12/14/23 18:06	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 18:06	
Bromoform	5.0 U	5.0	1	12/14/23 18:06	
Bromomethane	5.0 U	5.0	1	12/14/23 18:06	
Carbon Disulfide	10 U	10	1	12/14/23 18:06	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 18:06	
Chlorobenzene	5.0 U	5.0	1	12/14/23 18:06	
Chloroethane	5.0 U	5.0	1	12/14/23 18:06	
Chloroform	5.0 U	5.0	1	12/14/23 18:06	
Chloromethane	5.0 U	5.0	1	12/14/23 18:06	
Cyclohexane	10 U	10	1	12/14/23 18:06	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 18:06	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 18:06	
Dichloromethane	5.0 U	5.0	1	12/14/23 18:06	
Ethylbenzene	5.0 U	5.0	1	12/14/23 18:06	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 18:06	
Methyl Acetate	10 U	10	1	12/14/23 18:06	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 18:06	
Methylcyclohexane	10 U	10	1	12/14/23 18:06	
Styrene	5.0 U	5.0	1	12/14/23 18:06	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 18:06	
Toluene	5.0 U	5.0	1	12/14/23 18:06	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:37
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-12	**Units:**	ug/L
Lab Code:	R2311418-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**22**	5.0	1	12/14/23 18:06	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 18:06	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 18:06	
cis-1,2-Dichloroethene	**36**	5.0	1	12/14/23 18:06	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:06	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 18:06	
o-Xylene	5.0 U	5.0	1	12/14/23 18:06	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:06	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 18:06	
Dibromofluoromethane	92	80 - 116	12/14/23 18:06	
Toluene-d8	94	87 - 121	12/14/23 18:06	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:49
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2311418-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 18:28	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 18:28	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 18:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 18:28	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 18:28	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 18:28	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 18:28	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 18:28	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 18:28	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 18:28	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
1,4-Dioxane	100 U	100	1	12/14/23 18:28	
2-Butanone (MEK)	10 U	10	1	12/14/23 18:28	
2-Hexanone	10 U	10	1	12/14/23 18:28	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 18:28	
Acetone	10 U	10	1	12/14/23 18:28	
Benzene	5.0 U	5.0	1	12/14/23 18:28	
Bromochloromethane	5.0 U	5.0	1	12/14/23 18:28	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 18:28	
Bromoform	5.0 U	5.0	1	12/14/23 18:28	
Bromomethane	5.0 U	5.0	1	12/14/23 18:28	
Carbon Disulfide	10 U	10	1	12/14/23 18:28	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 18:28	
Chlorobenzene	5.0 U	5.0	1	12/14/23 18:28	
Chloroethane	5.0 U	5.0	1	12/14/23 18:28	
Chloroform	5.0 U	5.0	1	12/14/23 18:28	
Chloromethane	5.0 U	5.0	1	12/14/23 18:28	
Cyclohexane	10 U	10	1	12/14/23 18:28	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 18:28	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 18:28	
Dichloromethane	5.0 U	5.0	1	12/14/23 18:28	
Ethylbenzene	5.0 U	5.0	1	12/14/23 18:28	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 18:28	
Methyl Acetate	10 U	10	1	12/14/23 18:28	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 18:28	
Methylcyclohexane	10 U	10	1	12/14/23 18:28	
Styrene	5.0 U	5.0	1	12/14/23 18:28	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 18:28	
Toluene	5.0 U	5.0	1	12/14/23 18:28	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:49
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R2311418-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 18:28	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 18:28	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 18:28	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:28	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:28	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 18:28	
o-Xylene	5.0 U	5.0	1	12/14/23 18:28	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:28	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/14/23 18:28	
Dibromofluoromethane	88	80 - 116	12/14/23 18:28	
Toluene-d8	92	87 - 121	12/14/23 18:28	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:31
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2311418-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 18:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 18:51	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 18:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 18:51	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 18:51	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 18:51	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 18:51	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 18:51	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 18:51	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 18:51	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
1,4-Dioxane	100 U	100	1	12/14/23 18:51	
2-Butanone (MEK)	10 U	10	1	12/14/23 18:51	
2-Hexanone	10 U	10	1	12/14/23 18:51	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 18:51	
Acetone	10 U	10	1	12/14/23 18:51	
Benzene	5.0 U	5.0	1	12/14/23 18:51	
Bromochloromethane	5.0 U	5.0	1	12/14/23 18:51	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 18:51	
Bromoform	5.0 U	5.0	1	12/14/23 18:51	
Bromomethane	5.0 U	5.0	1	12/14/23 18:51	
Carbon Disulfide	10 U	10	1	12/14/23 18:51	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 18:51	
Chlorobenzene	5.0 U	5.0	1	12/14/23 18:51	
Chloroethane	5.0 U	5.0	1	12/14/23 18:51	
Chloroform	5.0 U	5.0	1	12/14/23 18:51	
Chloromethane	5.0 U	5.0	1	12/14/23 18:51	
Cyclohexane	10 U	10	1	12/14/23 18:51	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 18:51	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 18:51	
Dichloromethane	5.0 U	5.0	1	12/14/23 18:51	
Ethylbenzene	5.0 U	5.0	1	12/14/23 18:51	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 18:51	
Methyl Acetate	10 U	10	1	12/14/23 18:51	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 18:51	
Methylcyclohexane	10 U	10	1	12/14/23 18:51	
Styrene	5.0 U	5.0	1	12/14/23 18:51	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 18:51	
Toluene	5.0 U	5.0	1	12/14/23 18:51	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:31
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R2311418-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**18**	5.0	1	12/14/23 18:51	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 18:51	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 18:51	
cis-1,2-Dichloroethene	**7.4**	5.0	1	12/14/23 18:51	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:51	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 18:51	
o-Xylene	5.0 U	5.0	1	12/14/23 18:51	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 18:51	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 18:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 18:51	
Dibromofluoromethane	92	80 - 116	12/14/23 18:51	
Toluene-d8	95	87 - 121	12/14/23 18:51	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:56
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2311418-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 19:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 19:13	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 19:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 19:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 19:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 19:13	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 19:13	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 19:13	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 19:13	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 19:13	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
1,4-Dioxane	100 U	100	1	12/14/23 19:13	
2-Butanone (MEK)	10 U	10	1	12/14/23 19:13	
2-Hexanone	10 U	10	1	12/14/23 19:13	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 19:13	
Acetone	10 U	10	1	12/14/23 19:13	
Benzene	5.0 U	5.0	1	12/14/23 19:13	
Bromochloromethane	5.0 U	5.0	1	12/14/23 19:13	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 19:13	
Bromoform	5.0 U	5.0	1	12/14/23 19:13	
Bromomethane	5.0 U	5.0	1	12/14/23 19:13	
Carbon Disulfide	10 U	10	1	12/14/23 19:13	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 19:13	
Chlorobenzene	5.0 U	5.0	1	12/14/23 19:13	
Chloroethane	5.0 U	5.0	1	12/14/23 19:13	
Chloroform	5.0 U	5.0	1	12/14/23 19:13	
Chloromethane	5.0 U	5.0	1	12/14/23 19:13	
Cyclohexane	10 U	10	1	12/14/23 19:13	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 19:13	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 19:13	
Dichloromethane	5.0 U	5.0	1	12/14/23 19:13	
Ethylbenzene	5.0 U	5.0	1	12/14/23 19:13	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 19:13	
Methyl Acetate	10 U	10	1	12/14/23 19:13	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 19:13	
Methylcyclohexane	10 U	10	1	12/14/23 19:13	
Styrene	5.0 U	5.0	1	12/14/23 19:13	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 19:13	
Toluene	5.0 U	5.0	1	12/14/23 19:13	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:56
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R2311418-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 19:13	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 19:13	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 19:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:13	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:13	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 19:13	
o-Xylene	5.0 U	5.0	1	12/14/23 19:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:13	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/14/23 19:13	
Dibromofluoromethane	91	80 - 116	12/14/23 19:13	
Toluene-d8	95	87 - 121	12/14/23 19:13	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:52
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R2311418-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 19:35	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 19:35	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 19:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 19:35	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 19:35	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 19:35	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 19:35	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 19:35	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 19:35	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 19:35	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
1,4-Dioxane	100 U	100	1	12/14/23 19:35	
2-Butanone (MEK)	10 U	10	1	12/14/23 19:35	
2-Hexanone	10 U	10	1	12/14/23 19:35	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 19:35	
Acetone	10 U	10	1	12/14/23 19:35	
Benzene	5.0 U	5.0	1	12/14/23 19:35	
Bromochloromethane	5.0 U	5.0	1	12/14/23 19:35	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 19:35	
Bromoform	5.0 U	5.0	1	12/14/23 19:35	
Bromomethane	5.0 U	5.0	1	12/14/23 19:35	
Carbon Disulfide	10 U	10	1	12/14/23 19:35	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 19:35	
Chlorobenzene	5.0 U	5.0	1	12/14/23 19:35	
Chloroethane	5.0 U	5.0	1	12/14/23 19:35	
Chloroform	5.0 U	5.0	1	12/14/23 19:35	
Chloromethane	5.0 U	5.0	1	12/14/23 19:35	
Cyclohexane	10 U	10	1	12/14/23 19:35	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 19:35	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 19:35	
Dichloromethane	5.0 U	5.0	1	12/14/23 19:35	
Ethylbenzene	5.0 U	5.0	1	12/14/23 19:35	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 19:35	
Methyl Acetate	10 U	10	1	12/14/23 19:35	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 19:35	
Methylcyclohexane	10 U	10	1	12/14/23 19:35	
Styrene	5.0 U	5.0	1	12/14/23 19:35	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 19:35	
Toluene	5.0 U	5.0	1	12/14/23 19:35	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 08:52
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R2311418-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 19:35	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 19:35	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 19:35	
cis-1,2-Dichloroethene	**11**	5.0	1	12/14/23 19:35	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:35	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 19:35	
o-Xylene	5.0 U	5.0	1	12/14/23 19:35	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:35	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/14/23 19:35	
Dibromofluoromethane	93	80 - 116	12/14/23 19:35	
Toluene-d8	96	87 - 121	12/14/23 19:35	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 09:45
