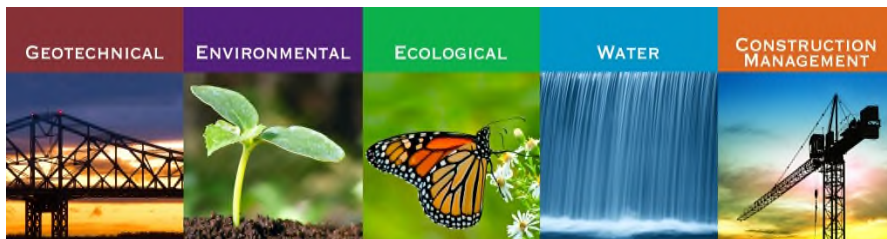




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SEPTEMBER 2022
GROUNDWATER MONITORING REPORT
BCP SITE C932138
GM COMPONENTS HOLDINGS, LLC
200 Upper Mountain Road
Lockport, New York

August 15, 2023
File No. 21.0056546.20



PREPARED FOR:
New York State Department of Environmental
Conservation

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VIA EMAIL

August 15, 2023
File No: 21.0056546.20

Mr. Glenn May, CPG
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
700 Delaware Avenue
Buffalo, New York 14209
glenn.may@dec.ny.gov

RE: September 2022 Groundwater Monitoring Report
Brownfield Cleanup Program (BCP) Site C932138
GM Components Holdings, LLC
200 Upper Mountain Road
Lockport, NY 14094

Mr. May:

GZA GeoEnvironmental of New York (GZA) is pleased to provide the attached September 2022 Groundwater Monitoring Report for BCP Site C932138.

We hope this report satisfies your present needs. If you need additional information, please contact Thomas Bohlen at 716-844-7050.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen, P.G.
Project Manager

Jeremiah Duncan, Ph.D
Senior Chemist/Consultant Reviewer

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Principal



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1.0 INTRODUCTION AND BACKGROUND

On behalf of GM Components Holdings LLC (GMCH), GZA GeoEnvironmental of New York (GZA) prepared this September 2022 Groundwater Monitoring Report, which summarizes annual monitoring conducted at the GMCH Lockport facility, 200 Upper Mountain Road, Lockport, New York (Brownfield Cleanup Program (BCP) Site No. C932138). The groundwater sampling was conducted from September 26, 2022 through October 7, 2022 and included 25 monitoring wells (**Figure 1**). Eleven of the wells are proximate to Building 7 (MW-7-1R, -7-2, -7-3, -7-4, -7-5, -7-6, -7-7, -7-8, 7-A-6, -7-C-2, and -7-P-1). Eight wells are proximate to Building 8 (MW-6-1, -6-2, -6-F-8, -8-1, -8-2, -8-3, -8-4, and -8-003-B) and six wells are proximate to Building 10 (BLDG 10 MW-1, MW-10-2, -10-3, -9-101-A, -9-12, and TK-6). Groundwater elevations were collected during the sampling event. **Figure 2** depicts groundwater contours generated from water level measurements collected on September 19, 2022.

GMCH entered into three Brownfield Cleanup Agreements (BCAs) with the New York State Department of Environmental Conservation (NYSDEC) in May 2010. A BCP Remedial Investigation (RI) was conducted at the Building 7, 8, and 10 BCP Sites from December 2010 through spring 2011, in accordance with the NYSDEC approved RI Work Plans for the three sites. The BCP Remedial Investigation Reports (RIRs; Haley & Aldrich/GZA, November 2011) for Buildings 7, 8, and 10 were approved by NYSDEC in letters dated November 29, 2011.

The Building 7 BCP Site (C932138) was consolidated with the historical Building 8 (C932139) and Building 10 (C932140) sites as BCP Site C932138. BCP agreements for Sites C932139 and C932140 were withdrawn from the BCP. BCP Site consolidation of the three individual sites into one BCP Site was approved by NYSDEC in June 2014.

As specified in the Decision Document (DD) issued by NYSDEC on June 14, 2016, GMCH implemented the Site remedy for groundwater which included the in-situ injection of a chemical reducing agent (zero valent iron [ZVI]) and biostimulation amendments (emulsified vegetable oil [EVO]). The in-situ chemical reducing (ISCR) agent and biostimulation amendment were injected via remedial injection wells, located between Buildings 7 and 10, in June 2016.

A Site Management Plan (SMP) was prepared for the combined BCP Site C932138, which included a summary of the groundwater monitoring program, a Field Sampling Plan (FSP), and a Quality Assurance Project Plan (QAPP). The SMP was approved by NYSDEC on December 2, 2016. Relative to the groundwater monitoring, the BCP Site SMP is generally consistent with the SMP of the adjoining Delphi Harrison Thermal Systems (DHTS) Site (Registry Site 932113). Groundwater monitoring at the combined BCP Site has been in accordance with the NYSDEC approved BCP Site SMP since May 2017.

2.0 GROUNDWATER MONITORING AND SAMPLING

The September-October 2022 groundwater sampling and analytical parameters were in accordance with the combined BCP Site SMP. In addition to the MNA parameters identified in the SMP, carbon dioxide (CO₂), ethane, and ethene were analyzed to help further evaluate the fate and transport of total organic carbon (TOC) and vinyl chloride (a reductive dechlorination daughter product of the parent compound tetrachloroethene (PCE). Vinyl chloride sequentially degrades to ethene, ethane, and CO₂ under reductive conditions.



METHODOLOGY

An organic vapor meter (OVM), equipped with photoionization detector (PID) and a 10.6 electron volt (eV) ultraviolet lamp, was used to screen for volatile organics in air at the top of the well riser immediately following the removal of each monitoring well riser cap. OVM readings were recorded on each respective monitoring well field sampling log (**Appendix A**). OVM readings did not exceed 0.3 parts per million (ppm) above background concentrations (0.0 ppm) and no odors were noted in the breathing space during sampling.

The wells were sampled using a Geotech® Geopump II peristaltic pump. Prior to initiation of each well purge, a static water level was measured from the top of the monitoring well riser and recorded on the monitoring well sampling log. At each monitoring well location, new polyethylene tubing was lowered into the monitoring well and positioned with the bottom of the tubing at the approximate vertical center of the well screen. Following the sampling, GZA measured and documented the depth of each monitoring well, which were consistent with the information provided on the existing monitoring well logs.

The peristaltic pump was started and operated at a flow rate that minimized draw-down of the water column within the well. The first set of water quality readings were collected when the flow-through cell was full and water began to flow out. Once a constant head was established, the pumping flow rate was not altered. Sampling flow rates were kept consistent with purging/monitoring flow rates. Readings were recorded on well development forms in the field, once a constant head had been established. Readings were continuously recorded every five minutes, until water quality readings stabilized for three successive readings, which generally consisted of ± 0.1 for pH, $\pm 3\%$ for conductivity, ± 10 mV for oxidation reduction potential (ORP) and $\pm 10\%$ for turbidity and dissolved oxygen (DO).

Groundwater samples were collected for lab analysis once a constant head was established, the water quality readings had stabilized and/or at least one well volume was removed. The polyethylene tubing from the pump to the water quality meter was disconnected and used to fill the appropriate groundwater sample containers provided by the laboratory. Groundwater collected for analysis did not enter the flow-through cell.

After the appropriate sample containers were filled, the pump was shut off and the tubing was removed from the monitoring well and pump-head. The tubing was then disposed as a solid waste. The flow-through cell and water quality meter were rinsed with de-ionized water prior to use at each well.

A stable water level could not be established in four monitoring wells (MW-7-2, -7-4, -7-8, and -8-3). These wells were purged to dry-like conditions and allowed to recharge for at least 24-hours and/or until the water level recovered prior to sampling.

Analytical Parameters

Chlorinated Organic Compounds of Concern (COCs):

- tetrachloroethylene (PCE);
- trichloroethylene (TCE);
- *cis*-1,2-dichloroethylene (*cis*-DCE) and *trans*-1,2-dichloroethylene (*trans*-DCE); and
- vinyl chloride (VC).



Inorganics:

- iron;
- magnesium;
- manganese;
- potassium;
- sodium;

Natural Attenuation Parameters:

- methane;
- ethane;
- ethene;
- carbon dioxide;
- total organic carbon (TOC);
- alkalinity;
- ammonia;
- chloride;
- nitrate;
- nitrite;
- sulfate; and
- sulfide.

Field Measured Parameters:

- temperature;
- specific conductance;
- dissolved oxygen (DO);
- oxidation reduction potential (ORP);
- pH; and
- turbidity.

Figure 1 provides a Site map with monitoring well locations. **Table 1** provides a summary of the validated groundwater sample analytical results. Monitoring Well Observations and Groundwater Sampling Logs are included in **Appendix A**. A tabular and graphic summary of current and previous sampling event results by well are included in **Appendix B**. A Data Quality Assessment and Verification Report prepared by GHD is provided in **Appendix C**. **Appendix D** contains a table with the strength of evidence scorecard for natural attenuation at the individual monitoring well locations. The anaerobic biodegradation screening tables were developed by Wiedemeier *et. al.*, 1998¹, to evaluate MNA performance data. **Appendix E** is a Well Condition Summary Table. The Analytical Data Reports prepared by Eurofins Test America Laboratory are included in **Appendix F**.

¹ Wiedemeier, T.H., Swanson, M.A., Moutoux, D.E., Gordon, E.K., Wilson, J.T., Wilson, B.H., Kampbell, D.H., Haas, P.E., Miller, R.N., Hansen, J.E., and Chapelle, F.H., 1998, Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, EPA/600/R-98/128, 78 p.



3.0 ANALYTICAL RESULTS AND DISCUSSION

The analytical results for the 25 sampled wells are summarized in **Table 1** and shown on **Figure 4**. Results are discussed below.

Building 7

Eleven monitoring wells were sampled proximate to Building 7:

Potential Source Area wells: MW-7-7 and MW-7-A-6;
Mid-Plume Area wells: MW-7-P-1, MW-7-5, MW-7-6, MW-7-C-2, and MW-7-8;
Downgradient Area wells: MW-7-1R, MW-7-2, MW-7-3, and MW-7-4.

Potential Source Area Wells:

The 2022 results for the two potential source area wells (proximate to the exterior western wall of Building 7) indicate that biological reductive dechlorination is continuing in this area, following the in situ treatment in June 2016. The ORP in MW-7-7 has been strongly reducing since June 2016 (< -235.5 mV), and in MW-7-A-6 it has also been strongly reducing, although it was less so in the 2022 sampling (< -145.1 mV prior to 2022; -83.4 mV in 2022). These data, along with low dissolved oxygen (< 0.2 mg/L in both wells in 2022), are indicative of a favorable environment for the dechlorinating microbes. Additionally, production of daughter products, including 1,2-DCE, VC, and ethene is evident. In MW-7-7, these compounds made up 35.5%, 11.0%, and 2.0% (by molar concentration), respectively, of the total ethenes, while in MW-7-A-6 they were 44.8%, 38.2%, and 9.3%, respectively (See **Appendix B** for data and figures). These proportions have remained relatively constant over the last three to four sampling periods, although both the real amount and proportion of VC in MW-7-A-6 have trended upward. Finally, concentrations of both CO_2 and chloride—final products of the mineralization of chlorinated solvents—have trended upward in both wells. In June 2022, CO_2 was measured at 66 and 420 mg/L in MW-7-7 and MW-7-A-6, respectively, and chloride was 4,020 and 1,710 mg/L, respectively.

Although initially showing decreases following the 2016 treatments, PCE concentrations in both MW-7-7 and MW-7-A-6 have trended upward over the last few years of sampling. In June 2022, PCE was measured at 68,000 and 48,000 $\mu\text{g/L}$, respectively, in the wells. While still less than historical values prior to treatment ($\geq 120,000$ $\mu\text{g/L}$ in both wells), this is indicative of a potential LNAPL source. It is noted that PCE was found at 140,000 $\mu\text{g/L}$ in the upgradient BLDG-10-MW-1 well, which is consistent with historical measurements here (see Building 10 discussion below).

Mid-Plume Area Wells:

Wells MW-7-5 and MW-7-8 showed some increases in COCs in 2022. Concentrations of PCE in groundwater analyzed from MW-7-5 have trended upward since the remedial treatment in June 2016 (despite a potentially anomalous, historical low of 48 $\mu\text{g/L}$ in 2020) and at 10,000 $\mu\text{g/L}$ in June 2022, are near historical highs. TCE and 1,2-DCE in MW-7-5 have also similarly increased over the last couple of sampling rounds, and in June 2022 were detected at 860 and 590 $\mu\text{g/L}$, respectively. COCs in groundwater analyzed from MW-7-8 have also recently trended upward and were at higher concentrations in 2022 than in 2021 (PCE = 820 $\mu\text{g/L}$, TCE = 340 $\mu\text{g/L}$, 1,2-DCE = 440 $\mu\text{g/L}$, and VC = 220 $\mu\text{g/L}$). VC concentrations from MW-7-C-2 were higher in 2022 (140 ppb) than in previous monitoring events. The other three mid-plume wells (MW-7-P-1, MW-7-6, and MW-7-C-2) showed similar COC concentrations to those seen over the last few years. MW-7-P-1 has consistently had low levels of COCs, and in June 2022, there were no detections of PCE or TCE,



while 1,2-DCE was measured at 4.4 µg/L and VC at 2.3 µg/L. COC concentrations in MW-7-6 are consistent with historical levels (PCE = 630 µg/L, TCE = 340 µg/L, 1,2-DCE = 750 µg/L, and VC = 13 µg/L), and while concentrations of PCE, TCE, and 1,2-DCE are consistent with historical levels in MW-7-C-2 (ND, ND, and 300 µg/L, respectively), VC was measured at 140 µg/L, which is more than in 2021 (44 µg/L) and highest recorded in this well since 2011.

Unlike in the potential source area wells, there is less indication of biotic reductive dechlorination in the mid-plume area wells MW-7-5 and MW-7-6. The screening scores (**Appendix D**) indicate limited evidence of anaerobic biodegradation in MW-7-5 and adequate evidence in MW-7-6. However, these scores are based in part on the presence of certain chemical species, which could be from upgradient wells. ORP measurements are not favorable for reductive dechlorination (+64.8 mV in MW-7-5 and +24.9 mV in MW-7-6), and while there are detections of daughter products, both the concentrations and molar fractions have remained mostly constant over time (**Appendix B**). Additionally, concentrations of VC (ND in MW-7-5 and 13 µg/L in MW-7-6) and ethene (ND in both wells) were low in the June 2022 sampling round, while concentrations of CO₂ (84 mg/L in MW-7-5 and 44 mg/L in MW-7-6) and chloride (9,220 mg/L in MW-7-5 and 12,700 mg/L in MW-7-6) were higher than pre-treatment levels, having trended upward in recent years.

Field and analytical measurements of groundwater in MW-7-8 indicate a fluctuating environment since 2016, with ORP measurements spanning from mildly oxidizing (+8.5 mV in 2018) to reducing (-190 mV in 2017, -160.2 mV in 2021, -80.7 in 2022), and inconsistent concentrations of COCs. In some years (*e.g.*, 2017 and 2019), concentrations and the fraction of daughter products (1,2-DCE and VC) have increased, while those of PCE and TCE decreased, indicating that biotic degradation of chlorinated solvents may be occurring at times in this well. In 2022, concentrations of all four chlorinated ethenes increased slightly compared to 2021.

The occurrence of biotic degradation of chlorinated solvents in the mid-plume wells MW-7-P-1 and MW-7-C-2 is unclear. Since June 2016, they have consistently had ORP readings indicating reducing conditions (MW-7-P-1: -123.7 – -70.5 mV; MW-7-C-1: -165.1 – -34.6 mV), their MNA screening scores indicate adequate evidence of anaerobic biodegradation, and they have had consistently low or no PCE and TCE, with consistent detections of daughter products 1,2-DCE and VC (see above). However, although the reducing environment could support dechlorinating microbes, the flat trends in the data, including no detections of ethene, do not indicate vigorous biotic dechlorination is occurring.

Downgradient Area Wells:

Samples from three of the four downgradient wells (MW-7-1R, MW-7-2, and MW-7-3) contained no COCs at concentrations above the PQLs, or above their respective Class GA criteria². Concentrations of TCE in well MW-7-4 (15 ppb) exceeded its Class GA criteria (5 ppb) for the first time since 2011. In reviewing other analytical data from MW-7-4, it is noted that both CO₂ and chloride have been trending upward since the remedial treatments of June 2016, and were measured at historical maxima of 40 mg/L and 587 mg/L, respectively, in 2022. These analytes, particularly chloride, have also been trending upward recently in the other downgradient wells and in the mid-plume wells (above).

² NYSDEC Class GA Groundwater criteria presented in the Division of Water Technical and Operational Guidance Series (TOGS 1.1.), dated October 1993, reissued June 1998, errata January 1999, April 2000 Addendum and June 2004 Addendum (Class GA).



Indicators of natural attenuation proximate to Building 7 include:

- a significant decrease in COC concentrations from the potential source area to mid-plume with continued reduction to downgradient on-Site areas;
- the presence of daughter compounds *cis*-DCE, VC, in the mid-point of the plume; and,
- evidence of reductive dechlorination in the Building 7 wells in the potential source and mid-plume area based on the anaerobic biodegradation screening table (**Appendix D**).