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2311418-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/15/23 16:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/15/23 16:25	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/15/23 16:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/15/23 16:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/15/23 16:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/15/23 16:25	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/15/23 16:25	
1,2-Dibromoethane	5.0 U	5.0	1	12/15/23 16:25	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
1,2-Dichloroethane	5.0 U	5.0	1	12/15/23 16:25	
1,2-Dichloropropane	5.0 U	5.0	1	12/15/23 16:25	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
1,4-Dioxane	100 U	100	1	12/15/23 16:25	
2-Butanone (MEK)	10 U	10	1	12/15/23 16:25	
2-Hexanone	10 U	10	1	12/15/23 16:25	
4-Methyl-2-pentanone	10 U	10	1	12/15/23 16:25	
Acetone	10 U	10	1	12/15/23 16:25	
Benzene	5.0 U	5.0	1	12/15/23 16:25	
Bromochloromethane	5.0 U	5.0	1	12/15/23 16:25	
Bromodichloromethane	5.0 U	5.0	1	12/15/23 16:25	
Bromoform	5.0 U	5.0	1	12/15/23 16:25	
Bromomethane	5.0 U	5.0	1	12/15/23 16:25	
Carbon Disulfide	10 U	10	1	12/15/23 16:25	
Carbon Tetrachloride	5.0 U	5.0	1	12/15/23 16:25	
Chlorobenzene	5.0 U	5.0	1	12/15/23 16:25	
Chloroethane	5.0 U	5.0	1	12/15/23 16:25	
Chloroform	5.0 U	5.0	1	12/15/23 16:25	
Chloromethane	5.0 U	5.0	1	12/15/23 16:25	
Cyclohexane	10 U	10	1	12/15/23 16:25	
Dibromochloromethane	5.0 U	5.0	1	12/15/23 16:25	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/15/23 16:25	
Dichloromethane	5.0 U	5.0	1	12/15/23 16:25	
Ethylbenzene	5.0 U	5.0	1	12/15/23 16:25	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/15/23 16:25	
Methyl Acetate	10 U	10	1	12/15/23 16:25	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/15/23 16:25	
Methylcyclohexane	10 U	10	1	12/15/23 16:25	
Styrene	5.0 U	5.0	1	12/15/23 16:25	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/15/23 16:25	
Toluene	5.0 U	5.0	1	12/15/23 16:25	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 09:45
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	R2311418-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**6.2**	5.0	1	12/15/23 16:25	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/15/23 16:25	
Vinyl Chloride	5.0 U	5.0	1	12/15/23 16:25	
cis-1,2-Dichloroethene	**54**	5.0	1	12/15/23 16:25	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/15/23 16:25	
m,p-Xylenes	5.0 U	5.0	1	12/15/23 16:25	
o-Xylene	5.0 U	5.0	1	12/15/23 16:25	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/15/23 16:25	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/15/23 16:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/15/23 16:25	
Dibromofluoromethane	96	80 - 116	12/15/23 16:25	
Toluene-d8	98	87 - 121	12/15/23 16:25	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 11:30
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2311418-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 19:57	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 19:57	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 19:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 19:57	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 19:57	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 19:57	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 19:57	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 19:57	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 19:57	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 19:57	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
1,4-Dioxane	100 U	100	1	12/14/23 19:57	
2-Butanone (MEK)	10 U	10	1	12/14/23 19:57	
2-Hexanone	10 U	10	1	12/14/23 19:57	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 19:57	
Acetone	10 U	10	1	12/14/23 19:57	
Benzene	5.0 U	5.0	1	12/14/23 19:57	
Bromochloromethane	5.0 U	5.0	1	12/14/23 19:57	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 19:57	
Bromoform	5.0 U	5.0	1	12/14/23 19:57	
Bromomethane	5.0 U	5.0	1	12/14/23 19:57	
Carbon Disulfide	10 U	10	1	12/14/23 19:57	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 19:57	
Chlorobenzene	5.0 U	5.0	1	12/14/23 19:57	
Chloroethane	5.0 U	5.0	1	12/14/23 19:57	
Chloroform	5.0 U	5.0	1	12/14/23 19:57	
Chloromethane	5.0 U	5.0	1	12/14/23 19:57	
Cyclohexane	10 U	10	1	12/14/23 19:57	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 19:57	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 19:57	
Dichloromethane	5.0 U	5.0	1	12/14/23 19:57	
Ethylbenzene	5.0 U	5.0	1	12/14/23 19:57	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 19:57	
Methyl Acetate	10 U	10	1	12/14/23 19:57	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 19:57	
Methylcyclohexane	10 U	10	1	12/14/23 19:57	
Styrene	5.0 U	5.0	1	12/14/23 19:57	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 19:57	
Toluene	5.0 U	5.0	1	12/14/23 19:57	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 11:30
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	R2311418-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 19:57	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 19:57	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 19:57	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:57	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:57	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 19:57	
o-Xylene	5.0 U	5.0	1	12/14/23 19:57	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 19:57	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 19:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/14/23 19:57	
Dibromofluoromethane	89	80 - 116	12/14/23 19:57	
Toluene-d8	92	87 - 121	12/14/23 19:57	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:57
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-19R	**Units:**	ug/L
Lab Code:	R2311418-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 20:20	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 20:20	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 20:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 20:20	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 20:20	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 20:20	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 20:20	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 20:20	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 20:20	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 20:20	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
1,4-Dioxane	100 U	100	1	12/14/23 20:20	
2-Butanone (MEK)	10 U	10	1	12/14/23 20:20	
2-Hexanone	10 U	10	1	12/14/23 20:20	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 20:20	
Acetone	10 U	10	1	12/14/23 20:20	
Benzene	5.0 U	5.0	1	12/14/23 20:20	
Bromochloromethane	5.0 U	5.0	1	12/14/23 20:20	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 20:20	
Bromoform	5.0 U	5.0	1	12/14/23 20:20	
Bromomethane	5.0 U	5.0	1	12/14/23 20:20	
Carbon Disulfide	10 U	10	1	12/14/23 20:20	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 20:20	
Chlorobenzene	5.0 U	5.0	1	12/14/23 20:20	
Chloroethane	5.0 U	5.0	1	12/14/23 20:20	
Chloroform	5.0 U	5.0	1	12/14/23 20:20	
Chloromethane	5.0 U	5.0	1	12/14/23 20:20	
Cyclohexane	10 U	10	1	12/14/23 20:20	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 20:20	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 20:20	
Dichloromethane	5.0 U	5.0	1	12/14/23 20:20	
Ethylbenzene	5.0 U	5.0	1	12/14/23 20:20	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 20:20	
Methyl Acetate	10 U	10	1	12/14/23 20:20	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 20:20	
Methylcyclohexane	10 U	10	1	12/14/23 20:20	
Styrene	5.0 U	5.0	1	12/14/23 20:20	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 20:20	
Toluene	5.0 U	5.0	1	12/14/23 20:20	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:57
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-19R	**Units:**	ug/L
Lab Code:	R2311418-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 20:20	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 20:20	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 20:20	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 20:20	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 20:20	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 20:20	
o-Xylene	5.0 U	5.0	1	12/14/23 20:20	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 20:20	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 20:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 20:20	
Dibromofluoromethane	92	80 - 116	12/14/23 20:20	
Toluene-d8	94	87 - 121	12/14/23 20:20	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2311418-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 20:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 20:42	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 20:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 20:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 20:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 20:42	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 20:42	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 20:42	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 20:42	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 20:42	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
1,4-Dioxane	100 U	100	1	12/14/23 20:42	
2-Butanone (MEK)	10 U	10	1	12/14/23 20:42	
2-Hexanone	10 U	10	1	12/14/23 20:42	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 20:42	
Acetone	10 U	10	1	12/14/23 20:42	
Benzene	5.0 U	5.0	1	12/14/23 20:42	
Bromochloromethane	5.0 U	5.0	1	12/14/23 20:42	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 20:42	
Bromoform	5.0 U	5.0	1	12/14/23 20:42	
Bromomethane	5.0 U	5.0	1	12/14/23 20:42	
Carbon Disulfide	10 U	10	1	12/14/23 20:42	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 20:42	
Chlorobenzene	5.0 U	5.0	1	12/14/23 20:42	
Chloroethane	5.0 U	5.0	1	12/14/23 20:42	
Chloroform	5.0 U	5.0	1	12/14/23 20:42	
Chloromethane	5.0 U	5.0	1	12/14/23 20:42	
Cyclohexane	10 U	10	1	12/14/23 20:42	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 20:42	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 20:42	
Dichloromethane	5.0 U	5.0	1	12/14/23 20:42	
Ethylbenzene	5.0 U	5.0	1	12/14/23 20:42	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 20:42	
Methyl Acetate	10 U	10	1	12/14/23 20:42	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 20:42	
Methylcyclohexane	10 U	10	1	12/14/23 20:42	
Styrene	5.0 U	5.0	1	12/14/23 20:42	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 20:42	
Toluene	5.0 U	5.0	1	12/14/23 20:42	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 10:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-20	**Units:**	ug/L
Lab Code:	R2311418-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 20:42	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 20:42	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 20:42	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 20:42	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 20:42	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 20:42	
o-Xylene	5.0 U	5.0	1	12/14/23 20:42	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 20:42	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 20:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/14/23 20:42	
Dibromofluoromethane	92	80 - 116	12/14/23 20:42	
Toluene-d8	96	87 - 121	12/14/23 20:42	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 11:58
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-21	**Units:**	ug/L
Lab Code:	R2311418-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 21:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 21:04	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 21:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 21:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 21:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 21:04	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 21:04	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 21:04	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 21:04	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 21:04	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
1,4-Dioxane	100 U	100	1	12/14/23 21:04	
2-Butanone (MEK)	10 U	10	1	12/14/23 21:04	
2-Hexanone	10 U	10	1	12/14/23 21:04	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 21:04	
Acetone	10 U	10	1	12/14/23 21:04	
Benzene	5.0 U	5.0	1	12/14/23 21:04	
Bromochloromethane	5.0 U	5.0	1	12/14/23 21:04	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 21:04	
Bromoform	5.0 U	5.0	1	12/14/23 21:04	
Bromomethane	5.0 U	5.0	1	12/14/23 21:04	
Carbon Disulfide	10 U	10	1	12/14/23 21:04	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 21:04	
Chlorobenzene	5.0 U	5.0	1	12/14/23 21:04	
Chloroethane	5.0 U	5.0	1	12/14/23 21:04	
Chloroform	5.0 U	5.0	1	12/14/23 21:04	
Chloromethane	5.0 U	5.0	1	12/14/23 21:04	