Building 8

Eight monitoring wells were sampled proximate to Building 8 (MW-6-1, -6-2, -6-F-8, -8-1, -8-2, -8-3, -8-4, and -8-003-B; **Figure 1**).

The highest total COC concentrations have consistently been detected in MW-8-2 (9,500 µg/L in 2022) and MW-8-003-B (3,320 µg/L in 2022). The concentrations of COCs detected from both of these wells have generally increased since 2020.

The MNA data indicated there is limited to adequate evidence of anaerobic biodegradation (**Appendix D**), yet *cis*-DCE is the COC detected at the highest concentration in most locations where COCs are detected proximate to Building 8. This indicates reductive dechlorination of the parent compound (TCE) is occurring. With the exception of MW-8-003-B, the Building 8 monitoring wells have higher concentrations of the daughter compounds 1,2-DCE and VC relative to their parent compounds PCE and TCE.

Groundwater from the Building 8 area is flowing to the southeast. Natural attenuation processes are apparently reducing the COC contamination to non-detectable levels or below the NYSDEC Class GA criteria in downgradient monitoring wells along Upper Mountain Road (**Figure 3**). Consistent with historical trends, no VOCs were detected above the Class GA groundwater standards in downgradient monitoring wells MW-8-1, MW-6-1, MW-6-2, and MW-6-F-B. It does not appear contaminated groundwater proximate to Building 8 is migrating beyond Upper Mountain Road.

There is evidence that reductive dechlorination is occurring at the Building 8 well locations based on the anaerobic biodegradation screening tables (**Appendix D**). Additionally, the production of the PCE and TCE daughter compounds *cis*-DCE and VC provides evidence for reductive dichlorination.

Building 10

Six monitoring wells were sampled proximate to Building 10 (Bldg 10 MW-1, MW-10-2, MW-10-3, MW-9-101A, MW-9-12, and TK-6; **Figure 1**).

COCs are in the groundwater located between Buildings 7 and 10. This area was the location of an in-situ remedial injection program implemented in June 2016. Dramatic decreases in parent COC concentrations (TCE and PCE) and increases in breakdown daughter product concentrations (*cis*-DCE and VC) were observed in the post-injection analytical data collected 30, 60, 90, and 180 days after injection. Post-injection data was provided to NYSDEC in December 2016 in the Final Engineering Report.

The September 2022 analytical results were generally consistent with the 2021 results. The four wells that may be considered upgradient of the source (MW-10-3, MW-9-101A, MW-9-12, and TK-6) contained no COCs at concentrations above the PQLs or above their respective Class GA criteria, and in most cases, there were no detections above



laboratory detection limits. Well BLDG-10-MW-1, which may be near a source, showed high levels of both PCE and TCE (140,000 and 4,300 µg/L) and no detections of 1,2-DCE or VC, consistent with historical data. The MNA screening score (**Appendix D**) suggests there is adequate evidence for anaerobic biodegradation, the ORP shows a mildly reducing environment (-35.1 mV), and the dissolved oxygen was <0.3 mg/L, but the levels of parent compounds PCE and TCE have not decreased over time, and there is a lack of daughter products, including ethene. The analysis of groundwater from downgradient well MW-10-2 found no detection of PCE, and TCE was below its Class GA criteria, while 1,2-DCE and VC were found at 22.6 and 23 µg/L, respectively. Additionally, ORP (-97.9 mV) and DO (0.5 mg/L) measurements indicate a reducing environment, and ethene was detected in small amounts (38 µg/L). Although the MNA screening score shows limited evidence of anaerobic biodegradation, the other data, including high amounts of PCE and TCE upgradient, indicate that it is occurring in the vicinity of this well.

4.0 2022 GROUNDWATER MONITORING CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

Concentrations of COCs in groundwater analyzed from wells proximate to the BCP/DHTS Site boundaries (MW-7-1R, -7-2, -7-3, and -7-P-1) were generally below MDLs and NYSDEC Class GA Criteria. However, concentrations of TCE in well MW-7-4 (15 ppb), which is located on the southeasternmost corner of the BCP Site, exceeded its Class GA criteria (5 ppb). This is a change from historical trends, in which concentrations of TCE were below MDLs in nine of the 13 sampling events conducted since 2008; with a historical high concentration of 3.6 ppb detected in 2012. Concentrations of COCs in the other boundary monitoring wells have generally been below MDLs and Class GA criteria since 2017. Concentrations of the degradation products CO₂ and chloride have been elevated in mid-plume wells and have been increasing in all of the boundary wells (including MW-7-4) in recent years.

Results of the September 2022 groundwater monitoring otherwise indicates groundwater impacts remain within the spatial limits of the BCP and DHTS Sites (**Figure 3**). Analytical results continue to indicate the plumes are stable, as there is continuing evidence for anaerobic biodegradation in the area where remedial treatments were applied in June 2016.

As specified in the Decision Document (DD) issued by NYSDEC on June 14, 2016, GMCH implemented the Site remedy for groundwater. The remedy included in-situ injection of a chemical reducing agent (ZVI) and a biostimulation amendment (EVO). These were added to the formation via remedial injection wells between Buildings 7 and 10 in June 2016.

Dramatic reductions in concentrations of parent COCs (TCE and PCE) have been observed at certain well locations (MW-7-A-6, MW-7-7, MW-7-8, and MW-10-2) proximate to the remedial injection areas, although all of these except MW-10-2 have seen some rebound in the last two sampling rounds. Additionally, these wells continue to exhibit concentrations of breakdown COCs (*cis*-DCE and VC), as well as VC degradation products (ethene, ethane, and CO₂). These observations, along with field data indicating reducing conditions and the MNA screening scores (**Appendix D**), provides encouraging evidence of continuing enhanced natural attenuation due to the remedial injection program, but also indicates parent compounds may be migrating from the upgradient area near BLDG-10-MW-1.

Data from the mid-plume wells (MW-7-5 and MW-7-6) do not support the conclusion that anaerobic reductive dechlorination is occurring in this area, and particularly in MW-7-5, concentrations of parent COCs (PCE and TCE) have increased to pre-treatment levels. While daughter and degradation products are observed in this area, these are likely migrating down from the upgradient area, where reductive dechlorination appears to be ongoing.



RECOMMENDATIONS

GZA recommends:

- continuing the annual groundwater sampling event in the fall of 2023 in accordance with the SMP,
- sampling wells MW-7-7 and MW-7-A-6 for microbial genetic assays to verify the presence of bacteria (such as member of the *Dehalococcoides* genus) that perform reductive dechlorination of chlorinated contaminants.

Further considerations may include:

- considering retreatment of the area between Building 7 and 10 in the existing array.
- considering treatment options of the likely source area under Building 10 in the vicinity of BLDG 10-MW-1.



TABLES

Table 1
Summary of Groundwater Sample Analytical Results
GMCH Lockport Brownfield Cleanup Program
Site No. C932138

Sample Location Sample Date	Class GA Criteria	BUILDING 7 AREA WELLS																							
		MW-7-1R 9/22/2022		MW-7-2 10/4/2022		MW-7-3 10/5/2022		MW-7-4 9/22/2022		MW-7-5 10/5/2022		MW-7-6 10/6/2022		MW-7-7 10/4/2022		MW-7-8 10/7/2022		MW-7-A-6 10/5/2022		MW-7-C-2 10/4/2022		MW-7-P-1 10/6/2022			
		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q			
VOC Compounds of Concern (ug/L)																									
cis-1,2-Dichloroethene	5	ND		ND		ND		ND		590.0		750	F1	36,000		440		200,000		300				2.0	
Tetrachloroethene	5	ND		ND		ND		ND		10,000	F1	630	F1	68,000		820		48,000		ND				ND	
trans-1,2-dichloroethene	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				2.4	
Trichloroethene	5	ND		ND		ND		15		860.0		340		17,000		340		8,600		ND				ND	
Vinyl Chloride	2	ND		ND		ND		ND		ND		13		7,200		220		110,000		140				2.3	
Total VOCs		ND		ND		ND		15		11,450.0		1,720		128,200		1,820		366,600		440				6.7	
Polycyclic Aromatic Hydrocarbons (PAHs) (ug/L)																									
16 PAHs analyzed		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT				NT	
Field Parameters																									
Temperature (Deg. C)	NV	19.2		16.3		18.3		15.5		17.3		17		17.8		17.00		18.5		15.5				21.9	
Specific Conductance (mS/cm)	NV	8.258		1.942		23.98		2.08		14.924		18.157		11.187		13.697		5.761		2.239				14.461	
Dissolved Oxygen (mg/L)	NV	0.62		2.69		0.18		3.44		0.41		0.15		0.17		2.60		0.14		0.28				0.21	
Oxygen Reduction Potential (mv)	NV	44.4		110.6		-78.6		100.4		64.8		24.9		-235.5		-80.7		-83.4		-34.6				-109.1	
pH (std. units)	NV	6.77		7.14		6.73		7.05		6.89		6.92		6.79		6.83		6.28		6.88				6.54	
Turbidity (NTUs)	NV	8.25		-5.18		-2.45		-5.57		-1.38		1.48		5.01		14.75		20.71		-5.03				21.9	
Inorganics (mg/L)																									
Iron	0.3	0.13		0.032	J	7.6		0.039	J	0.48		0.18		0.092		7.0		24		2.4				64.6	
Magnesium	35 ^{Note 4}	130		50.6		147		43.8		99.3		96.7		177		199		165		141				277	
Manganese	NV	0.70	B	0.014	B	0.46	B	0.0030	B	1.1	B	0.32	B	0.037	B	0.74	B	2.5	B	0.35	B			3.5	B
Potassium	NV	7.4		2.2		35.2		3.3		9.0		15.1		43.9		45.0		5.4		5.1				30.4	
Sodium	20	1100		211		5,070		240		2,850		3,850		1,630	B	2,250		586		118				173	
Miscellaneous Water Quality Parameters																									
Methane (ug/L)	NV	41.0		ND		270		ND		13.0		150		750		28.0		2,000		220				7,100	
Ethane (ug/L)	NV	ND		ND		ND		ND		ND		ND		ND		1.9	J	150	J	ND				ND	
Ethene (ug/L)	NV	ND		ND		ND		ND		ND		ND		590		2.9	J	12,000		4.2	J			ND	
Carbon Dioxide (ug/L)	NV	72,000		44,000		88,000		40,000		84,000		44,000		66,000		16,000		420,000		11,000				110,000	
Total Organic Carbon (mg/L)	NV	2.4		2.3		3.9		1.8		6		2.8		8.6		2.3		40.8		2.7	J			4.3	
Alkalinity (mg/L)	NV	278	H	362	B	413	B	335	H	347	B	317	B	307	B	127.0	B	502	B ^2	322	B			239	B
Ammonia (mg/L)	NV	0.010	J F1	ND		1.9	B	ND		ND		0.050	B F1	3.3	B	0.36	B	0.086	F1 B	0.16	B			137	B
Chloride (mg/L)	NV	3,820		432		16,800		587		9,220		12,700		4,020		5,090		1710		151				3,320	
Nitrate (mg/L)	NV	ND		0.028	J	0.14		0.027	J	1.0		0.058		ND		ND		0.57		ND				0.081	
Nitrite (mg/L)	NV	ND		ND		ND	H	0.025	J	ND	H	ND	H	ND		ND	H	ND	H	ND				ND	
Sulfate (mg/L)	NV	205.0		47		2070		74.5		800		714		422		187	J	30.1	J	902				25.2	J
Sulfide (mg/L)	NV	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	

- Notes:
- Only compounds detected in one or more of the groundwater samples are presented in this table.
 - Analytical testing completed by TestAmerica in Amherst, New York.
 - Criteria is a guidance value.
 - Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; *+ - LCS and/or LCSD is outside acceptance limits, high biased. E = Results exceeded calibration range; F1 = MS and/or MSD Recovery is outside acceptance limits. F2 = MS/MSD RPD exceeds control limits. ^ = Instrument related quality control is outside of acceptable range. H = sample was prepped or analyzed outside of specified holding time.
 - mg/L = parts per million; ug/L = parts per billion
 - NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
 - ND = not detected NV = no value, ND= Not Detected
 - Shaded concentrations exceed Class GA criteria.
 - Concentrations shown for MW-7-7 are the higher of its initial run or its respective duplicate.

Table 1
Summary of Groundwater Sample Analytical Results
GMCH Lockport Brownfield Cleanup Program
Site No. C932138

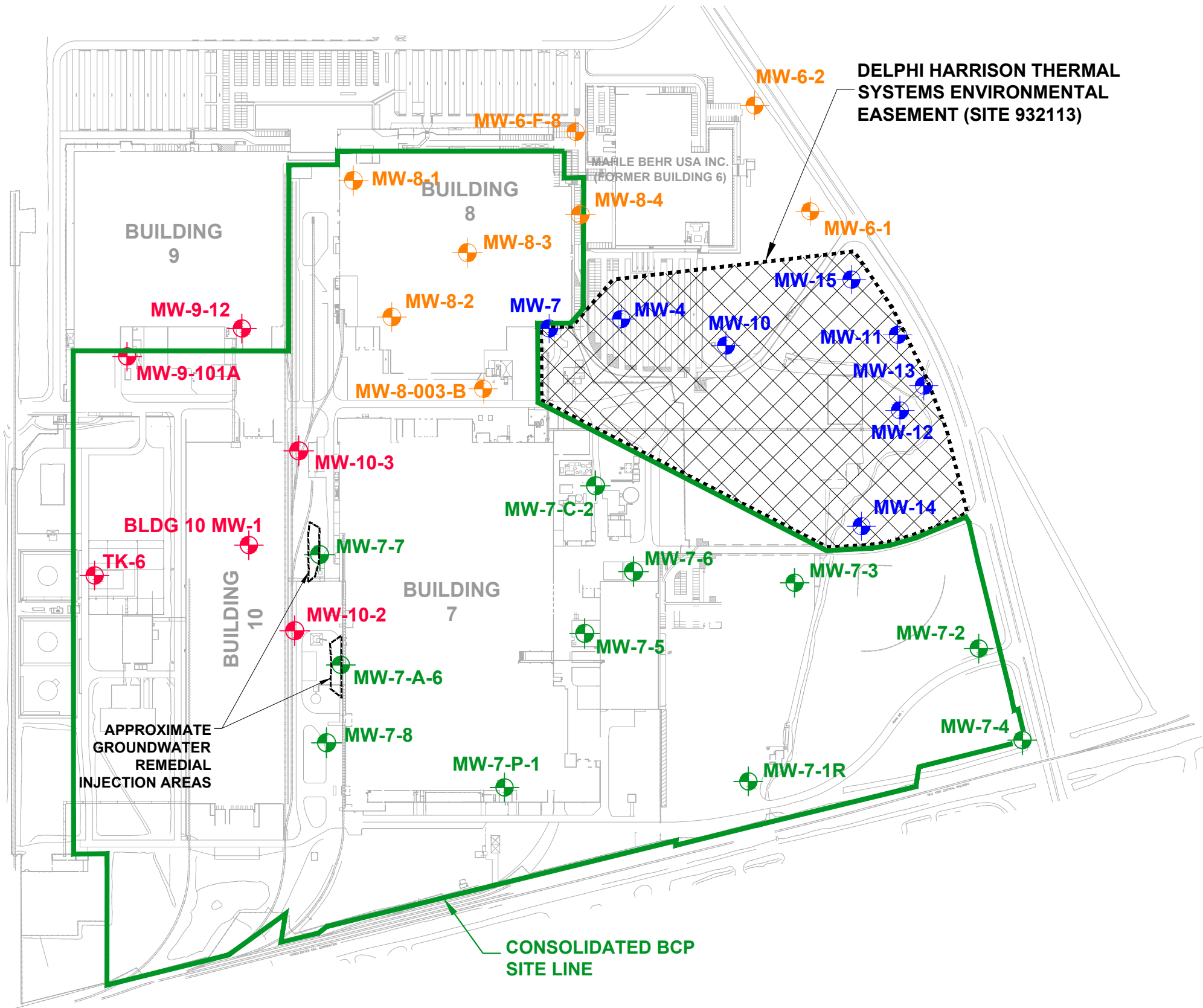
Sample Location Sample Date	Class GA Criteria	BUILDING 8 AREA WELLS												BUILDING 10 AREA WELLS															
		MW-6-1 9/29/2022		MW-6-2 9/29/2022		MW-6-F-8 9/29/2022		MW-8-1 9/27/2022		MW-8-2 9/27/2022		MW-8-3 9/28/2022		MW-8-4 9/28/2022		MW-8-003-B 9/28/2022		MW-9-101A 9/26/2022		MW-9-12 9/26/2022		TK-6 10/3/2022		BLDG-10-MW-1 10/3/2022		MW-10-2 10/3/2022		MW-10-3 9/26/2022	
		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q	
VOC Compounds of Concern (ug/L)																													
cis-1,2-Dichloroethene	5	ND		ND		ND		1.1		6,500		9.3		27		870		ND		ND		ND		ND		21.0		1	
Tetrachloroethene	5	ND		ND		ND		ND **		ND **		ND **		ND **		2100		ND		ND		ND		140,000		ND		2.9	F1
trans-1,2-dichloroethene	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.6		ND	F1
Trichloroethene	5	ND		ND		ND		0.76 J		ND		2.8		5.9		350		ND		ND		ND		4,300 J		0.65 J		4.5	F1
Vinyl Chloride	2	ND		ND		ND		ND		3000		25.0		10		ND		ND		ND		ND		ND		23		ND	F1 F2
Total VOCs		ND		ND		ND		0.85		9,500		37.1		42.9		3,320		ND		ND		ND		144,300		46		8	
Polycyclic Aromatic Hydrocarbons (PAHs) (ug/L)																													
16 PAHs analyzed		NT		NT		NT		NT		NT		NT		NT		NT		ND		ND		NT		NT		NT		NT	
Field Parameters																													
Temperature (Deg. C)	NV	16.7		16.3		19.2		16.9		20.4		20.6		18.5		19.3		19.4		16.6		18.9		20.8		18.4		16.9	
Specific Conductance (mS/cm)	NV	4.744		3.733		6.82		5.516		2.46		6.235		3.983		13.222		11.228		3.407		7.755		2.742		7.592		1.618	
Dissolved Oxygen (mg/L)	NV	0.26		0.28		0.25		0.17		0.26		3.58		3.61		0.28		1.42		0.35		2.28		0.27		0.53		0.25	
Oxygen Reduction Potential (mv)	NV	-123.1		-79.1		64.8		-241.1		-101.8		-13.8		74.5		74.8		223.1		140.1		75.1		-35.1		-97.9		134.4	
pH (std. units)	NV	6.88		7.09		6.92		6.96		7.15		6.84		7.44		7.44		6.92		7.39		7.18		6.84		7.19		7.6	
Turbidity (NTUs)	NV	14.09		-5.61		-5.14		0.67		-5.61		-2.91		8.73		-3.88		-5.63		-5.16		-5.12		-5.21		-1.4		-5.28	
Inorganics (mg/L)																													
Iron	0.3	25.9		0.039 J		0.033 J		0.031 J		0.36		0.084		0.38		0.12		ND		0.085		ND		1.2		0.61		0.035 J	
Magnesium	35 ^{NOTE 4}	68.7		48		87.5		124		49.3		49.3		37.7		19.1		126		23.7		87.8		100		53.8		27.0	F1
Manganese	NV	5.8 B		0.32 B		0.21 B		0.11		0.025		6.0		0.25		0.31		0.011 B		0.31 B		0.0013 J		0.66		0.17		0.0014 J B	
Potassium	NV	5.9		5.8		4.0		19.8		15.9		412		9.6		10.5		27.0		3.9		2.2		4.9		8.6		6.8	F1
Sodium	20	642		520		1,240		618		233		301		1,210		2,460		1,820		527		1,190		137		1,220		136	
Miscellaneous Water Quality Parameters																													
Methane (ug/L)	NV	2.0 J		280		ND		160		470		94		150		5.6		ND		3.8 J		ND		5.1		120		ND	
Ethane (ug/L)	NV	ND		ND		ND		ND		ND		8.0		ND		ND		ND		ND		ND		ND		ND		ND	
Ethene (ug/L)	NV	ND		ND		ND		ND		ND		ND		ND		3.8 J		ND		ND		ND		4.3 J		38 J		ND	
Carbon Dioxide (ug/L)	NV	130,000		42,000		63,000		66,000		50,000		91,000		ND		10,000		36,000		25,000		34,000		82,000		21,000		18,000	
Total Organic Carbon (mg/L)	NV	9.3		2.4		1.3		0.90 J		1.4		9.8		2.4		2.2		3.3		2.1		0.63 J		4.8		1.7		1.2	
Alkalinity (mg/L)	NV	504		379		454		20		354		330		145		307		274 H		290		280 B		310 B		286 F1 B^2		150	
Ammonia (mg/L)	NV	2.0		ND		ND		1.0 J		0.71 J		5.6		0.069		0.042		ND		ND		ND		0.16 B F1		0.26 B		ND	F1
Chloride (mg/L)	NV	1,360		1,020		2,160		1,500		477		1,780		2,320		6,110		4,160		858		2,760		1090		3,680		104	
Nitrate (mg/L)	NV	0.091 B		0.022 J B		0.046 J B		ND		ND		0.10 J		0.028		0.30		0.20		0.10		0.27		ND		ND		0.28	F1
Nitrite (mg/L)	NV	ND		ND		ND		ND		ND		ND		0.028 J F1		0.024 J		ND		ND		ND F1		ND		ND		ND	
Sulfate (mg/L)	NV	30.1 J		114		281		999		229		70.0		178		198 J		1,480		94.6		142 J		493		305		163	
Sulfide (mg/L)	NV	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

- Notes:
- Only compounds detected in one or more of the groundwater samples are presented in this table.
 - Analytical testing completed by TestAmerica in Amherst, New York.
 - Criteria is a guidance value.
 - Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; *+ - LCS and/or LCSD is outside acceptance limits, high biased. E = Results exceeded calibration range; F1 = MS and/or MSD Recovery is outside acceptance limits. F2 = MS/MSD RPD exceeds control limits. ^ = Instrument related quality control is outside of acceptable range. H = sample was prepped or analyzed outside of specified holding time.
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 - NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
 - ND = not detected NV = no value, NT = not tested.
 - Shaded concentrations exceed Class GA criteria.
 - Concentrations shown for MW-7-7 are the higher of its initial run or its respective duplicate.



FIGURES

© 2023 - GZA GeoEnvironmental, Inc. GZA-K:\21\PROJECTS\56500a\56546 GM Component LLC\BCP Sites Annual Low Flow Samp\2022\Fig 1 & 3 - 2022.dwg [FIGURE 1] August 08, 2023 - 2:54pm theodore.klettke



LEGEND:

- MW-11** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITHIN THE DELPHI HARRISON THERMAL SYSTEMS SITE
- MW-7-2** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING 7
- MW-6-1** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING 8
- MW-10-2** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING 10

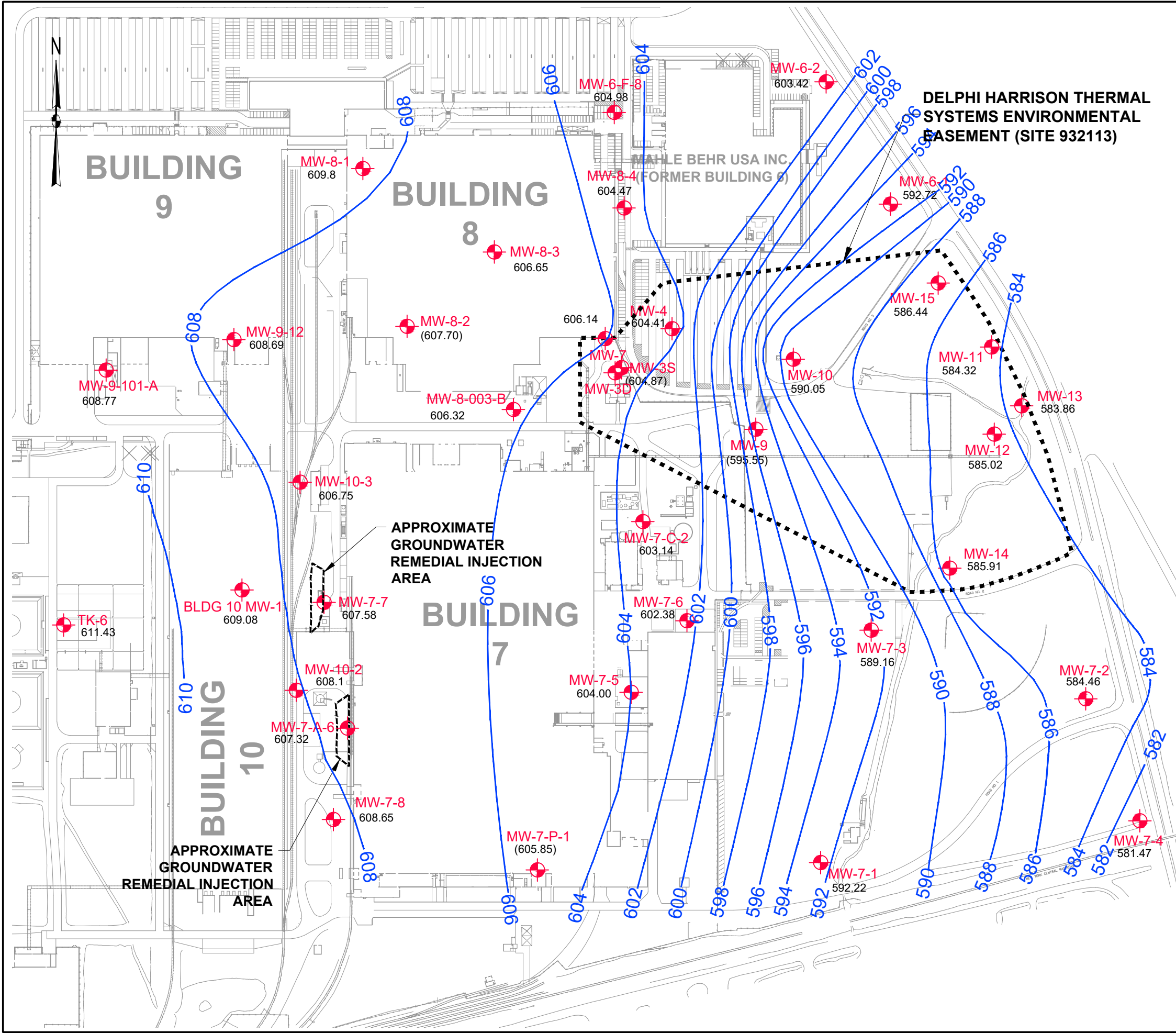
NOTES:

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.



NO.	ISSUE/DESCRIPTION	BY	DATE
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GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY			
2022 BCP SITE ANNUAL GROUNDWATER MONITORING SITE PLAN			
PREPARED BY:  GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GMCH LOCKPORT FACILITY 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK	
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO 1
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JUNE 2023	PROJECT NO. 21.0056546.20	REVISION NO.	
			SHEET NO. 1 OF 4

© 2022 - GZA GeoEnvironmental, Inc. GZA-K:\21\PROJECTS\56500a\56546 GM Component LLC\BCP Sites Annual Low Flow Samp\Sept 2022\Fig 2 - 2022 BCP Site GW Cont.dwg [Figure 2] August 08, 2023 - 2:58pm theodore.klettke



LEGEND:

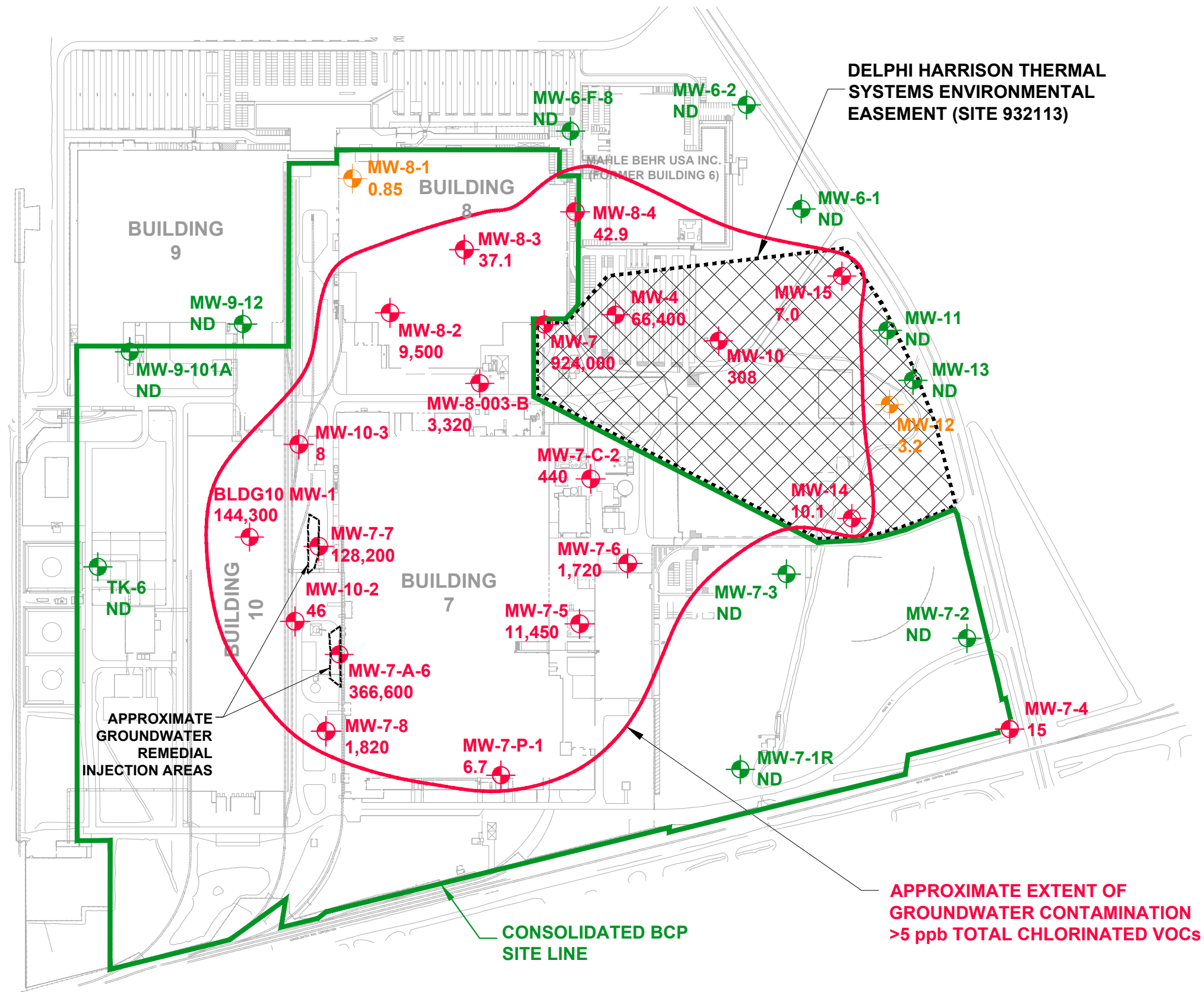
- APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS SAMPLED SEPTEMBER 2022 WITH GROUNDWATER ELEVATION (FEET) MEASURED ON 9/19/2022.
- GROUNDWATER ELEVATION CONTOUR

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GROUNDWATER CONTOURS PLOTTED BASED UPON 9/19/2022 GROUNDWATER MEASUREMENTS.



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GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY				
2022 BCP SITE ANNUAL GROUNDWATER MONITORING SITEWIDE GROUNDWATER CONTOUR MAP				
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GMCH LOCKPORT FACILITY 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK		
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO.	
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	2	
DATE: JUNE 2023	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 2 OF 4	



LEGEND:



APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH NON-DETECT LEVELS FOR CHLORINATED SOLVENTS



APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH TOTAL CHLORINATED SOLVENT LEVELS MEASURING LESS THAN 5 PARTS PER BILLION (ppb)



APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH TOTAL CHLORINATED SOLVENT LEVELS MEASURING GREATER THAN 5 PARTS PER BILLION (ppb)

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GROUNDWATER SAMPLES COLLECTED BETWEEN 9/22/2022 AND 10/6/2022.