Cyclohexane	10 U	10	1	12/14/23 21:04	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 21:04	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 21:04	
Dichloromethane	5.0 U	5.0	1	12/14/23 21:04	
Ethylbenzene	5.0 U	5.0	1	12/14/23 21:04	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 21:04	
Methyl Acetate	10 U	10	1	12/14/23 21:04	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 21:04	
Methylcyclohexane	10 U	10	1	12/14/23 21:04	
Styrene	5.0 U	5.0	1	12/14/23 21:04	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 21:04	
Toluene	5.0 U	5.0	1	12/14/23 21:04	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23 11:58
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-21	**Units:**	ug/L
Lab Code:	R2311418-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 21:04	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 21:04	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 21:04	
cis-1,2-Dichloroethene	**16**	5.0	1	12/14/23 21:04	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 21:04	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 21:04	
o-Xylene	5.0 U	5.0	1	12/14/23 21:04	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 21:04	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 21:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	12/14/23 21:04	
Dibromofluoromethane	93	80 - 116	12/14/23 21:04	
Toluene-d8	95	87 - 121	12/14/23 21:04	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:13
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-1	**Units:**	ug/L
Lab Code:	R2311418-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 21:27	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 21:27	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 21:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 21:27	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 21:27	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 21:27	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 21:27	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 21:27	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 21:27	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 21:27	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
1,4-Dioxane	100 U	100	1	12/14/23 21:27	
2-Butanone (MEK)	10 U	10	1	12/14/23 21:27	
2-Hexanone	10 U	10	1	12/14/23 21:27	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 21:27	
Acetone	10 U	10	1	12/14/23 21:27	
Benzene	5.0 U	5.0	1	12/14/23 21:27	
Bromochloromethane	5.0 U	5.0	1	12/14/23 21:27	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 21:27	
Bromoform	5.0 U	5.0	1	12/14/23 21:27	
Bromomethane	5.0 U	5.0	1	12/14/23 21:27	
Carbon Disulfide	10 U	10	1	12/14/23 21:27	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 21:27	
Chlorobenzene	5.0 U	5.0	1	12/14/23 21:27	
Chloroethane	5.0 U	5.0	1	12/14/23 21:27	
Chloroform	5.0 U	5.0	1	12/14/23 21:27	
Chloromethane	5.0 U	5.0	1	12/14/23 21:27	
Cyclohexane	10 U	10	1	12/14/23 21:27	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 21:27	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 21:27	
Dichloromethane	5.0 U	5.0	1	12/14/23 21:27	
Ethylbenzene	5.0 U	5.0	1	12/14/23 21:27	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 21:27	
Methyl Acetate	10 U	10	1	12/14/23 21:27	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 21:27	
Methylcyclohexane	10 U	10	1	12/14/23 21:27	
Styrene	5.0 U	5.0	1	12/14/23 21:27	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 21:27	
Toluene	5.0 U	5.0	1	12/14/23 21:27	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:13
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-1	**Units:**	ug/L
Lab Code:	R2311418-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**830**	**E**	5.0	1	12/14/23 21:27	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	1	12/14/23 21:27	
Vinyl Chloride	5.0	U	5.0	1	12/14/23 21:27	
cis-1,2-Dichloroethene	**55**		5.0	1	12/14/23 21:27	
cis-1,3-Dichloropropene	5.0	U	5.0	1	12/14/23 21:27	
m,p-Xylenes	5.0	U	5.0	1	12/14/23 21:27	
o-Xylene	5.0	U	5.0	1	12/14/23 21:27	
trans-1,2-Dichloroethene	**16**		5.0	1	12/14/23 21:27	
trans-1,3-Dichloropropene	5.0	U	5.0	1	12/14/23 21:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 21:27	
Dibromofluoromethane	92	80 - 116	12/14/23 21:27	
Toluene-d8	94	87 - 121	12/14/23 21:27	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:13
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-1	**Units:**	ug/L
Lab Code:	R2311418-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	50 U	50	10	12/15/23 17:10	
1,1,2,2-Tetrachloroethane	50 U	50	10	12/15/23 17:10	
1,1,2-Trichloroethane	50 U	50	10	12/15/23 17:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	50 U	50	10	12/15/23 17:10	
1,1-Dichloroethane (1,1-DCA)	50 U	50	10	12/15/23 17:10	
1,1-Dichloroethene (1,1-DCE)	50 U	50	10	12/15/23 17:10	
1,2,3-Trichlorobenzene	50 U	50	10	12/15/23 17:10	
1,2,4-Trichlorobenzene	50 U	50	10	12/15/23 17:10	
1,2-Dibromo-3-chloropropane (DBCP)	50 U	50	10	12/15/23 17:10	
1,2-Dibromoethane	50 U	50	10	12/15/23 17:10	
1,2-Dichlorobenzene	50 U	50	10	12/15/23 17:10	
1,2-Dichloroethane	50 U	50	10	12/15/23 17:10	
1,2-Dichloropropane	50 U	50	10	12/15/23 17:10	
1,3-Dichlorobenzene	50 U	50	10	12/15/23 17:10	
1,4-Dichlorobenzene	50 U	50	10	12/15/23 17:10	
1,4-Dioxane	1000 U	1000	10	12/15/23 17:10	
2-Butanone (MEK)	100 U	100	10	12/15/23 17:10	
2-Hexanone	100 U	100	10	12/15/23 17:10	
4-Methyl-2-pentanone	100 U	100	10	12/15/23 17:10	
Acetone	100 U	100	10	12/15/23 17:10	
Benzene	50 U	50	10	12/15/23 17:10	
Bromochloromethane	50 U	50	10	12/15/23 17:10	
Bromodichloromethane	50 U	50	10	12/15/23 17:10	
Bromoform	50 U	50	10	12/15/23 17:10	
Bromomethane	50 U	50	10	12/15/23 17:10	
Carbon Disulfide	100 U	100	10	12/15/23 17:10	
Carbon Tetrachloride	50 U	50	10	12/15/23 17:10	
Chlorobenzene	50 U	50	10	12/15/23 17:10	
Chloroethane	50 U	50	10	12/15/23 17:10	
Chloroform	50 U	50	10	12/15/23 17:10	
Chloromethane	50 U	50	10	12/15/23 17:10	
Cyclohexane	100 U	100	10	12/15/23 17:10	
Dibromochloromethane	50 U	50	10	12/15/23 17:10	
Dichlorodifluoromethane (CFC 12)	50 U	50	10	12/15/23 17:10	
Dichloromethane	50 U	50	10	12/15/23 17:10	
Ethylbenzene	50 U	50	10	12/15/23 17:10	
Isopropylbenzene (Cumene)	50 U	50	10	12/15/23 17:10	
Methyl Acetate	100 U	100	10	12/15/23 17:10	
Methyl tert-Butyl Ether	50 U	50	10	12/15/23 17:10	
Methylcyclohexane	100 U	100	10	12/15/23 17:10	
Styrene	50 U	50	10	12/15/23 17:10	
Tetrachloroethene (PCE)	50 U	50	10	12/15/23 17:10	
Toluene	50 U	50	10	12/15/23 17:10	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 15:13
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-1	**Units:**	ug/L
Lab Code:	R2311418-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**730 D**	50	10	12/15/23 17:10	
Trichlorofluoromethane (CFC 11)	50 U	50	10	12/15/23 17:10	
Vinyl Chloride	50 U	50	10	12/15/23 17:10	
cis-1,2-Dichloroethene	**56 D**	50	10	12/15/23 17:10	
cis-1,3-Dichloropropene	50 U	50	10	12/15/23 17:10	
m,p-Xylenes	50 U	50	10	12/15/23 17:10	
o-Xylene	50 U	50	10	12/15/23 17:10	
trans-1,2-Dichloroethene	50 U	50	10	12/15/23 17:10	
trans-1,3-Dichloropropene	50 U	50	10	12/15/23 17:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/15/23 17:10	
Dibromofluoromethane	100	80 - 116	12/15/23 17:10	
Toluene-d8	103	87 - 121	12/15/23 17:10	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:21
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-2	**Units:**	ug/L
Lab Code:	R2311418-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 21:49	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 21:49	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 21:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 21:49	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 21:49	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 21:49	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 21:49	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 21:49	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 21:49	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 21:49	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
1,4-Dioxane	100 U	100	1	12/14/23 21:49	
2-Butanone (MEK)	10 U	10	1	12/14/23 21:49	
2-Hexanone	10 U	10	1	12/14/23 21:49	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 21:49	
Acetone	10 U	10	1	12/14/23 21:49	
Benzene	5.0 U	5.0	1	12/14/23 21:49	
Bromochloromethane	5.0 U	5.0	1	12/14/23 21:49	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 21:49	
Bromoform	5.0 U	5.0	1	12/14/23 21:49	
Bromomethane	5.0 U	5.0	1	12/14/23 21:49	
Carbon Disulfide	10 U	10	1	12/14/23 21:49	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 21:49	
Chlorobenzene	5.0 U	5.0	1	12/14/23 21:49	
Chloroethane	5.0 U	5.0	1	12/14/23 21:49	
Chloroform	5.0 U	5.0	1	12/14/23 21:49	
Chloromethane	5.0 U	5.0	1	12/14/23 21:49	
Cyclohexane	10 U	10	1	12/14/23 21:49	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 21:49	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 21:49	
Dichloromethane	5.0 U	5.0	1	12/14/23 21:49	
Ethylbenzene	5.0 U	5.0	1	12/14/23 21:49	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 21:49	
Methyl Acetate	10 U	10	1	12/14/23 21:49	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 21:49	
Methylcyclohexane	10 U	10	1	12/14/23 21:49	
Styrene	5.0 U	5.0	1	12/14/23 21:49	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 21:49	
Toluene	5.0 U	5.0	1	12/14/23 21:49	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 14:21
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-2	**Units:**	ug/L
Lab Code:	R2311418-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**22**	5.0	1	12/14/23 21:49	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 21:49	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 21:49	
cis-1,2-Dichloroethene	**99**	5.0	1	12/14/23 21:49	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 21:49	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 21:49	
o-Xylene	5.0 U	5.0	1	12/14/23 21:49	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 21:49	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 21:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	12/14/23 21:49	
Dibromofluoromethane	94	80 - 116	12/14/23 21:49	
Toluene-d8	95	87 - 121	12/14/23 21:49	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:56
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-3	**Units:**	ug/L
Lab Code:	R2311418-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 22:11	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 22:11	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 22:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 22:11	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 22:11	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 22:11	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 22:11	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 22:11	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 22:11	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 22:11	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
1,4-Dioxane	100 U	100	1	12/14/23 22:11	
2-Butanone (MEK)	10 U	10	1	12/14/23 22:11	
2-Hexanone	10 U	10	1	12/14/23 22:11	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 22:11	
Acetone	10 U	10	1	12/14/23 22:11	
Benzene	5.0 U	5.0	1	12/14/23 22:11	
Bromochloromethane	5.0 U	5.0	1	12/14/23 22:11	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 22:11	
Bromoform	5.0 U	5.0	1	12/14/23 22:11	
Bromomethane	5.0 U	5.0	1	12/14/23 22:11	
Carbon Disulfide	10 U	10	1	12/14/23 22:11	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 22:11	
Chlorobenzene	5.0 U	5.0	1	12/14/23 22:11	
Chloroethane	5.0 U	5.0	1	12/14/23 22:11	
Chloroform	5.0 U	5.0	1	12/14/23 22:11	
Chloromethane	5.0 U	5.0	1	12/14/23 22:11	
Cyclohexane	10 U	10	1	12/14/23 22:11	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 22:11	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 22:11	
Dichloromethane	5.0 U	5.0	1	12/14/23 22:11	
Ethylbenzene	5.0 U	5.0	1	12/14/23 22:11	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 22:11	
Methyl Acetate	10 U	10	1	12/14/23 22:11	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 22:11	
Methylcyclohexane	10 U	10	1	12/14/23 22:11	
Styrene	5.0 U	5.0	1	12/14/23 22:11	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 22:11	
Toluene	5.0 U	5.0	1	12/14/23 22:11	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:56
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-3	**Units:**	ug/L
Lab Code:	R2311418-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**28**	5.0	1	12/14/23 22:11	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 22:11	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 22:11	
cis-1,2-Dichloroethene	**12**	5.0	1	12/14/23 22:11	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:11	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 22:11	
o-Xylene	5.0 U	5.0	1	12/14/23 22:11	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 22:11	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 22:11	
Dibromofluoromethane	92	80 - 116	12/14/23 22:11	
Toluene-d8	94	87 - 121	12/14/23 22:11	

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-4	**Units:**	ug/L
Lab Code:	R2311418-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 22:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 22:34	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 22:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 22:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 22:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 22:34	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 22:34	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 22:34	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 22:34	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 22:34	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
1,4-Dioxane	100 U	100	1	12/14/23 22:34	
2-Butanone (MEK)	10 U	10	1	12/14/23 22:34	
2-Hexanone	10 U	10	1	12/14/23 22:34	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 22:34	
Acetone	10 U	10	1	12/14/23 22:34	
Benzene	5.0 U	5.0	1	12/14/23 22:34	
Bromochloromethane	5.0 U	5.0	1	12/14/23 22:34	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 22:34	
Bromoform	5.0 U	5.0	1	12/14/23 22:34	
Bromomethane	5.0 U	5.0	1	12/14/23 22:34	
Carbon Disulfide	10 U	10	1	12/14/23 22:34	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 22:34	
Chlorobenzene	5.0 U	5.0	1	12/14/23 22:34	
Chloroethane	5.0 U	5.0	1	12/14/23 22:34	
Chloroform	5.0 U	5.0	1	12/14/23 22:34	
Chloromethane	5.0 U	5.0	1	12/14/23 22:34	
Cyclohexane	10 U	10	1	12/14/23 22:34	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 22:34	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 22:34	
Dichloromethane	5.0 U	5.0	1	12/14/23 22:34	
Ethylbenzene	5.0 U	5.0	1	12/14/23 22:34	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 22:34	
Methyl Acetate	10 U	10	1	12/14/23 22:34	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 22:34	
Methylcyclohexane	10 U	10	1	12/14/23 22:34	
Styrene	5.0 U	5.0	1	12/14/23 22:34	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 22:34	
Toluene	5.0 U	5.0	1	12/14/23 22:34	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 13:20
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	DR-4	**Units:**	ug/L
Lab Code:	R2311418-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**18**	5.0	1	12/14/23 22:34	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 22:34	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 22:34	
cis-1,2-Dichloroethene	**7.5**	5.0	1	12/14/23 22:34	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:34	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 22:34	
o-Xylene	5.0 U	5.0	1	12/14/23 22:34	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 22:34	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	12/14/23 22:34	
Dibromofluoromethane	91	80 - 116	12/14/23 22:34	
Toluene-d8	93	87 - 121	12/14/23 22:34	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-1	**Units:**	ug/L
Lab Code:	R2311418-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 22:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 22:56	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 22:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 22:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 22:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 22:56	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 22:56	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 22:56	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 22:56	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 22:56	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
1,4-Dioxane	100 U	100	1	12/14/23 22:56	
2-Butanone (MEK)	10 U	10	1	12/14/23 22:56	
2-Hexanone	10 U	10	1	12/14/23 22:56	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 22:56	
Acetone	10 U	10	1	12/14/23 22:56	
Benzene	5.0 U	5.0	1	12/14/23 22:56	
Bromochloromethane	5.0 U	5.0	1	12/14/23 22:56	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 22:56	
Bromoform	5.0 U	5.0	1	12/14/23 22:56	
Bromomethane	5.0 U	5.0	1	12/14/23 22:56	
Carbon Disulfide	10 U	10	1	12/14/23 22:56	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 22:56	
Chlorobenzene	5.0 U	5.0	1	12/14/23 22:56	
Chloroethane	5.0 U	5.0	1	12/14/23 22:56	
Chloroform	5.0 U	5.0	1	12/14/23 22:56	
Chloromethane	5.0 U	5.0	1	12/14/23 22:56	
Cyclohexane	10 U	10	1	12/14/23 22:56	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 22:56	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 22:56	
Dichloromethane	5.0 U	5.0	1	12/14/23 22:56	
Ethylbenzene	5.0 U	5.0	1	12/14/23 22:56	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 22:56	
Methyl Acetate	10 U	10	1	12/14/23 22:56	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 22:56	
Methylcyclohexane	10 U	10	1	12/14/23 22:56	
Styrene	5.0 U	5.0	1	12/14/23 22:56	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 22:56	
Toluene	5.0 U	5.0	1	12/14/23 22:56	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:40
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-1	**Units:**	ug/L
Lab Code:	R2311418-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 22:56	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 22:56	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 22:56	
cis-1,2-Dichloroethene	**48**	5.0	1	12/14/23 22:56	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:56	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 22:56	
o-Xylene	5.0 U	5.0	1	12/14/23 22:56	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 22:56	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 22:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	12/14/23 22:56	
Dibromofluoromethane	93	80 - 116	12/14/23 22:56	
Toluene-d8	95	87 - 121	12/14/23 22:56	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:15
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-2	**Units:**	ug/L
Lab Code:	R2311418-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 23:18	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 23:18	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 23:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 23:18	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 23:18	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 23:18	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 23:18	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 23:18	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 23:18	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 23:18	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
1,4-Dioxane	100 U	100	1	12/14/23 23:18	
2-Butanone (MEK)	10 U	10	1	12/14/23 23:18	
2-Hexanone	10 U	10	1	12/14/23 23:18	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 23:18	
Acetone	10 U	10	1	12/14/23 23:18	
Benzene	5.0 U	5.0	1	12/14/23 23:18	
Bromochloromethane	5.0 U	5.0	1	12/14/23 23:18	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 23:18	
Bromoform	5.0 U	5.0	1	12/14/23 23:18	
Bromomethane	5.0 U	5.0	1	12/14/23 23:18	
Carbon Disulfide	10 U	10	1	12/14/23 23:18	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 23:18	
Chlorobenzene	5.0 U	5.0	1	12/14/23 23:18	
Chloroethane	5.0 U	5.0	1	12/14/23 23:18	
Chloroform	5.0 U	5.0	1	12/14/23 23:18	
Chloromethane	5.0 U	5.0	1	12/14/23 23:18	
Cyclohexane	10 U	10	1	12/14/23 23:18	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 23:18	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 23:18	
Dichloromethane	5.0 U	5.0	1	12/14/23 23:18	
Ethylbenzene	5.0 U	5.0	1	12/14/23 23:18	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 23:18	
Methyl Acetate	10 U	10	1	12/14/23 23:18	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 23:18	
Methylcyclohexane	10 U	10	1	12/14/23 23:18	
Styrene	5.0 U	5.0	1	12/14/23 23:18	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 23:18	
Toluene	5.0 U	5.0	1	12/14/23 23:18	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 12:15
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-2	**Units:**	ug/L
Lab Code:	R2311418-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 23:18	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 23:18	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 23:18	
cis-1,2-Dichloroethene	**33**	5.0	1	12/14/23 23:18	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 23:18	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 23:18	
o-Xylene	5.0 U	5.0	1	12/14/23 23:18	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 23:18	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 23:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/14/23 23:18	
Dibromofluoromethane	91	80 - 116	12/14/23 23:18	
Toluene-d8	94	87 - 121	12/14/23 23:18	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 09:23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-3	**Units:**	ug/L
Lab Code:	R2311418-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 23:41	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 23:41	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 23:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 23:41	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 23:41	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 23:41	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 23:41	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 23:41	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 23:41	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 23:41	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
1,4-Dioxane	100 U	100	1	12/14/23 23:41	
2-Butanone (MEK)	10 U	10	1	12/14/23 23:41	
2-Hexanone	10 U	10	1	12/14/23 23:41	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 23:41	
Acetone	10 U	10	1	12/14/23 23:41	
Benzene	5.0 U	5.0	1	12/14/23 23:41	
Bromochloromethane	5.0 U	5.0	1	12/14/23 23:41	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 23:41	
Bromoform	5.0 U	5.0	1	12/14/23 23:41	
Bromomethane	5.0 U	5.0	1	12/14/23 23:41	
Carbon Disulfide	10 U	10	1	12/14/23 23:41	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 23:41	
Chlorobenzene	5.0 U	5.0	1	12/14/23 23:41	
Chloroethane	5.0 U	5.0	1	12/14/23 23:41	
Chloroform	5.0 U	5.0	1	12/14/23 23:41	
Chloromethane	5.0 U	5.0	1	12/14/23 23:41	
Cyclohexane	10 U	10	1	12/14/23 23:41	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 23:41	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 23:41	
Dichloromethane	5.0 U	5.0	1	12/14/23 23:41	
Ethylbenzene	5.0 U	5.0	1	12/14/23 23:41	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 23:41	
Methyl Acetate	10 U	10	1	12/14/23 23:41	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 23:41	