NO.		ISSUE/DESCRIPTION	BY	DATE
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GM COMPONENTS HOLDINGS, LLC LOCKPORT FACILITY				
2022 BCP SITE ANNUAL GROUNDWATER MONITORING EXTENT OF CHLORINATED SOLVENT CONTAMINATION				
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GM COMPONENTS HOLDINGS, LLC 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK		
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO	
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	3	
DATE: JUNE 2023	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 3 OF 4	

MW-10-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-02	14	7	34	ND	ND
2013-05-09	24	24	38	ND	1.4
2014-05-22	14	9	11	ND	ND
2015-05-20	13	7.2	10	ND	ND
2016-05-18	3.4	3	7.2	ND	ND
2017-05-08	2.4	3.8	3.7	ND	ND
2018-05-18	2	2.9	2.1	ND	ND
2019-05-29	3.1	4.5	3.6	ND	ND
2020-07-06	3	3.5	1.2	ND	ND
2021-08-27	13	12	12	ND	ND
2022-09-26	2.9	4.5	1	ND	ND

MW-9-101A					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-03	ND	ND	ND	ND	ND
2013-10-01	ND	ND	ND	ND	ND
2014-05-22	ND	ND	ND	ND	ND
2015-05-21	ND	ND	ND	ND	ND
2016-05-18	ND	ND	ND	ND	ND
2017-05-05	ND	ND	ND	ND	ND
2018-05-29	ND	ND	ND	ND	ND
2019-05-23	ND	ND	ND	ND	ND
2020-07-13	ND	ND	ND	ND	ND
2021-08-31	ND	ND	ND	ND	ND
2022-09-26	ND	ND	ND	ND	ND

BLDG-10-MW-1					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-02	150000	2500	ND	ND	ND
2013-10-01	160000	3100	ND	ND	ND
2014-06-03	120000	2300	ND	ND	ND
2015-05-26	120000	2600	ND	ND	ND
2016-05-19	140000	2700	ND	ND	ND
2017-05-10	150000	3400	680	ND	ND
2018-05-31	150000	3600	ND	ND	ND
2019-05-31	160000	4100	ND	ND	ND
2020-07-13	170000	5200	ND	ND	ND
2021-09-01	140000	4100	ND	ND	ND
2022-10-03	140000	4300	ND	ND	ND

TK-6					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
NA	NA	NA	NA	NA	NA
2013-10-07	ND	1.9	ND	ND	ND
2014-06-02	ND	ND	ND	ND	ND
2015-05-20	ND	ND	ND	ND	ND
2016-05-19	ND	ND	ND	ND	ND
2017-05-10	0.91	ND	ND	ND	ND
2018-05-29	ND	ND	ND	ND	ND
2019-05-23	ND	ND	ND	ND	ND
2020-07-06	ND	ND	ND	ND	ND
2021-08-30	ND	ND	ND	ND	ND
2022-10-03	ND	ND	ND	ND	ND

MW-7-7					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-01	120000	2600	6000	ND	960
2013-05-08	120000	2300	4400	ND	ND
2014-05-29	76000	3400	8700	ND	1800
2015-05-12	70000	3900	13000	ND	3500
2016-05-12	84000	7500	26000	ND	4900
2017-05-09	51000	13000	61000	ND	4900
2018-05-18	23000	24000	26000	ND	8100
2019-05-28	54000	19000	41000	ND	6200
2020-07-07	68000	6800	54000	ND	9600
2021-08-27	67000	5300	39000	ND	8400
2022-10-04	68000	17000	36000	ND	7200

MW-10-2					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-02	810	330	2100	26	60
2013-05-09	450	150	2600	ND	60
2014-05-22	240	83	1900	24	70
2015-05-19	140	150	1300	18	38
2016-05-17	200	590	1500	20	62
2017-05-08	ND	ND	210	21	2600
2018-05-30	ND	ND	35	22	49
2019-05-29	ND	ND	6.8	7.7	15
2020-07-06	1	ND	140	6.5	98
2021-09-01	ND	ND	19	4.6	33
2022-10-03	0.65	ND	21	1.6	23

MW-7-A-6					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-01	140000	26000	22000	ND	1800
2013-05-08	140000	28000	26000	ND	ND
2014-05-30	130000	23000	29000	110	1500
2015-05-18	120000	19000	28000	ND	ND
2016-05-12	170000	17000	28000	ND	ND
2017-05-09	26000	65000	99000	ND	1800
2018-05-18	ND	1100	120000	ND	13000
2019-05-28	1400	1500	160000	ND	18000
2020-07-07	ND	ND	62000	ND	18000
2021-08-27	15000	3200	90000	ND	20000
2022-10-05	48000	8600	200000	ND	110000

MW-9-12					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
NA	NA	NA	NA	NA	NA
2013-10-01	ND	ND	ND	ND	ND
2014-05-21	ND	ND	ND	ND	ND
2015-05-21	ND	ND	ND	ND	ND
2016-05-19	ND	ND	ND	ND	ND
2017-05-05	ND	ND	ND	ND	ND
2018-05-31	ND	ND	ND	ND	ND
2019-05-30	ND	ND	ND	ND	ND
2020-07-13	ND	ND	ND	ND	ND
2021-08-31	ND	ND	ND	ND	ND
2022-09-26	ND	ND	ND	ND	ND

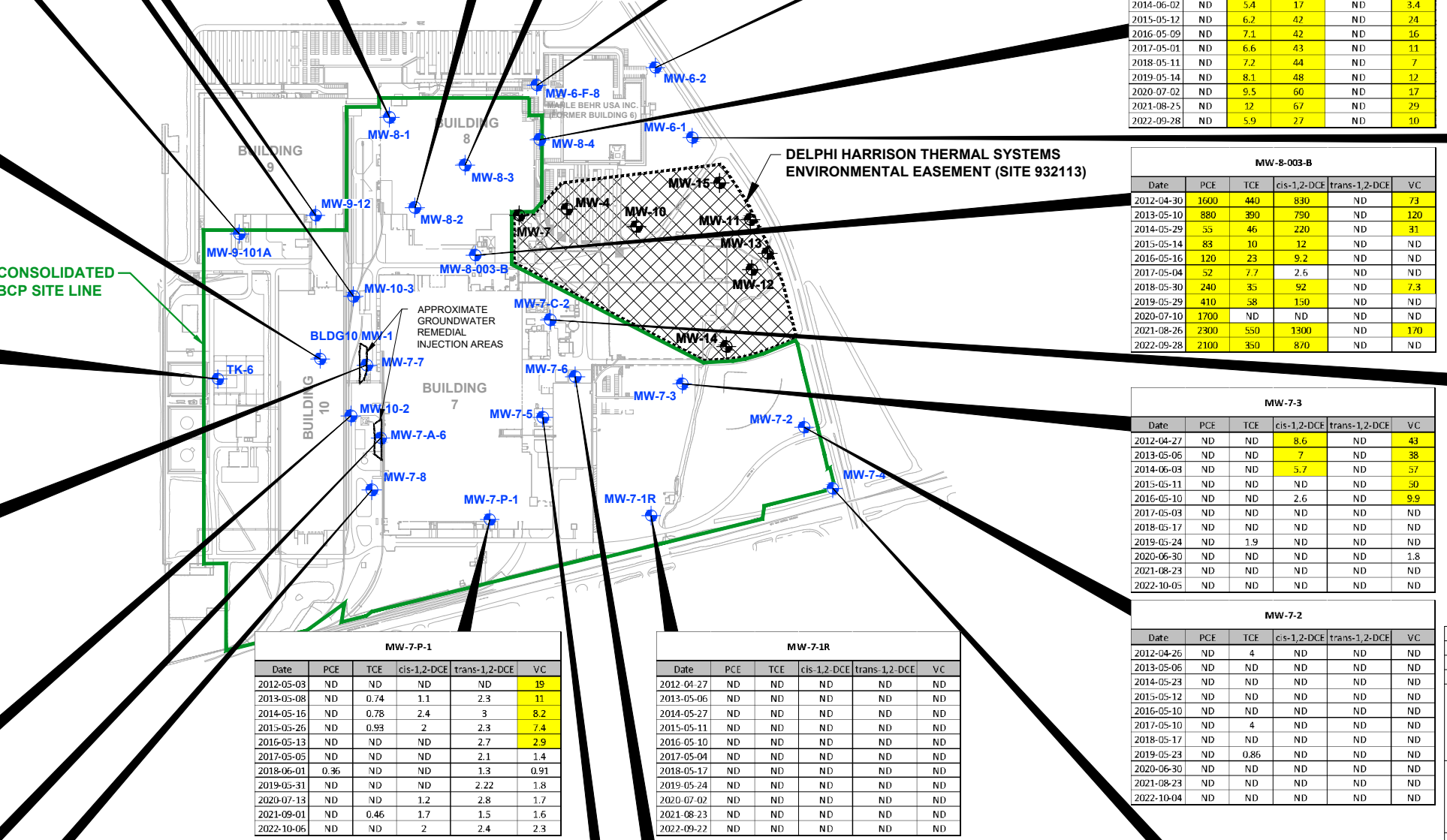
MW-8-2					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-03	ND	190	10000	34	380
2013-05-13	ND	200	7800	77	270
2014-05-16	ND	110	6400	ND	150
2015-05-22	10	24	1600	ND	ND
2016-05-17	ND	47	5200	16	260
2017-05-02	ND	ND	2800	ND	ND
2018-05-10	ND	ND	1900	ND	110
2019-05-30	ND	ND	3300	ND	58
2020-07-10	ND	11	4500	12	480
2021-08-30	ND	ND	7500	ND	930
2022-09-27	ND	ND	6500	ND	3000

MW-8-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-01	0.84	5.9	5.3	ND	ND
2013-05-14	0.49	0.78	3	ND	ND
2014-05-16	ND	ND	2.22	ND	ND
2015-05-21	ND	ND	1.8	ND	ND
2016-05-18	ND	3.9	3.4	ND	ND
2017-05-02	ND	ND	1.9	ND	ND
2018-05-11	ND	2.8	3.7	ND	ND
2019-05-31	0.91	1	3.1	ND	ND
2020-07-10	ND	ND	ND	ND	ND
2021-08-30	ND	1.3	6.2	ND	14
2022-09-28	ND	2.8	9.3	ND	25

MW-6-F-8					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-04-25	ND	ND	ND	ND	ND
2013-05-14	ND	ND	ND	ND	ND
2014-05-30	ND	ND	ND	ND	ND
2015-05-14	ND	ND	ND	ND	ND
2016-05-09	ND	ND	ND	ND	ND
2017-05-01	ND	ND	ND	ND	ND
2018-05-16	ND	ND	ND	ND	ND
2019-05-14	ND	ND	ND	ND	ND
2020-05-29	ND	ND	ND	ND	ND
2021-08-26	ND	ND	ND	ND	ND
2022-09-29	ND	ND	ND	ND	ND

MW-6-2					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-04-25	ND	ND	ND	ND	ND
2013-05-14	ND	ND	ND	ND	ND
2014-05-14	ND	ND	ND	ND	ND
2015-05-14	ND	ND	ND	ND	ND
2016-05-09	ND	ND	ND	ND	ND
2017-05-03	ND	ND	ND	ND	ND
2018-05-16	ND	ND	ND	ND	ND
2019-05-21	0.7	ND	ND	ND	ND
2020-06-26	ND	ND	ND	ND	ND
2021-08-24	ND	ND	ND	ND	ND
2022-09-29	ND	ND	ND	ND	ND

MW-8-1					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-04-30	ND	ND	0.85	ND	ND
2013-05-10	ND	ND	ND	ND	ND
2014-05-15	ND	ND	0.88	ND	ND
2015-05-22	ND	ND	ND	ND	ND
2016-05-16	ND	ND	0.9	ND	ND
2017-05-02	ND	0.51	ND	ND	ND
2018-06-01	ND	ND	0.82	ND	ND
2019-05-30	ND	ND	0.87	ND	ND
2020-07-10	ND	ND	0.84	ND	ND
2021-08-30	ND	ND	0.85	ND	ND
2022-09-27	ND	0.76	1.1	ND	ND



MW-7-P-1					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-05-03	ND	ND	ND	ND	19
2013-05-08	ND	0.74	1.1	2.3	11
2014-05-16	ND	0.78	2.4	3	8.2
2015-05-26	ND	0.93	2	2.3	7.4
2016-05-13	ND	ND	ND	2.7	2.9
2017-05-05	ND	ND	ND	2.1	1.4
2018-06-01	0.36	ND	ND	1.3	0.91
2019-05-31	ND	ND	ND	2.22	1.8
2020-07-13	ND	ND	1.2	2.8	1.7
2021-09-01	ND	0.46	1.7	1.5	1.6
2022-10-05	ND	ND	2	2.4	2.3

MW-7-1R					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-04-27	ND	ND	ND	ND	ND
2013-05-06	ND	ND	ND	ND	ND
2014-05-27	ND	ND	ND	ND	ND
2015-05-11	ND	ND	ND	ND	ND
2016-05-10	ND	ND	ND	ND	ND
2017-05-04	ND	ND	ND	ND	ND
2018-05-17	ND	ND	ND	ND	ND
2019-05-24	ND	ND	ND	ND	ND
2020-07-02	ND	ND	ND	ND	ND
2021-08-23	ND	ND	ND	ND	ND
2022-09-22	ND	ND	ND	ND	ND

MW-7-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2012-04-27	ND	ND	8.6	ND	43
2013-05-06	ND	ND	7	ND	38
2014-06-03	ND	ND	5.7	ND	57
2015-05-11	ND	ND	ND	ND	50
2016-05-10	ND	ND	2.6	ND	9.9
2017-05-03	ND	ND	ND	ND	ND
2018-05-17	ND	ND	ND	ND	ND
2019-05-24	ND	1.9	ND	ND	ND
2020-06-30	ND	ND	ND	ND	1.8
2021-08-23	ND	ND	ND	ND	ND
2022-10-05	ND	ND	ND	ND	ND



APPENDIX A

MONITORING WELL OBSERVATIONS AND GROUNDWATER SAMPLING LOGS

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GMCH Lockport - Annual BCP GW Samp. PROJECT NO. 56546.20 T. 4

SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Richer + Bohlen

DATE OF SAMPLE COLLECTION 9-22-22 - 10-7-22

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-7-1-092222	MW-7-1	596.96	22.51	4.74	592.22	2.9	/	1.2	6.77	19.2	8.258	1135	
MW-7-2-100422	MW-7-2	592.57	21.63	8.11	584.46	2.2	/	2.4	7.14	16.3	1.942	1230	
MW-7-3-100522	MW-7-3	593.03	25.00	3.87	589.16	3.4	/	1.0	6.73	18.3	23.98	1615	
MW-7-4-092222	MW-7-4	593.53	21.45	12.06	581.47	1.5	/	1.5	7.05	15.5	2.050	1625	
MW-7-5-100522	MW-7-5	610.96	21.93	6.96	604.00	2.4	/	1.0	6.89	17.3	14.924	1490	
MW-7-6-100622	MW-7-6	606.30	16.52	3.92	602.38	2.1	/	1.7	6.92	17.0	18.157	1000	
MW-7-7-100422	MW-7-7	610.24	27.03	2.66	607.58	4.0	/	0.7	6.79	17.8	11.187	1320	
MW-7-8-100722	MW-7-8	610.92	19.45	2.27	608.65	2.8	/	4.5	6.83	17.0	13.697	0815	

Additional Comments: MS/MSD collected at MW-7-6 on 10-6-22

Copies to: _____

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME 6MCH Lockport - Annual BCP & W Sampling
 SAMPLING CREW MEMBERS Morgan Brown
 DATE OF SAMPLE COLLECTION 9-22-22 - 10-6-22

PROJECT NO. 56546.20 T. 4
 SUPERVISOR ~~Richard~~
Bohlen

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-7-A-6-100522	MW-7-A-6	610.72	14.03	3.40	607.32	1.7	/	1.1	6.28	18.5	576	1250	
MW-7-C-2-100422	MW-7-C-2	608.96	24.08	5.82	603.14	3.0	/	0.6	6.88	15.5	2.239	1000	
MW-7-P-1-100622	MW-7-P-1	-	19.85	9.51	-	1.7	/	0.7	6.54	21.9	1946	1215	
							/						
							/						
							/						
							/						
							/						

Additional Comments:

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ Breathing space = 0.0

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
Rel. No.: 56546.20 Task 4

Date: 9-22-77
Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-1

Measurement Point: TOR

Constructed Well Depth (ft): 23.7

Measured Well Depth (ft): 22.51

Depth of Sediment (ft):

Screen Length (ft):	<u>10'</u>
Depth to Pump Intake (ft) ⁽¹⁾ :	<u>~ 17</u>
Well Diameter, D (in):	<u>2</u>
Well Screen Volume, V _s (mL) ⁽²⁾ :	<u>2.9</u>
Initial Depth to Water (ft):	<u>4.74</u>

[illegible]

Notes

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length. $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: GMCH Lockport BLP Annual GW Sampling

JOB# 56546-20

WELL# MW-7-1

WELL PURGING INFORMATION

10/9/22

PURGE DATE
(MM DD YY)

10/9/22

SAMPLE DATE
(MM DD YY)

12.9

WATER VOL IN CASING
(LITRES/GALLONS)

1.2

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

SAMPLING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

PURGING DEVICE	☒ B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- _____
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERBAG	PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- _____
					SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - PVC		X- _____
		B - STAINLESS STEEL	E - POLYETHYLENE		PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - POLYPROPYLENE			X- _____
					SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- _____
		B - TYGON	E - POLYETHYLENE	G - COMBINATION	PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - ROPE	X- _____	TEFLON/POLYPROPYLENE	X- _____
			(SPECIFY)		SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION

596.96

(m/ft)

GROUNDWATER

ELEVATION

592.22

(m/ft)

DEPTH TO WATER

225.1

(m/ft)

WELL DEPTH

474

(m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(um/cm) AT 25°C	(mv)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mv)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mv)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mv)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mv)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR none COLOR clear TURBIDITY none
 WEATHER CONDITIONS WIND SPEED 5-18 DIRECTION WNW PRECIPITATION Y/N OUTLOOK Y
 SPECIFIC COMMENTS _____

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

9-22-22

DATE

Morgan Brown

PRINT

[Signature]

SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ space breathing = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 10-3-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-2
 Measurement Point: TOR
 Constructed Well Depth (ft): 20
 Measured Well Depth (ft): 21.63
 Depth of Sediment (ft): _____

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Initial Depth to Water (ft): 8.11

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1200	100*	9.03		7.15	16.1	1.187	141.8	1.41	-5.14	0.0	
1205		9.78		7.13	16.0	1.155	133.8	0.54	-5.05	0.2	
1210		10.38		7.14	16.0	1.097	122.3	0.39	-4.07	0.5	
1215		11.19		7.15	15.9	1.059	112.5	0.42	-2.11	0.6	
1220		11.58		7.15	16.0	1.067	104.2	0.59	1.30	0.7	
1225		12.08		7.15	15.8	1.198	98.5	0.79	5.62	0.8	
1230		12.28		7.14	15.8	1.197	86.3	1.06	9.86	1.2	
1245		13.12		7.12	15.9	1.368	59.1	1.30	27.45	1.5	
1255		13.95		7.10	15.6	1.507	39.0	0.92	36.87	1.8	
1310		15.35		7.12	15.3	1.307	56.4	0.87	38.57	2.3	
1225		8.39		7.14	16.3	1.942	110.6	2.69	-5.18	0.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
 - The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
 - The drawdown from the initial water level should not exceed 0.3 ft.
 - Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s.
- (*) Lowest Pump Rate

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport BCF Annual GW Sampling</u>				WELL# <u>MW-7-2</u>
WELL PURGING INFORMATION				
<u>100322</u> PURGE DATE (MM DD YY)	<u>1100422</u> SAMPLE DATE (MM DD YY)	<u>122</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>124</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT... DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT... DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP		D - GAS LIFT PUMP E - PURGE PUMP	C - BAILER F - WATERRA®
SAMPLING DEVICE <u>B</u>	C - BLADDER PUMP		F - DIPPER BOTTLE	
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL		D - PVC E - POLYETHYLENE	
SAMPLING DEVICE <u>E</u>	C - POLYPROPYLENE			
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON		D - POLYPROPYLENE E - POLYETHYLENE	
SAMPLING DEVICE <u>E</u>	C - ROPE		F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1592.57</u> (m/ft)	GROUNDWATER ELEVATION <u>589.46</u> (m/ft)		WELL DEPTH <u>2163</u> (m/ft)	
DEPTH TO WATER <u>8</u> (m/ft)				
pH <u>(std)</u>	TURBIDITY <u>(ntu)</u>	CONDUCTIVITY <u>(um/cm) AT 25°C</u>	ORP <u>(mV)</u>	DO <u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(um/cm) AT 25°C</u>	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(um/cm) AT 25°C</u>	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(um/cm) AT 25°C</u>	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(um/cm) AT 25°C</u>	<u>(mV)</u>	<u>(mg/L)</u>
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>some</u>				
WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>NE</u> PRECIPITATION Y/N <u>N</u> OUTLOOK <u>N</u>				
SPECIFIC COMMENTS <u>Well purged dry on 10-3-22. Sampled on 10-4-22</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE <u>10-4-22</u>	PRINT <u>Morgan Brown</u>		SIGNATURE <u>[Signature]</u>	

FAIG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ space breathing = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 10-5-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-3
 Measurement Point: TOR
 Constructed Well Depth (ft): 25
 Measured Well Depth (ft): 25.00
 Depth of Sediment (ft): _____

Screen Length (ft): 15-25 = 10
 Depth to Pump Intake (ft)⁽¹⁾: 20
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 3.4
 Initial Depth to Water (ft): 3.87

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1525	80*	4.50		6.74	19.9	24.466	-79.1	1.02	-3.56	0.0	
1530		5.56		6.73	18.8	24.393	-72.9	0.40	-2.64	0.1	
1535		6.45		6.73	18.7	24.356	-72.6	0.39	0.74	0.2	
1540		6.65		6.73	18.7	24.320	-72.5	0.24	0.68	0.3	
1545		6.48		6.73	18.7	24.289	-73.1	0.23	-2.65	0.5	
1550		6.42		6.73	18.4	24.002	-77.1	0.18	-2.08	0.6	
1555		6.43		6.73	18.3	23.995	-78.0	0.18	-2.56	0.7	
1600		6.42		6.73	18.3	23.980	-78.6	0.18	-2.45	0.8	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s.

* Lowest pump rate

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>SMCH Lockport BCP Annual GW Sampling</u>				WELL# <u>MW-7-3</u>
WELL PURGING INFORMATION				
<u>1100161212</u> PURGE DATE (MM DD YY)	<u>1100161212</u> SAMPLE DATE (MM DD YY)	<u>1113.4</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11110</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE	☒ B A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP		D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERBAG X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B C - BLADDER PUMP		F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E A - TEFLON B - STAINLESS STEEL		D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E C - POLYPROPYLENE			X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E A - TEFLON B - TYGON		D - POLYPROPYLENE E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E C - ROPE X- _____ (SPECIFY)		F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>1593.03</u> (m/ft)		GROUNDWATER ELEVATION	<u>1589.16</u> (m/ft)
DEPTH TO WATER	<u>387</u> (m/ft)		WELL DEPTH	<u>125.00</u> (m/ft)
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE	<u>Good</u>		ODOR	<u>none</u>
WEATHER CONDITIONS	WIND SPEED	<u>0-10</u>	DIRECTION	<u>NNW</u>
SPECIFIC COMMENTS			PRECIPITATION Y/N	<u>N</u>
OUTLOOK				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE	10-5-22		PRINT	Morgan Brown
			SIGNATURE	<u>[Signature]</u>

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ space breathing = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-21-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-4
 Measurement Point: TOR
 Constructed Well Depth (ft): 19.0
 Measured Well Depth (ft): 21.45
 Depth of Sediment (ft): _____

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: ~17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 1.4
 Initial Depth to Water (ft): 13.06

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
9-21-22 1425		13.13		7.13	18.2	2.063	88.5	3.18	-5.57	0.0	
1435		13.23		7.10	17.5	2.056	98.7	2.84	-5.65	0.1	
1440		13.45		7.11	18.0	2.057	100.8	2.85	-5.44	0.2	
1445		13.74		7.11	17.5	2.064	101.6	2.89	-5.56	0.3	
1450		14.13		7.11	17.9	2.072	102.7	2.97	-5.47	0.4	
1455		14.24		7.10	17.6	2.068	103.3	2.94	-5.36	0.5	
1500		14.65		7.10	17.6	2.066	103.5	2.85	-5.27	0.6	
1505		14.85		7.10	17.6	2.062	102.4	2.72	-5.17	0.75	
1520	dry	17.85		7.10	17.6	2.065	103.5	2.78	-5.23	1.25	
9-22-22 1620		14.01		7.05	15.5	2.080	100.4	3.44	-5.57	0.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: GMCH Lockport BCP Annual GW Sampling

JOB# 56546-20

WELL# MW-7-41

WELL PURGING INFORMATION

10/9/21/22

PURGE DATE
(MM DD YY)

10/9/21/22

SAMPLE DATE
(MM DD YY)

1114

WATER VOL IN CASING
(LITRES/GALLONS)

113

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE	☒ B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X-	PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRAID	X-	
SAMPLING DEVICE	☒ B	C - BLADDER PUMP	F - DIPPER BOTTLE		X-	SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - PVC		X-	PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		X-	
SAMPLING DEVICE	☒ E	C - POLYPROPYLENE			X-	SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X-	PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION	X-	
SAMPLING DEVICE	☒ E	C - ROPE	X- (SPECIFY)	TEFLON/POLYPROPYLENE	X-	SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	<u>1593.53</u>	(m/ft)	GROUNDWATER ELEVATION	<u>1580.47</u>	(m/ft)
DEPTH TO WATER	<u>113.06</u>	(m/ft)	WELL DEPTH	<u>121.45</u>	(m/ft)
pH	<u>7.1</u>	(std)	TURBIDITY	<u>0.1</u>	(ntu)
CONDUCTIVITY	<u>150</u>	(um/cm) AT 25°C	ORP	<u>150</u>	(mV)
DO	<u>8.5</u>	(mg/L)	SAMPLE TEMPERATURE	<u>15.0</u>	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE good ODOOR none COLOR clear TURBIDITY none

WEATHER CONDITIONS WIND SPEED 6-15 DIRECTION WNW PRECIPITATION Y/N Y OUTLOOK Y

SPECIFIC COMMENTS Polished dry on 9-21-22 Sampled 9-22-22

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

DATE 9-22-22 PRINT Morgan Brown SIGNATURE Morgan Brown

FWG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ ^{breathing} space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 TASK 4

Date: 10-5-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-5
 Measurement Point: TOR
 Constructed Well Depth (ft): 22.0
 Measured Well Depth (ft): 21.93
 Depth of Sediment (ft): _____

Screen Length (ft): 7'
 Depth to Pump Intake (ft)⁽¹⁾: 18
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.4
 Initial Depth to Water (ft): 6.96

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1350	60*	7.60		6.61	17.9	21.797	61.9	0.72	-3.55	0.0	
1355		8.14		6.62	17.6	21.998	65.7	0.44	-1.89	0.1	
1400		8.45		6.63	17.7	22.046	67.2	0.37	-1.03	0.2	
1405		9.18		6.64	17.7	21.991	75.1	0.23	-2.88	0.3	
1410		10.48		6.76	18.6	27.175	69.9	0.26	-0.18	0.4	
1420		10.81		6.94	17.5	14.045	63.1	0.44	-0.16	0.6	
1425		10.90		6.91	17.3	14.821	64.2	0.43	-1.40	0.7	
1430		10.94		6.84	17.3	14.924	64.8	0.41	-1.38	0.8	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s.

* lowest pump rate

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: GMCH Lockport BCP Annual GW Sampling

JOB# 56546-20

WELL# MW-7-5

WELL PURGING INFORMATION

11005274

PURGE DATE
(MM DD YY)

1100527

SAMPLE DATE
(MM DD YY)

1124

WATER VOL IN CASING
(LITRES/GALLONS)

110

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE	☒ B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X-	
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRAID		PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B	C - BLADDER PUMP	F - DIPPER BOTTLE		X-	
						SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - PVC		X-	
		B - STAINLESS STEEL	E - POLYETHYLENE			PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - POLYPROPYLENE			X-	
						SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X-	
		B - TYGON	E - POLYETHYLENE	G - COMBINATION		PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - ROPE	X-	TEFLON/POLYPROPYLENE	X-	
			(SPECIFY)			SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION

1610.916

(m/ft)

GROUNDWATER

ELEVATION

1604.010

(m/ft)

DEPTH TO WATER

16.916

(m/ft)

WELL DEPTH

121.913

(m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>160</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>10</u> (°C)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>160</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>10</u> (°C)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>160</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>10</u> (°C)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>160</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>10</u> (°C)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>160</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>10</u> (°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOOR Some solvent COLOR clear TURBIDITY Some sediment
 WEATHER CONDITIONS WIND SPEED 0-10 DIRECTION NNW PRECIPITATION Y/N OUTLOOK N
 SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

10-5-22
DATE

Morgan Brown
PRINT

[Signature]
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR =

PID @ ^{breathing} space =

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 TASK 4

Date: 10-6-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-6
 Measurement Point: TOR
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): 16.52
 Depth of Sediment (ft): _____

Screen Length (ft): 7'
 Depth to Pump Intake (ft)⁽¹⁾: 1.3
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.1
 Initial Depth to Water (ft): 3.92

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0910	75	4.42		6.72	16.7	18.476	145.0	1.24	0.65	0.0	
0920		4.61		6.87	16.9	18.383	168.0	0.32	6.55	0.2	
0925		4.61		6.91	16.9	17.998	142.9	0.29	14.18	0.3	
0930		4.76		6.91	16.9	17.974	37.2	0.26	14.42	0.4	
0935		4.84		6.91	16.9	18.089	30.4	0.20	11.60	0.5	
0940		4.92		6.92	16.9	18.039	27.9	0.17	10.90	0.7	
0945		4.98		6.92	16.9	18.139	24.4	0.16	0.86	0.9	
0950		4.99		6.92	17.0	18.142	24.1	0.15	1.50	1.0	
0955		4.99		6.92	17.0	18.157	24.9	0.15	1.48	1.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: GMCH Lockport BCP Annual GW Sampling

JOB# 56546-20

WELL# MW-7-6

WELL PURGING INFORMATION

11010622

PURGE DATE
(MM DD YY)

11010622

SAMPLE DATE
(MM DD YY)

1121

WATER VOL IN CASING
(LITRES/GALLONS)

117

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE ☒ B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP C - BAILER X-
B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAID PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ B C - BLADDER PUMP F - DIPPER BOTTLE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE ☒ E A - TEFLON D - PVC X-
B - STAINLESS STEEL E - POLYETHYLENE PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ E C - POLYPROPYLENE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE ☒ E A - TEFLON D - POLYPROPYLENE F - SILICONE X-
B - TYGON E - POLYETHYLENE G - COMBINATION PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ E C - ROPE X-
(SPECIFY) SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION 1606.30 (m/ft)

GROUNDWATER ELEVATION 602.38 (m/ft)

DEPTH TO WATER 319.2 (m/ft)

WELL DEPTH 116.52 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR none COLOR clear TURBIDITY none

WEATHER CONDITIONS WIND SPEED 5-10 DIRECTION SSW PRECIPITATION Y/N OUTLOOK N

SPECIFIC COMMENTS

MS / MSD collected at 10-6-22

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

10-6-22
DATE

Morgan Brown
PRINT

Morgan Brown
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 114.3

PID @ ^{Breathing} space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 TASK 4

Date: 10-4-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-7
 Measurement Point: TOR
 Constructed Well Depth (ft): 22.7
 Measured Well Depth (ft): 27.03
 Depth of Sediment (ft): _____

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 4.0
 Initial Depth to Water (ft): 2.66

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1230		2.68		6.71	17.5	10.936	-142.3	1.01	-5.20	0.0	
1235		2.72		6.76	17.3	11.064	-188.7	0.42	-4.37	0.1	
1240		2.73		6.77	17.2	11.123	-201.1	0.38	-5.08	0.2	
1245		2.74		6.79	17.5	11.166	-222.3	0.25	-3.21	0.3	
1250		2.75		6.79	17.6	11.177	-231.6	0.20	-1.02	0.4	
1255		2.76		6.79	17.9	11.188	-232.8	0.18	4.98	0.5	
1300		2.76		6.79	17.8	11.187	-235.5	0.17	5.01	0.6	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s .

WELL PURGING FIELD INFORMATION FORM				JOB# 56546-20
SITE/PROJECT NAME: <u>GMCH Lockport BCP Annual GW Sampling</u>				WELL# MW-7-7
WELL PURGING INFORMATION				
11010422 PURGE DATE (MM DD YY)	11010422 SAMPLE DATE (MM DD YY)	111410 WATER VOL IN CASING (LITRES/GALLONS)	11107 ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT ☒ DEDICATED ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT ☒ DEDICATED ☐ N (CIRCLE ONE)		
PURGING DEVICE B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	C - BAILER F - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE B	C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE E	C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE E	C - ROPE X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 A A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION 161024 (m/ft)	GROUNDWATER ELEVATION 60758 (m/ft)		WELL DEPTH 2763 (m/ft)	
DEPTH TO WATER 266 (m/ft)				
pH 7.5 (std)	TURBIDITY 0.1 (ntu)	CONDUCTIVITY 150 (µm/cm) AT 25°C	ORP 150 (mV)	DO 8.5 (mg/L)
7.5 (std)	0.1 (ntu)	150 (µm/cm) AT 25°C	150 (mV)	8.5 (mg/L)
7.5 (std)	0.1 (ntu)	150 (µm/cm) AT 25°C	150 (mV)	8.5 (mg/L)
7.5 (std)	0.1 (ntu)	150 (µm/cm) AT 25°C	150 (mV)	8.5 (mg/L)
7.5 (std)	0.1 (ntu)	150 (µm/cm) AT 25°C	150 (mV)	8.5 (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Okay</u> ODOOR <u>Strong Solvent</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED <u>0-10</u> DIRECTION <u>N</u> PRECIPITATION <u>Y/N</u> OUTLOOK <u>N</u> SPECIFIC COMMENTS _____ _____ _____ _____ _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS 10-4-22 <u>Morgan Brown</u> <u>[Signature]</u> DATE PRINT SIGNATURE				

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 19.4

PID @ space breathing = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 10-6-22 - 10-7-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-8
 Measurement Point: TOR
 Constructed Well Depth (ft): 19.7
 Measured Well Depth (ft): 19.45
 Depth of Sediment (ft): _____

Screen Length (ft): 12.7 - 19.7 = 7
 Depth to Pump Intake (ft)⁽¹⁾: 14
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.8
 Initial Depth to Water (ft): 2.27