Methylcyclohexane	10 U	10	1	12/14/23 23:41	
Styrene	5.0 U	5.0	1	12/14/23 23:41	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 23:41	
Toluene	5.0 U	5.0	1	12/14/23 23:41	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/07/23 09:23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	G-3	**Units:**	ug/L
Lab Code:	R2311418-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**6.9**	5.0	1	12/14/23 23:41	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 23:41	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 23:41	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 23:41	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 23:41	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 23:41	
o-Xylene	5.0 U	5.0	1	12/14/23 23:41	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 23:41	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 23:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 23:41	
Dibromofluoromethane	91	80 - 116	12/14/23 23:41	
Toluene-d8	94	87 - 121	12/14/23 23:41	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-X	**Units:**	ug/L
Lab Code:	R2311418-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	13 U	13	2.5	12/15/23 00:03	
1,1,2,2-Tetrachloroethane	13 U	13	2.5	12/15/23 00:03	
1,1,2-Trichloroethane	13 U	13	2.5	12/15/23 00:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	13 U	13	2.5	12/15/23 00:03	
1,1-Dichloroethane (1,1-DCA)	13 U	13	2.5	12/15/23 00:03	
1,1-Dichloroethene (1,1-DCE)	13 U	13	2.5	12/15/23 00:03	
1,2,3-Trichlorobenzene	13 U	13	2.5	12/15/23 00:03	
1,2,4-Trichlorobenzene	13 U	13	2.5	12/15/23 00:03	
1,2-Dibromo-3-chloropropane (DBCP)	13 U	13	2.5	12/15/23 00:03	
1,2-Dibromoethane	13 U	13	2.5	12/15/23 00:03	
1,2-Dichlorobenzene	13 U	13	2.5	12/15/23 00:03	
1,2-Dichloroethane	13 U	13	2.5	12/15/23 00:03	
1,2-Dichloropropane	13 U	13	2.5	12/15/23 00:03	
1,3-Dichlorobenzene	13 U	13	2.5	12/15/23 00:03	
1,4-Dichlorobenzene	13 U	13	2.5	12/15/23 00:03	
1,4-Dioxane	250 U	250	2.5	12/15/23 00:03	
2-Butanone (MEK)	25 U	25	2.5	12/15/23 00:03	
2-Hexanone	25 U	25	2.5	12/15/23 00:03	
4-Methyl-2-pentanone	25 U	25	2.5	12/15/23 00:03	
Acetone	25 U	25	2.5	12/15/23 00:03	
Benzene	13 U	13	2.5	12/15/23 00:03	
Bromochloromethane	13 U	13	2.5	12/15/23 00:03	
Bromodichloromethane	13 U	13	2.5	12/15/23 00:03	
Bromoform	13 U	13	2.5	12/15/23 00:03	
Bromomethane	13 U	13	2.5	12/15/23 00:03	
Carbon Disulfide	25 U	25	2.5	12/15/23 00:03	
Carbon Tetrachloride	13 U	13	2.5	12/15/23 00:03	
Chlorobenzene	13 U	13	2.5	12/15/23 00:03	
Chloroethane	13 U	13	2.5	12/15/23 00:03	
Chloroform	13 U	13	2.5	12/15/23 00:03	
Chloromethane	13 U	13	2.5	12/15/23 00:03	
Cyclohexane	25 U	25	2.5	12/15/23 00:03	
Dibromochloromethane	13 U	13	2.5	12/15/23 00:03	
Dichlorodifluoromethane (CFC 12)	13 U	13	2.5	12/15/23 00:03	
Dichloromethane	13 U	13	2.5	12/15/23 00:03	
Ethylbenzene	13 U	13	2.5	12/15/23 00:03	
Isopropylbenzene (Cumene)	13 U	13	2.5	12/15/23 00:03	
Methyl Acetate	25 U	25	2.5	12/15/23 00:03	
Methyl tert-Butyl Ether	13 U	13	2.5	12/15/23 00:03	
Methylcyclohexane	25 U	25	2.5	12/15/23 00:03	
Styrene	13 U	13	2.5	12/15/23 00:03	
Tetrachloroethene (PCE)	13 U	13	2.5	12/15/23 00:03	
Toluene	13 U	13	2.5	12/15/23 00:03	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-X	**Units:**	ug/L
Lab Code:	R2311418-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**580**	**E**	13	2.5	12/15/23 00:03	
Trichlorofluoromethane (CFC 11)	13	U	13	2.5	12/15/23 00:03	
Vinyl Chloride	13	U	13	2.5	12/15/23 00:03	
cis-1,2-Dichloroethene	**100**		13	2.5	12/15/23 00:03	
cis-1,3-Dichloropropene	13	U	13	2.5	12/15/23 00:03	
m,p-Xylenes	13	U	13	2.5	12/15/23 00:03	
o-Xylene	13	U	13	2.5	12/15/23 00:03	
trans-1,2-Dichloroethene	13	U	13	2.5	12/15/23 00:03	
trans-1,3-Dichloropropene	13	U	13	2.5	12/15/23 00:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/15/23 00:03	
Dibromofluoromethane	92	80 - 116	12/15/23 00:03	
Toluene-d8	94	87 - 121	12/15/23 00:03	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-X	**Units:**	ug/L
Lab Code:	R2311418-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	5	12/15/23 17:33	
1,1,2,2-Tetrachloroethane	25 U	25	5	12/15/23 17:33	
1,1,2-Trichloroethane	25 U	25	5	12/15/23 17:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	25 U	25	5	12/15/23 17:33	
1,1-Dichloroethane (1,1-DCA)	25 U	25	5	12/15/23 17:33	
1,1-Dichloroethene (1,1-DCE)	25 U	25	5	12/15/23 17:33	
1,2,3-Trichlorobenzene	25 U	25	5	12/15/23 17:33	
1,2,4-Trichlorobenzene	25 U	25	5	12/15/23 17:33	
1,2-Dibromo-3-chloropropane (DBCP)	25 U	25	5	12/15/23 17:33	
1,2-Dibromoethane	25 U	25	5	12/15/23 17:33	
1,2-Dichlorobenzene	25 U	25	5	12/15/23 17:33	
1,2-Dichloroethane	25 U	25	5	12/15/23 17:33	
1,2-Dichloropropane	25 U	25	5	12/15/23 17:33	
1,3-Dichlorobenzene	25 U	25	5	12/15/23 17:33	
1,4-Dichlorobenzene	25 U	25	5	12/15/23 17:33	
1,4-Dioxane	500 U	500	5	12/15/23 17:33	
2-Butanone (MEK)	50 U	50	5	12/15/23 17:33	
2-Hexanone	50 U	50	5	12/15/23 17:33	
4-Methyl-2-pentanone	50 U	50	5	12/15/23 17:33	
Acetone	50 U	50	5	12/15/23 17:33	
Benzene	25 U	25	5	12/15/23 17:33	
Bromochloromethane	25 U	25	5	12/15/23 17:33	
Bromodichloromethane	25 U	25	5	12/15/23 17:33	
Bromoform	25 U	25	5	12/15/23 17:33	
Bromomethane	25 U	25	5	12/15/23 17:33	
Carbon Disulfide	50 U	50	5	12/15/23 17:33	
Carbon Tetrachloride	25 U	25	5	12/15/23 17:33	
Chlorobenzene	25 U	25	5	12/15/23 17:33	
Chloroethane	25 U	25	5	12/15/23 17:33	
Chloroform	25 U	25	5	12/15/23 17:33	
Chloromethane	25 U	25	5	12/15/23 17:33	
Cyclohexane	50 U	50	5	12/15/23 17:33	
Dibromochloromethane	25 U	25	5	12/15/23 17:33	
Dichlorodifluoromethane (CFC 12)	25 U	25	5	12/15/23 17:33	
Dichloromethane	25 U	25	5	12/15/23 17:33	
Ethylbenzene	25 U	25	5	12/15/23 17:33	
Isopropylbenzene (Cumene)	25 U	25	5	12/15/23 17:33	
Methyl Acetate	50 U	50	5	12/15/23 17:33	
Methyl tert-Butyl Ether	25 U	25	5	12/15/23 17:33	
Methylcyclohexane	50 U	50	5	12/15/23 17:33	
Styrene	25 U	25	5	12/15/23 17:33	
Tetrachloroethene (PCE)	25 U	25	5	12/15/23 17:33	
Toluene	25 U	25	5	12/15/23 17:33	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	MW-X	**Units:**	ug/L
Lab Code:	R2311418-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**570**	**D**	25	5	12/15/23 17:33	
Trichlorofluoromethane (CFC 11)	25	U	25	5	12/15/23 17:33	
Vinyl Chloride	25	U	25	5	12/15/23 17:33	
cis-1,2-Dichloroethene	**100**	**D**	25	5	12/15/23 17:33	
cis-1,3-Dichloropropene	25	U	25	5	12/15/23 17:33	
m,p-Xylenes	25	U	25	5	12/15/23 17:33	
o-Xylene	25	U	25	5	12/15/23 17:33	
trans-1,2-Dichloroethene	25	U	25	5	12/15/23 17:33	
trans-1,3-Dichloropropene	25	U	25	5	12/15/23 17:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	12/15/23 17:33	
Dibromofluoromethane	101	80 - 116	12/15/23 17:33	
Toluene-d8	103	87 - 121	12/15/23 17:33	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	EB	**Units:**	ug/L
Lab Code:	R2311418-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 17:21	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 17:21	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 17:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 17:21	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 17:21	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 17:21	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 17:21	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 17:21	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 17:21	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 17:21	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
1,4-Dioxane	100 U	100	1	12/14/23 17:21	
2-Butanone (MEK)	10 U	10	1	12/14/23 17:21	
2-Hexanone	10 U	10	1	12/14/23 17:21	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 17:21	
Acetone	10 U	10	1	12/14/23 17:21	
Benzene	5.0 U	5.0	1	12/14/23 17:21	
Bromochloromethane	5.0 U	5.0	1	12/14/23 17:21	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 17:21	
Bromoform	5.0 U	5.0	1	12/14/23 17:21	
Bromomethane	5.0 U	5.0	1	12/14/23 17:21	
Carbon Disulfide	10 U	10	1	12/14/23 17:21	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 17:21	
Chlorobenzene	5.0 U	5.0	1	12/14/23 17:21	
Chloroethane	5.0 U	5.0	1	12/14/23 17:21	
Chloroform	5.0 U	5.0	1	12/14/23 17:21	
Chloromethane	5.0 U	5.0	1	12/14/23 17:21	
Cyclohexane	10 U	10	1	12/14/23 17:21	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 17:21	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 17:21	
Dichloromethane	5.0 U	5.0	1	12/14/23 17:21	
Ethylbenzene	5.0 U	5.0	1	12/14/23 17:21	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 17:21	
Methyl Acetate	10 U	10	1	12/14/23 17:21	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 17:21	
Methylcyclohexane	10 U	10	1	12/14/23 17:21	
Styrene	5.0 U	5.0	1	12/14/23 17:21	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 17:21	
Toluene	5.0 U	5.0	1	12/14/23 17:21	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	12/08/23
Sample Matrix:	Water	**Date Received:**	12/08/23 14:38
Sample Name:	EB	**Units:**	ug/L
Lab Code:	R2311418-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 17:21	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 17:21	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 17:21	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:21	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:21	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 17:21	
o-Xylene	5.0 U	5.0	1	12/14/23 17:21	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 17:21	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 17:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/14/23 17:21	
Dibromofluoromethane	92	80 - 116	12/14/23 17:21	
Toluene-d8	94	87 - 121	12/14/23 17:21	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 80 - 116	Toluene-d8 87 - 121
MW-11	R2311418-001	90	91	94
MW-11 DL	R2311418-001	96	93	97
MW-12	R2311418-002	92	92	94
MW-13	R2311418-003	90	88	92
MW-14	R2311418-004	92	92	95
MW-15	R2311418-005	93	91	95
MW-16	R2311418-006	93	93	96
MW-17	R2311418-007	99	96	98
MW-18	R2311418-008	90	89	92
MW-19R	R2311418-009	92	92	94
MW-20	R2311418-010	93	92	96
MW-21	R2311418-011	94	93	95
DR-1	R2311418-012	92	92	94
DR-1 DL	R2311418-012	104	100	103
DR-2	R2311418-013	94	94	95
DR-3	R2311418-014	92	92	94
DR-4	R2311418-015	91	91	93
G-1	R2311418-016	93	93	95
G-2	R2311418-017	90	91	94
G-3	R2311418-018	92	91	94
MW-X	R2311418-019	92	92	94
MW-X DL	R2311418-019	104	101	103
EB	R2311418-020	92	92	94
Lab Control Sample	RQ2316472-03	95	95	94
Method Blank	RQ2316472-04	91	91	92
Lab Control Sample	RQ2316500-03	96	96	95
Method Blank	RQ2316500-04	99	97	102

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316472-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/14/23 16:59	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/14/23 16:59	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/14/23 16:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/14/23 16:59	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/14/23 16:59	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/14/23 16:59	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/14/23 16:59	
1,2-Dibromoethane	5.0 U	5.0	1	12/14/23 16:59	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
1,2-Dichloroethane	5.0 U	5.0	1	12/14/23 16:59	
1,2-Dichloropropane	5.0 U	5.0	1	12/14/23 16:59	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
1,4-Dioxane	100 U	100	1	12/14/23 16:59	
2-Butanone (MEK)	10 U	10	1	12/14/23 16:59	
2-Hexanone	10 U	10	1	12/14/23 16:59	
4-Methyl-2-pentanone	10 U	10	1	12/14/23 16:59	
Acetone	10 U	10	1	12/14/23 16:59	
Benzene	5.0 U	5.0	1	12/14/23 16:59	
Bromochloromethane	5.0 U	5.0	1	12/14/23 16:59	
Bromodichloromethane	5.0 U	5.0	1	12/14/23 16:59	
Bromoform	5.0 U	5.0	1	12/14/23 16:59	
Bromomethane	5.0 U	5.0	1	12/14/23 16:59	
Carbon Disulfide	10 U	10	1	12/14/23 16:59	
Carbon Tetrachloride	5.0 U	5.0	1	12/14/23 16:59	
Chlorobenzene	5.0 U	5.0	1	12/14/23 16:59	
Chloroethane	5.0 U	5.0	1	12/14/23 16:59	
Chloroform	5.0 U	5.0	1	12/14/23 16:59	
Chloromethane	5.0 U	5.0	1	12/14/23 16:59	
Cyclohexane	10 U	10	1	12/14/23 16:59	
Dibromochloromethane	5.0 U	5.0	1	12/14/23 16:59	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/14/23 16:59	
Dichloromethane	5.0 U	5.0	1	12/14/23 16:59	
Ethylbenzene	5.0 U	5.0	1	12/14/23 16:59	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/14/23 16:59	
Methyl Acetate	10 U	10	1	12/14/23 16:59	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/14/23 16:59	
Methylcyclohexane	10 U	10	1	12/14/23 16:59	
Styrene	5.0 U	5.0	1	12/14/23 16:59	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/14/23 16:59	
Toluene	5.0 U	5.0	1	12/14/23 16:59	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316472-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/14/23 16:59	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/14/23 16:59	
Vinyl Chloride	5.0 U	5.0	1	12/14/23 16:59	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:59	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:59	
m,p-Xylenes	5.0 U	5.0	1	12/14/23 16:59	
o-Xylene	5.0 U	5.0	1	12/14/23 16:59	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/14/23 16:59	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/14/23 16:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	12/14/23 16:59	
Dibromofluoromethane	91	80 - 116	12/14/23 16:59	
Toluene-d8	92	87 - 121	12/14/23 16:59	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316500-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	12/15/23 13:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	12/15/23 13:13	
1,1,2-Trichloroethane	5.0 U	5.0	1	12/15/23 13:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	12/15/23 13:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	12/15/23 13:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	12/15/23 13:13	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	12/15/23 13:13	
1,2-Dibromoethane	5.0 U	5.0	1	12/15/23 13:13	
1,2-Dichlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
1,2-Dichloroethane	5.0 U	5.0	1	12/15/23 13:13	
1,2-Dichloropropane	5.0 U	5.0	1	12/15/23 13:13	
1,3-Dichlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
1,4-Dichlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
1,4-Dioxane	100 U	100	1	12/15/23 13:13	
2-Butanone (MEK)	10 U	10	1	12/15/23 13:13	
2-Hexanone	10 U	10	1	12/15/23 13:13	
4-Methyl-2-pentanone	10 U	10	1	12/15/23 13:13	
Acetone	10 U	10	1	12/15/23 13:13	
Benzene	5.0 U	5.0	1	12/15/23 13:13	
Bromochloromethane	5.0 U	5.0	1	12/15/23 13:13	
Bromodichloromethane	5.0 U	5.0	1	12/15/23 13:13	
Bromoform	5.0 U	5.0	1	12/15/23 13:13	
Bromomethane	5.0 U	5.0	1	12/15/23 13:13	
Carbon Disulfide	10 U	10	1	12/15/23 13:13	
Carbon Tetrachloride	5.0 U	5.0	1	12/15/23 13:13	
Chlorobenzene	5.0 U	5.0	1	12/15/23 13:13	
Chloroethane	5.0 U	5.0	1	12/15/23 13:13	
Chloroform	5.0 U	5.0	1	12/15/23 13:13	
Chloromethane	5.0 U	5.0	1	12/15/23 13:13	
Cyclohexane	10 U	10	1	12/15/23 13:13	
Dibromochloromethane	5.0 U	5.0	1	12/15/23 13:13	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	12/15/23 13:13	
Dichloromethane	5.0 U	5.0	1	12/15/23 13:13	
Ethylbenzene	5.0 U	5.0	1	12/15/23 13:13	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	12/15/23 13:13	
Methyl Acetate	10 U	10	1	12/15/23 13:13	
Methyl tert-Butyl Ether	5.0 U	5.0	1	12/15/23 13:13	
Methylcyclohexane	10 U	10	1	12/15/23 13:13	
Styrene	5.0 U	5.0	1	12/15/23 13:13	
Tetrachloroethene (PCE)	5.0 U	5.0	1	12/15/23 13:13	
Toluene	5.0 U	5.0	1	12/15/23 13:13	