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1015	dry	2.78		6.90	18.2	14.078	-107.7	0.83	74.60	0.1	
1020		3.81		6.99	18.2	14.086	-122.4	0.35	80.41	2.3	
1025		5.30		6.91	18.5	14.032	-128.8	0.21	61.93	0.6	
1035		7.83		6.92	18.9	13.940	-137.4	0.15	53.60	1.4	
1040		9.05		6.85	18.8	13.169	-135.3	0.17	47.62	1.6	
1045		10.35		6.37	18.9	12.931	-71.3	0.62	52.48	1.8	
1055		11.02		6.08	18.9	12.700	-24.5	0.79	37.75	2.5	
1105		13.31		6.69	18.9	11.332	-103.3	0.17	41.01	3.0	
1115		15.95		6.98	18.6	12.011	-170.2	0.10	175.93	3.8	
1130		19.25		7.12	17.2	14.089	-154.6	0.09	185.92	4.3	
0810		7.89		6.83	17.0	13.697	-80.7	2.60	14.75	0.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM				JOB# 56546-20
SITE/PROJECT NAME: <u>GMCH Lockport BCP Annual GW Sampling</u>				WELL# MW-7-8
WELL PURGING INFORMATION				
1109522 PURGE DATE (MM DD YY)	11010722 SAMPLE DATE (MM DD YY)	11128 WATER VOL. IN CASING (LITRES/GALLONS)	11145 ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE	☒ B A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP		D - GAS LIFT PUMP E - PURGE PUMP	C - BAILER H - WATERRA® X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B C - SLADDER PUMP		F - DIPPER BOTTLE X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE	☒ E A - TEFLON B - STAINLESS STEEL		D - PVC E - POLYETHYLENE X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE	☒ E C - POLYPROPYLENE X- _____ SAMPLING OTHER (SPECIFY)			
PURGING DEVICE	☒ E A - TEFLON B - TYGON		D - POLYPROPYLENE F - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E C - ROPE X- _____ (SPECIFY)			X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	1611092 (m/ft)		GROUNDWATER ELEVATION	60865 (m/ft)
DEPTH TO WATER	227 (m/ft)		WELL DEPTH	11995 (m/ft)
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
 (std)	 (ntu)	 (µm/cm) AT 25°C	 (mV)	 (mg/L)
 (std)	 (ntu)	 (µm/cm) AT 25°C	 (mV)	 (mg/L)
 (std)	 (ntu)	 (µm/cm) AT 25°C	 (mV)	 (mg/L)
 (std)	 (ntu)	 (µm/cm) AT 25°C	 (mV)	 (mg/L)
 (std)	 (ntu)	 (µm/cm) AT 25°C	 (mV)	 (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE: <u>solvent</u> COLOR: <u>orange</u> TURBIDITY: <u>cloudy</u> WEATHER CONDITIONS: WIND SPEED: <u>5-10</u> DIRECTION: <u>NNW</u> PRECIPITATION Y/N: <u>N</u> OUTLOOK: <u>N</u> SPECIFIC COMMENTS: <u>Well purged dry 10-5-22. Water levels were checked after 24 hours (on 10-6-22) 95% recovery was not met. Well was left to refill and sampled on 10-7-22</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS DATE: <u>10-7-22</u> PRINT: <u>Morgan Brown</u> SIGNATURE: <u>[Signature]</u>				

FMC MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 443.4

PID @ space breathing = 0.3

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 10-5-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-A-6
 Measurement Point: TOR
 Constructed Well Depth (ft): 14.25
 Measured Well Depth (ft): 14.03
 Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (mL)⁽²⁾: 1.7
 Initial Depth to Water (ft): 3.40

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1205	80*	3.43		6.68	18.7	7.007	-70.5	0.82	-2.44	0.0	
1210		3.71		6.65	18.6	6.927	-82.7	0.33	-4.81	0.1	
1215		3.86		6.63	18.6	6.879	-87.3	0.24	-2.95	0.2	
1220		3.94		6.50	18.6	6.815	-87.4	0.19	1.45	0.3	
1225		4.21		6.40	18.5	6.038	-86.4	0.15	4.52	0.4	
1230		4.26		6.37	18.6	6.025	-84.4	0.14	20.34	0.6	
1235		4.39		6.29	18.5	5.731	-83.5	0.15	20.68	0.7	
1240		4.42		6.28	18.5	5.761	-83.4	0.14	20.71	0.9	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

*

Lowest pump rate

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport BCP Annual GW Sampling</u>				WELL# <u>MW-7-A-6</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>11/01/2012</u>	SAMPLE DATE (MM DD YY) <u>11/01/2012</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>117</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>117</u>	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>	C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>	C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	C - ROPE X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERTING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1610.72</u> (m/ft)	GROUNDWATER ELEVATION <u>1607.32</u> (m/ft)		WELL DEPTH <u>1410.3</u> (m/ft)	
DEPTH TO WATER <u>34.0</u> (m/ft)	pH <u> </u> (mV)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
	<u> </u> (mV)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Okay</u> COLOR <u>Solvent</u> COLOR <u>Clear</u> TURBIDITY <u>Some</u>				
WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>NW</u> PRECIPITATION Y/N OUTLOOK <u>N</u>				
SPECIFIC COMMENTS _____				

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
<u>10-5-22</u> DATE	<u>Morgan Brown</u> PRINT	<u>[Signature]</u> SIGNATURE		

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ breathing space = 0.0

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
Ref. No.: 56546.20 Task 4

Date: 10-4-22
Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-C-2

Measurement Point: TOR

Constructed Well Depth (ft): 24.0

Measured Well Depth (ft): 24.08

Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 21'
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 3.0
 Initial Depth to Water (ft): 5.82

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ ^{breathing} space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546.00 TASK 4

Date: 10-6-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-A-1
 Measurement Point: TOR
 Constructed Well Depth (ft): 20.0
 Measured Well Depth (ft): 19.85
 Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 1.7
 Initial Depth to Water (ft): 9.51

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1140	80*	9.64		6.51	21.7	15.248	-91.9	0.83	-5.11	0.0	
1145		9.67		6.51	21.7	15.101	-101.1	0.34	-4.71	0.1	
1150		9.98		6.52	21.8	14.958	-103.1	0.30	-4.62	0.3	
1155		10.56		6.53	21.8	14.703	-106.4	0.25	-4.51	0.4	
1200		10.80		6.54	21.8	14.530	-108.6	0.22	-4.38	0.6	
1205		10.81		6.54	21.9	14.461	-109.1	0.21	-4.34	0.7	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
 - The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5'12") \cdot (2.54)^3$
 - The drawdown from the initial water level should not exceed 0.3 ft.
 - Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .
- (*) Lowest Pump rate

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport BLP Annual GW Sampling</u>				WELL# <u>MW-7-A1</u>
WELL PURGING INFORMATION				
<u>11006212</u> PURGE DATE (MM DD YY)	<u>110906212</u> SAMPLE DATE (MM DD YY)	<u>11117</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11017</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRAIG	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>	C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>	C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	C - ROPE X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>11111</u> (m/ft)	GROUNDWATER ELEVATION <u>11111</u> (m/ft)		WELL DEPTH <u>11915</u> (m/ft)	
DEPTH TO WATER <u>11111</u> (m/ft)	pH <u>7.5</u> (std)	TURBIDITY <u>1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>150</u> (mV)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u>	ODOR <u>None</u>	COLOR <u>clear</u>	TURBIDITY <u>none</u>	
WEATHER CONDITIONS WIND SPEED <u>9-15</u> DIRECTION <u>SW</u> PRECIPITATION <u>1/4 N</u> OUTLOOK <u>N</u>				
SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE <u>10-6-22</u>	PRINT <u>Morgan Brown</u>		SIGNATURE <u>[Signature]</u>	

PAIG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GMCH Lockport Annual BCP Site GW Sampling PROJECT NO. 56546.20T4
 SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Richard Bohlen
 DATE OF SAMPLE COLLECTION 9-27-22 - 9-29-22

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-6-1-092922	MW-6-1	598.23	18.80	5.51	592.72	2.2		0.6	6.88	16.7	4.744	1100	VOC MNA
MW-6-2-092922	MW-6-2	609.33	26.11	5.91	603.42	3.3		0.6	7.09	16.3	3.733	0935	VOC MNA
MW-6-F-8-092922	MW-6-F-8	612.26	14.35	7.28	604.98	1.2		1.0	6.97	19.2	6.820	1220	VOC MNA
MW-8-1-092722	MW-8-1	615.11	20.30	5.31	609.80	2.4		0.6	6.96	16.9	5.516	1529	VOC MNA
MW-8-2-092722	MW-8-2	615.14	21.71	7.44	607.70	2.3		0.7	7.15	20.4	2.460	1258	VOC MNA
MW-8-3-092822	MW-8-3	615.06	22.06	8.41	606.65	2.2		2.8	6.84	20.6	6.235	1845	VOC MNA
MW-8-4-092822	MW-8-4	613.01	21.42	8.54	604.47	2.1		1.2	7.44	18.5	3.983	1145	VOC MNA
MW-8-003-B-092822	MW-8-003-B	610.94	14.33	4.62	606.32	1.6		0.7	7.44	19.3	13.222	0923	VOC MNA

Additional Comments:

Duplicate - 1 collected at MW-8-2-092722

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

AID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-29-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-1
 Measurement Point: TOR
 Constructed Well Depth (ft): 17
 Measured Well Depth (ft): 18.80
 Depth of Sediment (ft): _____

Screen Length (ft): 7-17 = 10
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Initial Depth to Water (ft): 5.51

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1020	80	5.86		6.88	16.9	4.674	-111.9	1.01	31.33	0.0	
1025		5.91		6.87	16.8	4.724	-117.3	0.56	27.84	0.1	
1030		5.92		6.88	16.7	4.729	-120.1	0.34	22.43	0.2	
1035		5.92		6.88	16.6	4.733	-122.9	0.28	19.51	0.3	
1040		5.93		6.88	16.7	4.744	-123.1	0.26	14.09	0.4	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length. $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s .

PID @ TOR = 0.0

AID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 9-29-22
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-2 Screen Length (ft): 14.6 - 26.6 = 10
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 19
 Constructed Well Depth (ft): 29.16 Well Diameter, D (in): 2
 Measured Well Depth (ft): 26.11 Well Screen Volume, V_s (mL)⁽²⁾: 3.3
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 5.91

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0905	80	6.07		7.03	16.5	3.719	-66.9	1.01	-5.47	0.0	
0910		6.06		7.07	16.4	3.735	-81.3	0.53	-5.60	0.1	
0915		6.07		7.09	16.3	3.735	-79.8	0.41	-5.66	0.2	
0920		6.08		7.09	16.3	3.732	-79.1	0.29	-5.56	0.3	
0925		6.08		7.09	16.3	3.733	-79.1	0.28	-5.61	0.4	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s.

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-29-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-F-8
 Measurement Point: TOR
 Constructed Well Depth (ft): 15.4
 Measured Well Depth (ft): 14.35
 Depth of Sediment (ft):

Screen Length (ft): 8-15.4 = 7.4
 Depth to Pump Intake (ft)⁽¹⁾: 1.2
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 1.2
 Initial Depth to Water (ft): 7.28

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1140	20	7.41		7.00	18.9	6.674	58.3	1.22	-3.70	0.0	
1145		7.40		6.97	19.3	6.723	55.5	0.61	-4.77	0.1	
1150		7.40		6.97	19.5	6.768	53.3	0.54	-5.03	0.2	
1155		7.40		6.97	19.9	6.813	52.0	0.38	-4.88	0.4	
1200		7.40		6.97	19.4	6.824	57.6	0.31	-5.11	0.6	
1205		7.40		6.97	19.2	6.824	64.0	0.26	-5.15	0.7	
1210		7.39		6.97	19.2	6.820	69.8	0.25	-5.14	0.8	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>CMCH Lockport Annual 1 BCP Site GW Sampling</u>				WELL# <u>MW-6-F8</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/9/2012</u>	SAMPLE DATE (MM DD YY) <u>10/9/2012</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>112</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>110</u>	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED <u>(Y)</u> N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED <u>(Y)</u> N (CIRCLE ONE)		
PURGING DEVICE	<u>B</u> A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	C - BAILER F - WATERRAIG	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	<u>B</u> C - SLADDER PUMP	F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE	<u>E</u> A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE	<u>E</u> C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE	<u>E</u> A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	<u>E</u> C - ROPE X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>612.26</u> (m/ft)	GROUNDWATER ELEVATION	<u>610.498</u> (m/ft)	
DEPTH TO WATER	<u>7.28</u> (m/ft)	WELL DEPTH	<u>114.35</u> (m/ft)	
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE	<u>Good</u>	ODOR	<u>none</u>	COLOR
WEATHER CONDITIONS	WIND SPEED	DIRECTION	PRECIPITATION	Y/N OUTLOOK
SPECIFIC COMMENTS	<u>0-10</u>	<u>N</u>	<u>clear</u>	<u>some</u>
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE	PRINT	SIGNATURE		
<u>9-29-22</u>	<u>Morgan Brown</u>	<u>[Signature]</u>		

FAC MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

AID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-27-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-1
 Measurement Point: TOR
 Constructed Well Depth (ft): 22.5
 Measured Well Depth (ft): 20.30
 Depth of Sediment (ft): _____

Screen Length (ft): 7
 Depth to Pump Intake (ft)⁽¹⁾: 17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.4
 Initial Depth to Water (ft): 5.31

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1450	75	5.68		6.94	17.0	5.490	-137.9	0.78	2.09	0.0	
1455		5.71		6.95	17.0	5.492	-166.2	0.45	1.41	0.1	
1500		5.73		6.96	17.0	5.499	-180.7	0.36	-0.59	0.2	
1505		5.77		6.96	17.0	5.505	-200.0	0.28	0.65	0.25	
1510		5.79		6.97	16.9	5.505	-211.5	0.24	0.61	0.3	
1515		5.83		6.97	16.9	5.507	-238.0	0.18	0.61	0.4	
1520				6.96	16.9	5.516	-241.1	0.17	0.67	0.5	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s.

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>CMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-8-1</u>
WELL PURGING INFORMATION				
<u>101912171221</u> PURGE DATE (MM DD YY)	<u>101912171221</u> SAMPLE DATE (MM DD YY)	<u>11124</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11106</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE	☒ B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	C - BAILER H - WATERRAAB
SAMPLING DEVICE	☒ B	C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ PURGING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - POLYPROPYLENE		X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE
SAMPLING DEVICE	☒ E	C - ROPE	X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>161511</u> (m/ft)	GROUNDWATER ELEVATION	<u>160980</u> (m/ft)	
DEPTH TO WATER	<u>1531</u> (m/ft)	WELL DEPTH	<u>2030</u> (m/ft)	
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE	<u>Good</u>	ODOR	<u>none</u>	COLOR
WEATHER CONDITIONS	WIND SPEED	DIRECTION	<u>WSW</u>	PRECIPITATION Y/N
SPECIFIC COMMENTS	<u>clear</u> TURBIDITY <u>cloudy</u> <u>Y</u> OUTLOOK			
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>9-27-22</u> <u>Morgan Brown</u> <u>Morgan Brown</u> DATE PRINT SIGNATURE				

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

AID @ breathing space = 0.0

Project Data:

Project Name: EMCH Lockport Annual BCP Site GW Sampling
Ref. No.: 56546.20 Task 4

Date: 9-27-22
Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-2

Measurement Point: TOR

Constructed Well Depth (ft): 23.0

Measured Well Depth (ft): 21.71

Depth of Sediment (ft):

Screen Length (ft): 16.23
Depth to Pump Intake (ft)⁽¹⁾: 19
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)⁽²⁾: 2.3
Initial Depth to Water (ft): 7.44

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length. $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: EMCH Lockport Anna 1 BCP Site GW Sampling

JOB# 56546-20

WELL# MW-8-2

WELL PURGING INFORMATION

09/27/22

PURGE DATE
(MM DD YY)

09/27/22

SAMPLE DATE
(MM DD YY)

23

WATER VOL IN CASING
(LITRES/GALLONS)

0.7

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ☒ N
(CIRCLE ONE)

PURGING DEVICE ☒ B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP C - BAILER X-
B - PERISTALTIC PUMP E - PURGE PUMP H - WATERBATH PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ B C - SLADDER PUMP F - DIPPER BOTTLE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE ☒ E A - TEFLON D - PVC X-
B - STAINLESS STEEL E - POLYETHYLENE PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ E C - POLYPROPYLENE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE ☒ E A - TEFLON D - POLYPROPYLENE F - SILICONE X-
B - TYGON E - POLYETHYLENE G - COMBINATION PURGING OTHER (SPECIFY)

SAMPLING DEVICE ☒ E C - ROPE X-
(SPECIFY) TEFLON/POLYPROPYLENE SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION 161.5714 (m/ft)

GROUNDWATER ELEVATION 607.70 (m/ft)

DEPTH TO WATER 17.44 (m/ft)

WELL DEPTH 21.71 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOOR Slight Solvent COLOR clear TURBIDITY none

WEATHER CONDITIONS WIND SPEED 10-15 DIRECTION W PRECIPITATION Y/N OUTLOOK Y

SPECIFIC COMMENTS

Duplicate-1 collected on 9-27-22

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

9-27-22
DATE

Morgan Brown
PRINT

[Signature]
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ breathing space = 0.3

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-27-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-3
 Measurement Point: TOR
 Constructed Well Depth (ft): 22.4
 Measured Well Depth (ft): 22.06
 Depth of Sediment (ft):

Screen Length (ft): 7
 Depth to Pump Intake (ft)⁽¹⁾: 19
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Initial Depth to Water (ft): 8.41

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1040	Pump dry	9.72		6.83	20.6	8.340	-74.7	0.40	3.47	0.1	
1045		10.31		6.87	20.6	7.754	-75.5	0.34	12.97	0.3	
1050		11.13		6.88	20.7	7.022	-69.9	0.29	23.90	0.4	
1055		11.87		6.91	20.8	6.432	-61.2	0.26	31.57	0.6	
1100		12.55		6.92	20.9	6.318	-48.2	0.24	20.63	0.9	
1110		14.14		6.93	20.9	6.248	-41.2	0.20	20.40	1.25	
1120		15.83		6.95	20.9	6.188	-48.8	0.21	26.85	1.5	
1135		16.89		6.97	20.9	6.078	-73.5	0.72	28.75	2.1	
1150		18.20		6.95	20.6	6.270	-88.5	0.35	34.09	2.5	
1155	dry	19.08		6.92	20.9	6.378	-87.3	0.62	28.56	2.75	
1335		8.73		6.89	20.6	6.235	-13.8	3.58	2.91	0.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length. $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: CMCH Lockport Annual 1
ACP Site GW Sampling

JOB# 56546-20

WELL# MW-8-3

WELL PURGING INFORMATION

10912722

PURGE DATE
(MM DD YY)

10912822

SAMPLE DATE
(MM DD YY)

1122

WATER VOL IN CASING
(LITRES/GALLONS)

1128

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

SAMPLING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

PURGING DEVICE

B

A - SUBMERSIBLE PUMP
B - PERISTALTIC PUMP

D - GAS LIFT PUMP
E - PURGE PUMP

G - BAILER
H - WATERRA®

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

B

C - BLADDER PUMP

F - DIPPER BOTTLE

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON
B - STAINLESS STEEL

D - PVC
E - POLYETHYLENE

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

C - POLYPROPYLENE

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON
B - TYGON

D - POLYPROPYLENE
E - POLYETHYLENE

F - SILICONE

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

C - ROPE

X- (SPECIFY)

G - COMBINATION
TEFLON/POLYPROPYLENE

X-

SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☐

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION

161506

(m/ft)

GROUNDWATER
ELEVATION

60665

(m/ft)

DEPTH TO WATER

8411

(m/ft)

WELL DEPTH

7206

(m/ft)

pH

(std) (std) (std) (std) (std)

TURBIDITY

(ntu) (ntu) (ntu) (ntu) (ntu)

CONDUCTIVITY

(µm/cm) (µm/cm) (µm/cm) (µm/cm) (µm/cm)
AT 25°C AT 25°C AT 25°C AT 25°C AT 25°C

ORP

(mV) (mV) (mV) (mV) (mV)

DO

(mg/L) (mg/L) (mg/L) (mg/L) (mg/L)

SAMPLE TEMPERATURE

(°C) (°C) (°C) (°C) (°C)

FIELD COMMENTS

SAMPLE APPEARANCE

Good

ODOR

Some solvent

COLOR

clear

TURBIDITY

none

WEATHER CONDITIONS

WIND SPEED

5-15

DIRECTION

WSW

PRECIPITATION Y/N

Y

SPECIFIC COMMENTS

Purged until dry on 9-27-22 sampled on 9-28-22

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GSI PROTOCOLS

9-27-22
DATE

Morgan Brown
PRINT

Morgan Brown
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-28-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-4
 Measurement Point: TOR
 Constructed Well Depth (ft): 21.8
 Measured Well Depth (ft): 21.42
 Depth of Sediment (ft): _____

Screen Length (ft): 14.8 - 21.8 = 7
 Depth to Pump Intake (ft)⁽¹⁾: 18
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.1
 Initial Depth to Water (ft): 8.54

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1040	75	9.20		8.69	18.1	0.496	12.8	6.58	28.22	0.0	
1045		9.54		8.64	18.2	0.349	24.9	6.60	27.68	0.1	
1050		9.97		8.66	18.3	0.397	34.2	6.63	26.08	0.2	
1055		10.23		8.49	18.5	0.474	43.5	6.63	25.28	0.3	
1100		10.47		8.32	18.6	0.757	50.1	6.49	24.18	0.4	
1105		10.70		7.88	18.5	4.562	75.7	2.43	13.05	0.4	
1115		10.93		7.65	18.5	2.807	63.7	4.80	15.01	0.7	
1125		11.42		7.61	18.6	2.752	69.1	4.64	12.21	0.8	
1130		11.47		7.51	18.7	3.421	74.5	4.15	11.13	0.9	
1135		11.58		7.47	18.6	3.884	74.0	3.73	9.05	1.0	
1140		11.60		7.44	18.5	3.983	74.5	3.61	8.73	1.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5' \cdot 12") \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM
SITE/PROJECT NAME: CMCH Lockport Annual 1 BCP Site GW Sampling

WELL# MW-8-4

PURGE DATE
(MM DD YY)

SAMPLE DATE
(MM DD YY)

WATER VOL IN CASING
(LITRES/GALLONS)

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING EQUIPMENT.....DEDICATED Y N
(CIRCLE ONE)

SAMPLING DEVICE B C. SLADDER PUMP F. DIPPER BOTTLE X- _____
SAMPLING UTHER (SPECIFY)

SAMPLING DEVICE E C. POLYPROPYLENE X- SAMPLING OTHER (SPECIFY)

SAMPLING DEVICE E B. TYGON C. ROPE X- _____
 F. POLYETHYLENE G. SILICONIZED NYLON
 H. POLYURETHANE I. POLYVINYL CHLORIDE
 J. POLYISOPRENE K. POLYBUTYLENE
 L. POLYACETYLENE M. POLYPROPYLENE
 N. POLYETHYLENE TEREPHTHALATE
 O. POLYETHYLENE TEREPHTHALATE
 P. POLYETHYLENE TEREPHTHALATE
 Q. POLYETHYLENE TEREPHTHALATE
 R. POLYETHYLENE TEREPHTHALATE
 S. POLYETHYLENE TEREPHTHALATE
 T. POLYETHYLENE TEREPHTHALATE
 U. POLYETHYLENE TEREPHTHALATE
 V. POLYETHYLENE TEREPHTHALATE
 W. POLYETHYLENE TEREPHTHALATE
 X. _____
 Y. _____
 Z. _____
 SAMPLING OTHER (SPECIFY) _____

		(SPECIFY)		
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM

WELL ELEVATION

		6	1	3	0	1
--	--	---	---	---	---	---

 (m/ft)

DEPTH TO WATER

				8	5	4
--	--	--	--	---	---	---

 (m/ft)

GROUNDWATER ELEVATION 604.47 (m/ft)

WELL DEPTH 21.42 (m/ft)

Figure 1 displays a 5x5 grid of calibration curves for various water quality parameters. The columns are labeled pH, TURBIDITY, CONDUCTIVITY, ORP, DO, and SAMPLE TEMPERATURE. Each row represents a different sample, with its name in the rightmost column. Each plot shows a linear relationship between the parameter value and a signal (e.g., voltage for ORP, current for DO).

Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
pH	(std)	(std)	(std)	(std)	(std)
TURBIDITY	(ntu)	(ntu)	(ntu)	(ntu)	(ntu)
CONDUCTIVITY	($\mu\text{m/cm}$) AT 25°C	($\mu\text{m/cm}$) AT 25°C	($\mu\text{m/cm}$) AT 25°C	($\mu\text{m/cm}$) AT 25°C	($\mu\text{m/cm}$) AT 25°C
ORP	(mV)	(mV)	(mV)	(mV)	(mV)
DO	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SAMPLE TEMPERATURE	(°C)	(°C)	(°C)	(°C)	(°C)

SAMPLE APPEARANCE Good ODOR none COLOR light brown TURBIDITY some
WEATHER CONDITIONS WIND SPEED 8-10 DIRECTION WNW PRECIPITATION Y/N OUTLOOK Y
SPECIFIC COMMENTS _____

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS.

9-28-22
DATE

Morgan Brown
PRINT()

[Signature]
SIGNATURE

FPMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID @ TOR = 12.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling
 Ref. No.: 56546.20 Task 4

Date: 9-28-22
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-003-B
 Measurement Point: TOR
 Constructed Well Depth (ft): 15
 Measured Well Depth (ft): 14.33
 Depth of Sediment (ft):

Screen Length (ft):
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in):
 Well Screen Volume, V_s (mL)⁽²⁾: 1.6
 Initial Depth to Water (ft): 4.62

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0845	80	4.88		7.32	18.7	13.391	109.4	0.84	2.83	0.0	
0850		4.88		7.39	18.8	13.346	95.8	0.49	0.51	0.1	
0855		4.88		7.40	19.9	13.335	90.6	0.46	-1.75	0.2	
0900		4.88		7.42	19.0	13.341	84.2	0.39	-3.61	0.3	
0905		4.87		7.43	19.1	13.327	80.5	0.34	-3.58	0.4	
0910		4.88		7.44	19.2	13.229	75.0	0.29	-3.85	0.5	
0915		4.88		7.44	19.3	13.222	74.8	0.28	-3.88	0.6	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: CMCH Lockport Annual 1
ACP Site GW Sampling

JOB# 56546-20

WELL# MW-8-003

B

WELL PURGING INFORMATION

10/9/28/22

PURGE DATE
(MM DD YY)

10/9/28/22

SAMPLE DATE
(MM DD YY)

1116

WATER VOL IN CASING
(LITRES/GALLONS)

107

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

PURGING DEVICE B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X-
B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAID PURGING OTHER (SPECIFY)

SAMPLING DEVICE B C - BLADDER PUMP F - DIPPER BOTTLE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE E A - TEFLON D - PVC X-
B - STAINLESS STEEL E - POLYETHYLENE PURGING OTHER (SPECIFY)

SAMPLING DEVICE E C - POLYPROPYLENE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE E A - TEFLON D - POLYPROPYLENE F - SILICONE X-
B - TYGON E - POLYETHYLENE G - COMBINATION PURGING OTHER (SPECIFY)

SAMPLING DEVICE E C - ROPE X-
TEFLON/POLYPROPYLENE SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION 610.94 (m/ft)

GROUNDWATER ELEVATION 606.32 (m/ft)

DEPTH TO WATER 4.62 (m/ft)

WELL DEPTH 114.33 (m/ft)

pH (std) TURBIDITY (ntu) CONDUCTIVITY (µm/cm) ORP (mV) DO (mg/L) SAMPLE TEMPERATURE (°C)
AT 25°C
 (std) (ntu) (µm/cm) (mV) (mg/L) (°C)
AT 25°C
 (std) (ntu) (µm/cm) (mV) (mg/L) (°C)
AT 25°C
 (std) (ntu) (µm/cm) (mV) (mg/L) (°C)
AT 25°C

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR None COLOR slight orange TURBIDITY Some Sediment
WEATHER CONDITIONS WIND SPEED 5-10 DIRECTION NNW PRECIPITATION Y/N OUTLOOK Y
SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

9-28-22
DATE

Morgan Brown
PRINT

Morgan Brown
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GMCH Lockport Annual BCP Site GW Sampling PROJECT NO. 56546.20 T 4
 SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Richard Bohlen
 DATE OF SAMPLE COLLECTION 9-26-22 - 10-3-22

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-9-12-092622	MW-9-12	614.92	15.59	6.23	608.69	1.5		0.6	7.39	16.6	3407	1405	VOC MNA PAH
MW-9-101-A-092622	MW-9-101-A	613.53	12.23	4.76	608.77	1.2		0.7	6.92	19.4	11.228	0915	VOC MNA PAH
BLDG-10-MW-1-100322	BLDG-10-MW-1	615.05	15.58	5.97	609.08	1.4		1.1	6.84	20.8	2.742	1635	VOC MNA
MW-10-2-100322	MW-10-2	611.26	16.10	3.16	608.10	2.1		1.0	7.19	18.4	7.592	1420	VOC MNA
MW-10-3-092622	MW-10-3	610.40	16.39	3.67	606.75	2.1		0.7	7.60	16.9	1.618	1117	VOC MNA
TK-6-100322	TK-6	621.69	13.23	10.26	611.43	0.5		0.5	7.08	18.9	7.755	1515	VOC MNA

Additional Comments:

MS/MSD collected at MW-10-3 on 09-26-22
Duplicate-2 collected at BLDG-10-MW-1 on 10-3-22

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

$PID @ \text{breathing space} = 0.0$

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 9-26-27
Rel. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-9-12
Measurement Point: TOR
Constructed Well Depth (ft): 15.43
Measured Well Depth (ft): 15.59
Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: ~ 11
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (mL)⁽²⁾: 1.5
 Initial Depth to Water (ft): 6.13

[illegible]

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length. $V_s = p \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-9-12</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/9/2012</u>	SAMPLE DATE (MM DD YY) <u>10/9/2012</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>11.5</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>10.6</u>	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT... DEDICATED ☒ Y N (CIRCLE ONE)		SAMPLING EQUIPMENT... DEDICATED ☒ Y N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>	C - SLADDER PUMP	F - DIPPER BOTTLE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>	C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	C - ROPE X- _____ (SPECIFY)	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1614.92</u> (m/ft)	GROUNDWATER ELEVATION <u>608.69</u> (m/ft)		WELL DEPTH <u>115.9</u> (m/ft)	
DEPTH TO WATER <u>16.23</u> (m/ft)				
pH <u>(std)</u>	TURBIDITY <u>(ntu)</u>	CONDUCTIVITY <u>(µm/cm)</u> AT 25°C	ORP <u>(mV)</u>	DO <u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(µm/cm)</u> AT 25°C	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(µm/cm)</u> AT 25°C	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(µm/cm)</u> AT 25°C	<u>(mV)</u>	<u>(mg/L)</u>
<u>(std)</u>	<u>(ntu)</u>	<u>(µm/cm)</u> AT 25°C	<u>(mV)</u>	<u>(mg/L)</u>
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>None</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>SW</u> PRECIPITATION Y/N OUTLOOK <u>Y</u> SPECIFIC COMMENTS _____ _____ _____ _____ _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE OGI PROTOCOLS <u>9-26-12</u> <u>Morgan Brown</u> <u>Morgan Brown</u> DATE PRINT SIGNATURE				

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID@TOR = 0.0

PID@breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 9-26-22
 Ref. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-9-101-A Screen Length (ft): 5
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: ~8
 Constructed Well Depth (ft): 12.54 Well Diameter, D (in): 2
 Measured Well Depth (ft): 12.23 Well Screen Volume, V_s (mL)⁽²⁾: 1.2
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 4.76

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0843	75	4.79		6.80	18.2	11.136	239.8	1.80	-5.33	0.0	
0848		4.81		6.89	18.7	11.172	231.8	1.43	-5.49	0.1	
0855		4.81		6.91	18.9	11.194	226.8	1.38	-5.60	0.2	
0900		4.82		6.91	19.2	11.171	224.1	1.36	-5.60	0.3	
0905		4.82		6.92	19.4	11.228	228.1	1.42	-5.63	0.5	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: EMCH Lockport Annual BCP Site GW Sampling

JOB# 56546-20

WELL# MW-9-101-A

092622

PURGE DATE
(MM DD YY)

092622

SAMPLE DATE
(MM DD YY)

1112

WATER VOL IN CASING
(LITRES/GALLONS)

107

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

PURGING DEVICE B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X-
B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAID PURGING OTHER (SPECIFY)

SAMPLING DEVICE B C - BLADDER PUMP F - DIPPER BOTTLE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE E A - TEFLON D - PVC X-
B - STAINLESS STEEL E - POLYETHYLENE PURGING OTHER (SPECIFY)

SAMPLING DEVICE E C - POLYPROPYLENE X-
SAMPLING OTHER (SPECIFY)

PURGING DEVICE E A - TEFLON D - POLYPROPYLENE F - SILICONE X-
B - TYGON E - POLYETHYLENE G - COMBINATION PURGING OTHER (SPECIFY)

SAMPLING DEVICE E C - ROPE X-
TEFLON/POLYPROPYLENE SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION 1613.53 (m/ft)

GROUNDWATER ELEVATION 1608.77 (m/ft)

DEPTH TO WATER 147.6 (m/ft)

WELL DEPTH 112.3 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (um/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (um/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (um/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (um/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (um/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOOR none COLOR none TURBIDITY clear
WEATHER CONDITIONS WIND SPEED 5-10 DIRECTION SW PRECIPITATION Y/N OUTLOOK Y
SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE ECM PROTOCOLS

9-26-22
DATE

Morgan Brown
PRINT

[Signature]
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

$PID @ \text{breathing space} = 0.2$

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10-3-22
Ref. No.: 56546.20 T.4 Personnel: M. Brown

Well No.: BLAG-10-MW-1
Measurement Point: TOP
Constructed Well Depth (ft): 16.0
Measured Well Depth (ft): 15.68
Depth of Sediment (ft): _____

Screen Length (ft): 5
Depth to Pump Intake (ft)⁽¹⁾: 13
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)⁽²⁾: 1.4
Initial Depth to Water (ft): 5.97

[illegible]

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

* Lowest pump rate

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>B2A6-10</u> MW-1
WELL PURGING INFORMATION				
<u>11003122</u> PURGE DATE (MM DD YY)	<u>11003122</u> SAMPLE DATE (MM DD YY)	<u>114</u> WATER VOL. IN CASING (LITRES/GALLONS)	<u>111</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE	☒ B A - SUBMERSIBLE PUMP ☐ B PERISTALTIC PUMP ☐ C - BLADDER PUMP		☐ D - GAS LIFT PUMP ☐ E - PURGE PUMP ☐ F - DIPPER BOTTLE	☒ C - BAILER ☐ H - WATERA®
				X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B ☐ C - BLADDER PUMP		☐ F - DIPPER BOTTLE	
				X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E A - TEFLON ☐ B - STAINLESS STEEL ☐ C - POLYPROPYLENE		☐ D - PVC ☐ E - POLYETHYLENE	
				X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E ☐ C - POLYPROPYLENE		☐ D - PVC ☐ E - POLYETHYLENE	
				X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E A - TEFLON ☐ B - TYGON ☐ C - ROPE		☐ D - POLYPROPYLENE ☐ E - POLYETHYLENE ☐ F - SILICONE ☐ G - COMBINATION ☐ H - TEFLO/ POLYPROPYLENE	
				X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E ☐ C - ROPE		☐ D - POLYPROPYLENE ☐ E - POLYETHYLENE ☐ F - SILICONE ☐ G - COMBINATION ☐ H - TEFLO/ POLYPROPYLENE	
				X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>6115.05</u> (m/ft)		GROUNDWATER ELEVATION	<u>6109.08</u> (m/ft)
DEPTH TO WATER	<u>15.97</u> (m/ft)		WELL DEPTH	<u>116.58</u> (m/ft)
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>solvent &</u> ODOUR <u>solvent smell</u> COLOR <u>yellow</u> TURBIDITY <u>slightly cloudy</u> WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>NE</u> PRECIPITATION Y/N OUTLOOK <u>N</u> SPECIFIC COMMENTS <u>Duplicate-2 collected at 10-3-22</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GSI PROTOCOLS <u>10-3-22</u> DATE <u>Morgan Brown</u> PRINT(S) <u>[Signature]</u> SIGNATURE				

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID@TOR = 0.5

PID@breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10-3-22
 Ref. No.: 56546.20 T.4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-10-2 Screen Length (ft): 9.8 - 16.8 = 7
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: ~14
 Constructed Well Depth (ft): 16.80 Well Diameter, D (in): 2
 Measured Well Depth (ft): 16.10 Well Screen Volume, V_s (mL)⁽²⁾: 2.1
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 3-16

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1330	80*	3.72		7.23	18.7	7.876	-35.1	1.95	1.86	0.0	
1335		3.97		7.22	18.5	7.926	-36.1	1.25	-1.50	0.1	
1340		4.41		7.23	18.5	8.043	-67.5	0.93	-3.42	0.2	
1345		4.71		7.23	18.6	7.881	-81.1	0.85	-3.16	0.3	
1350		4.82		7.21	18.6	7.787	-88.6	0.70	-3.06	0.4	
1355		5.25		7.20	18.5	7.868	-95.7	0.61	-3.36	0.5	
1400		5.30		7.20	18.5	7.604	-96.1	0.60	-3.76	0.6	
1405		5.46		7.20	18.4	7.693	-97.3	0.58	-1.30	0.7	
1410		5.48		7.19	18.4	7.892	-97.9	0.53	-1.40	0.8	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s.