Analytical Report

Client:	Colliers Engineering & Design (Formerly Bergmann Associates)	**Service Request:**	R2311418
Project:	Gowanda/6974.96	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2316500-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	12/15/23 13:13	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	12/15/23 13:13	
Vinyl Chloride	5.0 U	5.0	1	12/15/23 13:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1	12/15/23 13:13	
cis-1,3-Dichloropropene	5.0 U	5.0	1	12/15/23 13:13	
m,p-Xylenes	5.0 U	5.0	1	12/15/23 13:13	
o-Xylene	5.0 U	5.0	1	12/15/23 13:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1	12/15/23 13:13	
trans-1,3-Dichloropropene	5.0 U	5.0	1	12/15/23 13:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/15/23 13:13	
Dibromofluoromethane	97	80 - 116	12/15/23 13:13	
Toluene-d8	102	87 - 121	12/15/23 13:13	

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316472-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.1	20.0	105	75-125
1,1,2,2-Tetrachloroethane	8260C	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	20.1	20.0	100	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.3	20.0	107	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.6	20.0	98	69-142
1,2,3-Trichlorobenzene	8260C	20.9	20.0	105	67-136
1,2,4-Trichlorobenzene	8260C	20.4	20.0	102	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.6	20.0	103	55-136
1,2-Dibromoethane	8260C	20.7	20.0	104	82-127
1,2-Dichlorobenzene	8260C	20.7	20.0	104	80-119
1,2-Dichloroethane	8260C	19.2	20.0	96	71-127
1,2-Dichloropropane	8260C	20.6	20.0	103	80-119
1,3-Dichlorobenzene	8260C	21.1	20.0	105	83-121
1,4-Dichlorobenzene	8260C	20.8	20.0	104	79-119
1,4-Dioxane	8260C	368	400	92	44-154
2-Butanone (MEK)	8260C	17.3	20.0	87	61-137
2-Hexanone	8260C	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260C	18.9	20.0	94	66-124
Acetone	8260C	17.1	20.0	85	40-161
Benzene	8260C	20.4	20.0	102	79-119
Bromochloromethane	8260C	20.4	20.0	102	81-126
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	21.2	20.0	106	65-146
Bromomethane	8260C	19.9	20.0	100	42-166
Carbon Disulfide	8260C	17.9	20.0	90	66-128
Carbon Tetrachloride	8260C	20.5	20.0	102	70-127
Chlorobenzene	8260C	20.3	20.0	102	80-121
Chloroethane	8260C	16.3	20.0	82	62-131
Chloroform	8260C	20.7	20.0	104	79-120
Chloromethane	8260C	18.9	20.0	95	72-179
Cyclohexane	8260C	20.6	20.0	103	69-120
Dibromochloromethane	8260C	21.3	20.0	107	72-128

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96 **Date Analyzed:** 12/14/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316472-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	16.4	20.0	82	59-155
Dichloromethane	8260C	20.1	20.0	101	73-122
Ethylbenzene	8260C	21.3	20.0	107	76-120
Isopropylbenzene (Cumene)	8260C	21.0	20.0	105	77-128
Methyl Acetate	8260C	14.8	20.0	74	61-133
Methyl tert-Butyl Ether	8260C	19.4	20.0	97	75-118
Methylcyclohexane	8260C	21.4	20.0	107	51-129
Styrene	8260C	21.2	20.0	106	80-124
Tetrachloroethene (PCE)	8260C	21.5	20.0	107	72-125
Toluene	8260C	20.5	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.6	20.0	103	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.0	20.0	105	71-136
Vinyl Chloride	8260C	18.6	20.0	93	74-159
cis-1,2-Dichloroethene	8260C	20.4	20.0	102	80-121
cis-1,3-Dichloropropene	8260C	21.1	20.0	106	77-122
m,p-Xylenes	8260C	42.1	40.0	105	80-126
o-Xylene	8260C	21.3	20.0	107	79-123
trans-1,2-Dichloroethene	8260C	20.3	20.0	102	73-118
trans-1,3-Dichloropropene	8260C	22.0	20.0	110	71-133

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96 **Date Analyzed:** 12/15/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316500-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.8	20.0	99	75-125
1,1,2,2-Tetrachloroethane	8260C	17.7	20.0	89	78-126
1,1,2-Trichloroethane	8260C	18.0	20.0	90	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.3	20.0	96	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	101	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	17.1	20.0	85	69-142
1,2,3-Trichlorobenzene	8260C	20.3	20.0	101	67-136
1,2,4-Trichlorobenzene	8260C	20.5	20.0	103	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.8	20.0	89	55-136
1,2-Dibromoethane	8260C	19.1	20.0	96	82-127
1,2-Dichlorobenzene	8260C	20.0	20.0	100	80-119
1,2-Dichloroethane	8260C	19.6	20.0	98	71-127
1,2-Dichloropropane	8260C	20.1	20.0	100	80-119
1,3-Dichlorobenzene	8260C	20.4	20.0	102	83-121
1,4-Dichlorobenzene	8260C	20.1	20.0	100	79-119
1,4-Dioxane	8260C	338	400	84	44-154
2-Butanone (MEK)	8260C	16.0	20.0	80	61-137
2-Hexanone	8260C	17.7	20.0	88	63-124
4-Methyl-2-pentanone	8260C	18.4	20.0	92	66-124
Acetone	8260C	15.3	20.0	77	40-161
Benzene	8260C	19.8	20.0	99	79-119
Bromochloromethane	8260C	18.6	20.0	93	81-126
Bromodichloromethane	8260C	20.3	20.0	102	81-123
Bromoform	8260C	20.4	20.0	102	65-146
Bromomethane	8260C	18.5	20.0	93	42-166
Carbon Disulfide	8260C	17.4	20.0	87	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	19.7	20.0	99	80-121
Chloroethane	8260C	14.3	20.0	72	62-131
Chloroform	8260C	20.9	20.0	104	79-120
Chloromethane	8260C	20.1	20.0	101	72-179
Cyclohexane	8260C	22.0	20.0	110	69-120
Dibromochloromethane	8260C	19.9	20.0	100	72-128

Client: Colliers Engineering & Design (Formerly Bergmann Associates) **Service Request:** R2311418
Project: Gowanda/6974.96 **Date Analyzed:** 12/15/23
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2316500-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	18.6	20.0	93	59-155
Dichloromethane	8260C	19.5	20.0	98	73-122
Ethylbenzene	8260C	20.6	20.0	103	76-120
Isopropylbenzene (Cumene)	8260C	20.1	20.0	100	77-128
Methyl Acetate	8260C	13.8	20.0	69	61-133
Methyl tert-Butyl Ether	8260C	19.3	20.0	97	75-118
Methylcyclohexane	8260C	21.7	20.0	108	51-129
Styrene	8260C	19.8	20.0	99	80-124
Tetrachloroethene (PCE)	8260C	20.7	20.0	103	72-125
Toluene	8260C	19.6	20.0	98	79-119
Trichloroethene (TCE)	8260C	19.3	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.4	20.0	107	71-136
Vinyl Chloride	8260C	17.9	20.0	89	74-159
cis-1,2-Dichloroethene	8260C	18.9	20.0	94	80-121
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	77-122
m,p-Xylenes	8260C	40.2	40.0	101	80-126
o-Xylene	8260C	19.5	20.0	98	79-123
trans-1,2-Dichloroethene	8260C	18.8	20.0	94	73-118
trans-1,3-Dichloropropene	8260C	19.9	20.0	99	71-133

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FIELD FORMS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-1
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 5.52
Depth to bottom of the well: 16.02
Length of water column in well: 10.50

Volume of water in well casing, gallons: 1.7115
3 Well volumes (= length water column X gal/foot X 3): 5.13
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1018.2	NTU								
Temperature	7.9	°C								
pH	7.9									
Conductivity	0.006	SPC ms/cm								
Oxygen	11.48	DO mg/L								
Salinity										

Time sample was collected: 7:40

COMMENTS MW-X taken from this well.

GROUNDWATER SAMPLING WORKSHEET

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PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 4.8
Depth to bottom of the well: 17.15
Length of water column in well: 12.35

Volume of water in well casing, gallons: 2.01
3 Well volumes (= length water column X gal/foot X 3): 6.04
Actual volume purged prior to sampling: 6.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	N/A	NTU								
Temperature	12.4	°C								
pH	6.97									
Conductivity	0.724	SPC ms/cm								
Oxygen	3.89	DO mg/L								
Salinity										

Time sample was collected: 16:05

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-3
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 5.25
Depth to bottom of the well: 16.30
Length of water column in well: 11.05

Volume of water in well casing, gallons: 1.8
3 Well volumes (= length water column X gal/foot X 3): 5.40
Actual volume purged prior to sampling: 5.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	180.79	NTU								
Temperature	11.6	°C								
pH	6.3									
Conductivity	324.3	SPC ms/cm								
Oxygen	8.32	DO mg/L								
Salinity										

Time sample was collected: 15:40

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-4
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.53
Depth to bottom of the well: 15.78
Length of water column in well: 9.25

Volume of water in well casing, gallons: 1.5078
3 Well volumes (= length water column X gal/foot X 3): 4.5233
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	739.14	NTU								
Temperature	10.7	°C								
pH	6.93									
Conductivity	0.317	SPC ms/cm								
Oxygen	8.9	DO mg/L								
Salinity										

Time sample was collected: 7:10

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-5
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 10.32
Depth to bottom of the well: 13.95
Length of water column in well: 3.63

Volume of water in well casing, gallons: 0.59
3 Well volumes (= length water column X gal/foot X 3): 1.78
Actual volume purged prior to sampling: 2.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1335.9	NTU								
Temperature	13.5	°C								
pH	7.1									
Conductivity	0.008	SPC ms/cm								
Oxygen	7.14	DO mg/L								
Salinity										

Time sample was collected: 10:10

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 12.95
Depth to bottom of the well: 22.88
Length of water column in well: 9.93

Volume of water in well casing, gallons: 1.62
3 Well volumes (= length water column X gal/foot X 3): 4.86
Actual volume purged prior to sampling: 5.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1588.1	NTU								
Temperature	11.7	°C								
pH	7.2									
Conductivity	0.286	SPC ms/cm								
Oxygen	7.67	DO mg/L								
Salinity										

Time sample was collected: 10:05

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 13.05
Depth to bottom of the well: 21.8
Length of water column in well: 8.75

Volume of water in well casing, gallons: 1.4
3 Well volumes (= length water column X gal/foot X 3): 4.28
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1027	NTU								
Temperature	16.7	°C								
pH	6.55									
Conductivity	0.634	SPC ms/cm								
Oxygen	6.84	DO mg/L								
Salinity										

Time sample was collected: 8:30

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-8
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 8.9
Depth to bottom of the well: 17.65
Length of water column in well: 8.75

Volume of water in well casing, gallons: 1.43
3 Well volumes (= length water column X gal/foot X 3): 4.279
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	360.21	NTU								
Temperature	10.8	°C								
pH	6.84									
Conductivity	0.001	SPC ms/cm								
Oxygen	98.3	DO mg/L								
Salinity										

Time sample was collected: 6:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-9
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 8.34
Depth to bottom of the well: 20.96
Length of water column in well: 12.62

Volume of water in well casing, gallons: 2.06
3 Well volumes (= length water column X gal/foot X 3): 6.171
Actual volume purged prior to sampling: 6.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	214.97	NTU								
Temperature	9.3	°C								
pH	6.55									
Conductivity	0.873	SPC ms/cm								
Oxygen	58.7	DO mg/L								
Salinity										

Time sample was collected: 6:48

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.05
Depth to bottom of the well: 19.44
Length of water column in well: 13.39

Volume of water in well casing, gallons: 2.2
3 Well volumes (= length water column X gal/foot X 3): 6.55
Actual volume purged prior to sampling: 6.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	56.16	NTU								
Temperature	8.2	°C								
pH	7.37									
Conductivity	0.008	SPC ms/cm								
Oxygen	97.4	DO mg/L								
Salinity										

Time sample was collected: 8:10

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

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ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-11
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 5.7
Depth to bottom of the well: 15.48
Length of water column in well: 9.78

Volume of water in well casing, gallons: 1.5941
3 Well volumes (= length water column X gal/foot X 3): 4.7824
Actual volume purged prior to sampling: 5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	N/A	NTU								
Temperature	11.90	°C								
pH	7.31									
Conductivity	0.734	SPC ms/cm								
Oxygen	6.92	DO mg/L								
Salinity										

Time sample was collected: 15:24

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-12
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.15
Depth to bottom of the well: 17.38
Length of water column in well: 11.23

Volume of water in well casing, gallons: 1.83
3 Well volumes (= length water column X gal/foot X 3): 5.49
Actual volume purged prior to sampling: 5.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	421.83	NTU								
Temperature	12.9	°C								
pH	6.57									
Conductivity	0.486	SPC ms/cm								
Oxygen	3.61	DO mg/L								
Salinity										

Time sample was collected: 14:37

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.45
Depth to bottom of the well: 17.40
Length of water column in well: 10.95

Volume of water in well casing, gallons: 1.7849
3 Well volumes (= length water column X gal/foot X 3): 5.3546
Actual volume purged prior to sampling: 5.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	737.45	NTU								
Temperature	12.4	°C								
pH	6.97									
Conductivity	158.46	SPC ms/cm								
Oxygen	6.57	DO mg/L								
Salinity										

Time sample was collected: 14:49

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel:

GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 9.9
Depth to bottom of the well: 18.15
Length of water column in well: 8.25

Volume of water in well casing, gallons: 1.34
3 Well volumes (= length water column X gal/foot X 3): 4.03
Actual volume purged prior to sampling: 4.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1021.00	NTU								
Temperature	13.2	°C								
pH	6.68									
Conductivity	0.606	SPC ms/cm								
Oxygen	6.76	DO mg/L								
Salinity										

Time sample was collected: 13:31

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-15
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 10.2
Depth to bottom of the well: 19.80
Length of water column in well: 9.60

Volume of water in well casing, gallons: 1.5648
3 Well volumes (= length water column X gal/foot X 3): 4.69
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged?
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	682	NTU								
Temperature	14.2	°C								
pH	6.7									
Conductivity	0.572	SPC ms/cm								
Oxygen	6.14	DO mg/L								
Salinity										

Time sample was collected: 12:56

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-16
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 12.75
Depth to bottom of the well: 23.26
Length of water column in well: 10.51

Volume of water in well casing, gallons: 1.7131
3 Well volumes (= length water column X gal/foot X 3): 5.1394
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	298.33	NTU								
Temperature	9.7	°C								
pH	6.68									
Conductivity	0.004	SPC ms/cm								
Oxygen	6.88	DO mg/L								
Salinity										

Time sample was collected: 8:59

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-17
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 12.8
Depth to bottom of the well: 25.18
Length of water column in well: 12.38

Volume of water in well casing, gallons: 2.0179
3 Well volumes (= length water column X gal/foot X 3): 6.0538
Actual volume purged prior to sampling: 6.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	3215.6	NTU								
Temperature	10.8	°C								
pH	7.17									
Conductivity	0.505	SPC ms/cm								
Oxygen	8.65	DO mg/L								
Salinity										

Time sample was collected: 9:45

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-18
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 8.85
Depth to bottom of the well: 25.0
Length of water column in well: 16.15

Volume of water in well casing, gallons: 2.6325
3 Well volumes (= length water column X gal/foot X 3): 7.90
Actual volume purged prior to sampling: 8
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged?
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	1500.63	NTU								
Temperature	13	°C								
pH	7.41									
Conductivity	0.738	SPC ms/cm								
Oxygen	91.8	DO mg/L								
Salinity										

Time sample was collected: 11:30

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-19R
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 7.31
Depth to bottom of the well: 17.67
Length of water column in well: 10.36

Volume of water in well casing, gallons: 1.7
3 Well volumes (= length water column X gal/foot X 3): 5.07
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	980.52	NTU								
Temperature	11.8	°C								
pH	7.74									
Conductivity	7.424	SPC ms/cm								
Oxygen	10.34	DO mg/L								
Salinity										

Time sample was collected: 10:57

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-20
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 8.6
Depth to bottom of the well: 14.75
Length of water column in well: 6.15

Volume of water in well casing, gallons: 1.0025
3 Well volumes (= length water column X gal/foot X 3): 3.0
Actual volume purged prior to sampling: 3
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	325.31	NTU								
Temperature	13.2	°C								
pH	7.02									
Conductivity	118.57	SPC ms/cm								
Oxygen	8.64	DO mg/L								
Salinity										

Time sample was collected: 10:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-21
Location:
Casing Diameter: 2"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 7.92
Depth to bottom of the well: 15.82
Length of water column in well: 7.9

Volume of water in well casing, gallons: 1.2877
3 Well volumes (= length water column X gal/foot X 3): 3.86
Actual volume purged prior to sampling: 4
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	725.53	NTU								
Temperature	12.6	°C								
pH	6.97									
Conductivity	1.637	SPC ms/cm								
Oxygen	6.31	DO mg/L								
Salinity										

Time sample was collected: 11:58

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-1
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.7
Depth to bottom of the well: 18.06
Length of water column in well: 11.36

Volume of water in well casing, gallons: 7.4181
3 Well volumes (= length water column X gal/foot X 3): 22.254
Actual volume purged prior to sampling: 22.33
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	144.79	NTU								
Temperature	11	°C								
pH	7.27									
Conductivity	0.257	SPC ms/cm								
Oxygen	2.18	DO mg/L								
Salinity										

Time sample was collected: 15:13

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-2
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 6.5
Depth to bottom of the well: 18.06
Length of water column in well: 11.56

Volume of water in well casing, gallons: 7.5487
3 Well volumes (= length water column X gal/foot X 3): 22.65
Actual volume purged prior to sampling: 22.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	387.54	NTU								
Temperature	13.43	°C								
pH	7.02									
Conductivity	0.387	SPC ms/cm								
Oxygen	3.25	DO mg/L								
Salinity										

Time sample was collected: 14:21

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-3
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 11.3
Depth to bottom of the well: 20.45
Length of water column in well: 9.15

Volume of water in well casing, gallons: 6.0
3 Well volumes (= length water column X gal/foot X 3): 17.925
Actual volume purged prior to sampling: 18.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	291.63	NTU								
Temperature	13.5	°C								
pH	6.66									
Conductivity	0.606	SPC ms/cm								
Oxygen	47.00	DO mg/L								
Salinity										

Time sample was collected: 13:56

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 61 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-4
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 11.25
Depth to bottom of the well: 19.69
Length of water column in well: 8.44

Volume of water in well casing, gallons: 5.51
3 Well volumes (= length water column X gal/foot X 3): 16.53
Actual volume purged prior to sampling: 16.75
Sampling Methodology:
Sampling Equipment: Hand bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	868	NTU								
Temperature	13.2	°C								
pH	6.7									
Conductivity	0.577	SPC ms/cm								
Oxygen	5.44	DO mg/L								
Salinity										

Time sample was collected: 13:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-1
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 11.47
Depth to bottom of the well: 22.98
Length of water column in well: 11.51

Volume of water in well casing, gallons: 7.516
3 Well volumes (= length water column X gal/foot X 3): 22.55
Actual volume purged prior to sampling: 22.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	164.34	NTU								
Temperature	15.6	°C								
pH	6.86									
Conductivity	0.533	SPC ms/cm								
Oxygen	9.78	DO mg/L								
Salinity										

Time sample was collected: 12:40

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/7/2023
Weather: 33 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-2
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 11.5
Depth to bottom of the well: 20.72
Length of water column in well: 9.22

Volume of water in well casing, gallons: 6.0207
3 Well volumes (= length water column X gal/foot X 3): 18.062
Actual volume purged prior to sampling: 18.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	123.6	NTU								
Temperature	14.3	°C								
pH	6.89									
Conductivity	967	SPC ms/cm								
Oxygen	3.27	DO mg/L								
Salinity										

Time sample was collected: 12:15

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

PROJECT NAME: Gowanda Q4 2023
Project Number: 23006924A
Site Location: Gowanda, New York
Sample Date: 12/8/2023
Weather: 43 Degrees F
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-3
Location:
Casing Diameter: 4"

Well Dia.	Volume/Foot
1" =	0.041 gal/foot
2" =	0.163 gal/foot
4" =	0.653 gal/foot
6" =	1.469 gal/foot
8" =	2.611 gal/foot

Depth to water, below top of casing: 9.89
Depth to bottom of the well: 18.15
Length of water column in well: 8.26

Volume of water in well casing, gallons: 5.39
3 Well volumes (= length water column X gal/foot X 3): 16.18
Actual volume purged prior to sampling: 16.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons									
Parameter:										
Turbidity	102.11	NTU								
Temperature	11	°C								
pH	7.51									
Conductivity	0.258	SPC ms/cm								
Oxygen	10	DO mg/L								
Salinity										

Time sample was collected: 9:23

COMMENTS

CALIBRATION SHEETS

Eco-Rental Solutions

Calibration Certificate

rev 8/9/11

Work Order No.: SE-125221
Date of Service: 12/05/23
Order Time: 9:20:48 AM

Unit Under Test: YSI ProDSS, 4M with Flow Cell

Asset No.: FA03313 Technician: Haley Steinbruckner Initials: _____
Serial No: 17J100574/18D100738

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. 2GK874 Exp. 11/2023	1
pH 10.00 Standard Solution	Lot No. 3GE0965 Exp. 05/2025	1
pH 4.00 Standard Solution	Lot No. 2GA766 Exp. 01/2024	1
pH 7.00 Standard Solution	Lot No. 3GE1252 Exp. 05/2025	1
ORP Standard Solution	Lot No. 23D100185 Exp. 04/11/2028	1
Turbidity Free Water	Lot No. 3GF0946 Exp. 06/2025	1
100 NTU AMCO Turbidity Standard	Lot No. 22420023 Exp. 05/2024	1
Air Saturated Water		1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.