* Lowest Pump Rate

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: EMCH Lockport Annual BCP Site GW Sampling

JOB# 56546-210

WELL# M/W-10-2

WELL PURGING INFORMATION

11010322

PURGE DATE
(MM DD YY)

11010322

SAMPLE DATE
(MM DD YY)

111211

WATER VOL IN CASING
(LITRES/GALLONS)

111101

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N
(CIRCLE ONE)

PURGING DEVICE	<u>B</u>	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X-	PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	X-	
SAMPLING DEVICE	<u>B</u>	C - BLADDER PUMP	F - DIPPER BOTTLE		X-	SAMPLING OTHER (SPECIFY)
					X-	
PURGING DEVICE	<u>E</u>	A - TEFLON	D - PVC		X-	PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		X-	
SAMPLING DEVICE	<u>E</u>	C - POLYPROPYLENE			X-	SAMPLING OTHER (SPECIFY)
					X-	
PURGING DEVICE	<u>E</u>	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X-	PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION	X-	
SAMPLING DEVICE	<u>E</u>	C - ROPE		TEFLON/POLYPROPYLENE	X-	SAMPLING OTHER (SPECIFY)
					X-	

FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	<u>1611216</u>	(m/ft)	GROUNDWATER ELEVATION	<u>16108140</u>	(m/ft)
DEPTH TO WATER	<u>13116</u>	(m/ft)	WELL DEPTH	<u>116110</u>	(m/ft)
pH	<u> </u> (std)	TURBIDITY	<u> </u> (ntu)	CONDUCTIVITY	<u> </u> (µm/cm) AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	ORP	<u> </u> (mV)	DO
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	SAMPLE TEMPERATURE
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm) AT 25°C	<u> </u> (mV)	<u> </u> (mg/L)	<u> </u> (°C)

FIELD COMMENTS

SAMPLE APPEARANCE good ODOOR solvent COLOR yellow TURBIDITY same
 WEATHER CONDITIONS WIND SPEED 5-10 DIRECTION NE PRECIPITATION Y/N OUTLOOK N
 SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS

10-3-22
DATE

Morgan Brown
PRINT

Morgan Brown
SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

$$PID @ \frac{\text{breathing space}}{\text{space}} = 0.0$$

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling
Ref. No.: 56546.20 T. 4

Date: 9-26-72

Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-10-3

Measurement Point: TOR

Constructed Well Depth (ft): 15.80

Measured Well Depth (ft): 16.39

Depth of Sediment (ft): _____

Screen Length (ft): $8.8 - 15.8 = 7$

Depth to Pump Intake (ft)⁽¹⁾: ~ 13

Well Diameter, D (in): 2

Well Screen Volume, V_s (mL)⁽²⁾: 2.1

Initial Depth to Water (ft): 3.65

[illegible]

Notes:

- (1) The pump intake will be placed at: the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 5-foot screen length, $V_s = p \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- (3) The drawdown from the initial water level should not exceed 0.3 ft.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = V_p/V_s .

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>	
SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-10-3</u>	
WELL PURGING INFORMATION					
<u>09/26/22</u> PURGE DATE (MM DD YY)		<u>09/26/22</u> SAMPLE DATE (MM DD YY)		<u>1121</u> WATER VOL IN CASING (LITRES/GALLONS)	
				<u>107</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT					
PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)			SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE	☒ B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERA/B	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ B	C - SLADDER PUMP	F - DIPPER BOTTLE		X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - POLYPROPYLENE			X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE	☒ E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - ROPE X- _____ (SPECIFY)	TEFLON/POLYPROPYLENE		X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION <u>1610.40</u> (m/ft)		GROUNDWATER ELEVATION <u>1616.75</u> (m/ft)			
DEPTH TO WATER <u>365</u> (m/ft)		WELL DEPTH <u>1639</u> (m/ft)			
pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mv)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mv)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mv)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mv)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mv)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
FIELD COMMENTS					
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>clear</u> WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>SW</u> PRECIPITATION <u>Y/N</u> OUTLOOK <u>Y</u> SPECIFIC COMMENTS <u>MS/MSD collected on 9-26-22</u>					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>9-26-22</u> <u>Maryann Brown</u> <u>[Signature]</u> DATE PRINT SIGNATURE					

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

PID@TOR = 0.0

PID@ ^{breathing} space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10-3-22
 Ref. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: TK-6 Screen Length (ft): _____
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 12
 Constructed Well Depth (ft): _____ Well Diameter, D (in): 4
 Measured Well Depth (ft): 13.23 Well Screen Volume, V_s (mL)⁽²⁾: 0.5
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 10.26

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1450	75	10.35		7.13	18.5	7.588	70.9	3.20	-4.33	0.0	
1455		10.37		7.12	18.6	7.580	71.1	3.11	-4.62	0.1	
1500		10.37		7.10	18.6	7.646	71.9	2.71	-4.31	0.2	
1505		10.38		7.08	18.9	7.732	75.9	2.29	-5.11	0.3	
1510		10.38		7.08	18.9	7.755	76.1	2.28	-5.12	0.4	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- The drawdown from the initial water level should not exceed 0.3 ft.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p / V_s .

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER



APPENDIX B

PREVIOUS ANALYTICAL RESULTS AND GRAPHS

MW-7-1R Groundwater Data

GM Components Holdings, LLC
Lockport, New York

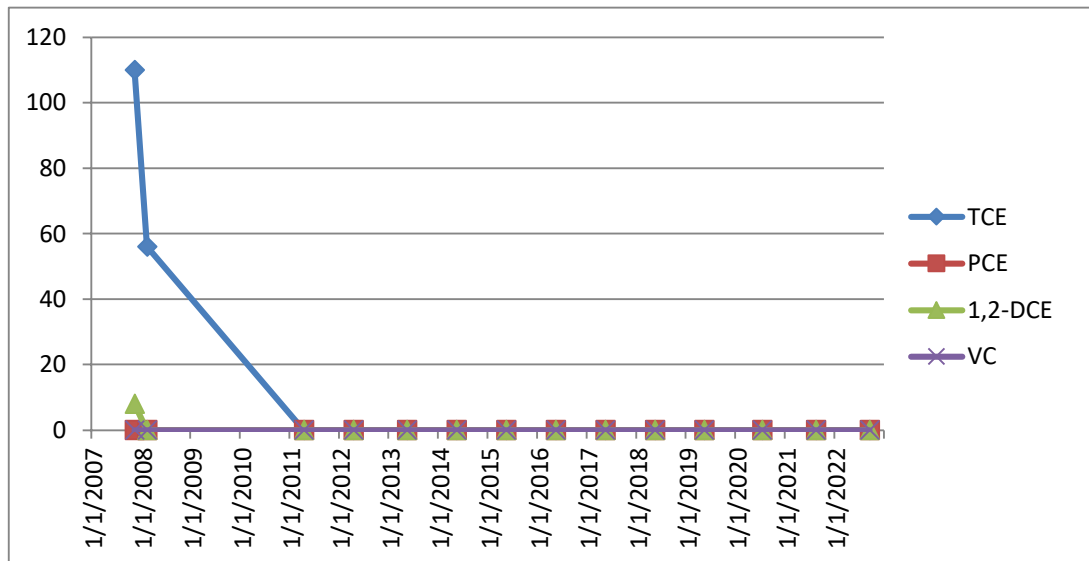
Date	TCE	PCE	1,2-DCE	VC
11/30/2007	110	<	8	<
2/20/2008	56	<	<	<
4/27/2011	<	<	<	<
4/27/2012	<	<	<	<
5/6/2013	<	<	<	<
5/27/2014	<	<	<	<
5/11/2015	<	<	<	<
5/10/2016	<	<	<	<
5/4/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	<	<	<	<
7/2/2020	<	<	<	<
8/23/2021	<	<	<	<
9/22/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

< = non-detect laboratory result



MW-7-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

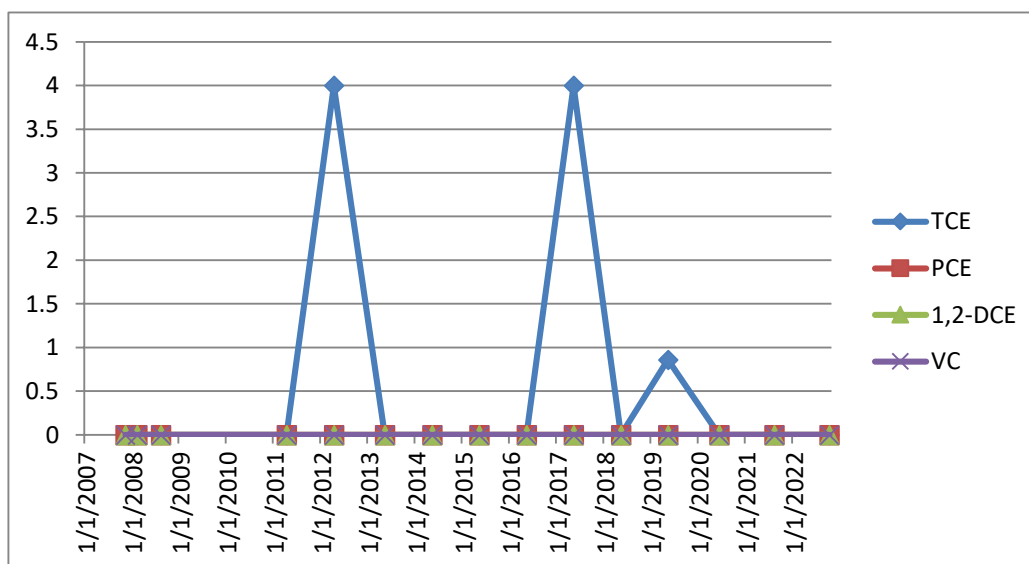
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
8/8/2008	<	<	<	<
4/27/2011	<	<	<	<
4/26/2012	4	<	<	<
5/6/2013	<	<	<	<
5/23/2014	<	<	<	<
5/12/2015	<	<	<	<
5/10/2016	<	<	<	<
5/10/2017	4	<	<	<
5/17/2018	<	<	<	<
5/23/2019	0.86	<	<	<
6/30/2020	<	<	<	<
8/23/2021	<	<	<	<
10/4/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

< = non-detect laboratory result



MW-7-3 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

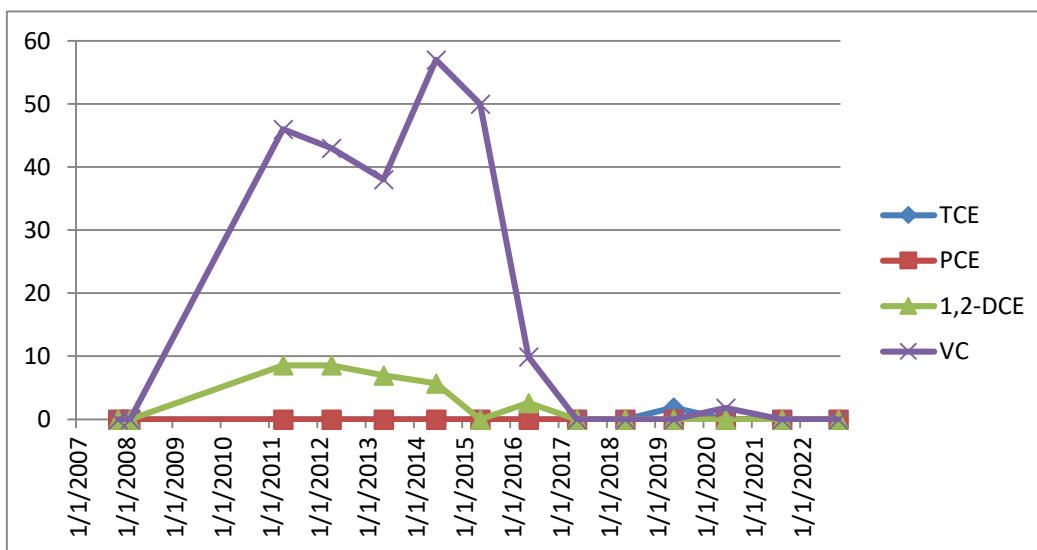
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
4/27/2011	<	<	8.6	46
4/27/2012	<	<	8.6	43
5/6/2013	<	<	7	38
6/3/2014	<	<	5.7	57
5/11/2015	<	<	<	50
5/10/2016	<	<	2.6	9.9
5/3/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	1.9	<	<	<
6/30/2020	<	<	<	1.8
8/23/2021	<	<	<	<
10/5/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

< = non-detect laboratory result



MW-7-4 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

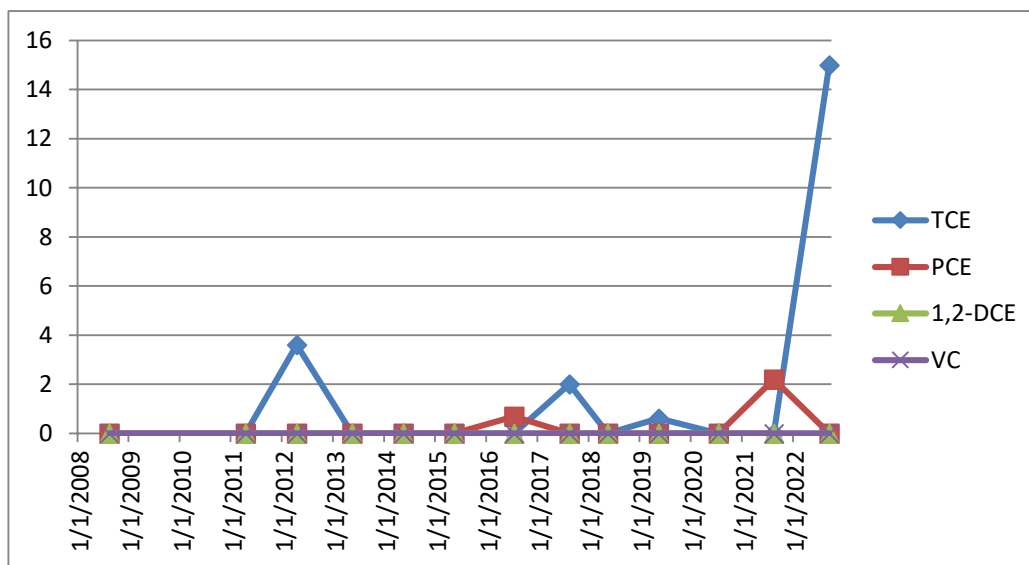
Date	TCE	PCE	1,2-DCE	VC
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/27/2012	3.6	<	<	<
5/7/2013	<	<	<	<
5/23/2014	<	<	<	<
5/11/2015	<	<	<	<
7/29/2016	<	0.69	<	<
8/15/2017	2	<	<	<
5/17/2018	<	<	<	<
5/24/2019	0.61	<	<	<
7/1/2020	<	<	<	<
8/24/2021	<	2.2	<	<
9/22/2022	15	<	<	<

Notes:

Results are provided in parts per billion (ppb)

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

< = non-detect laboratory result



MW-7-5 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

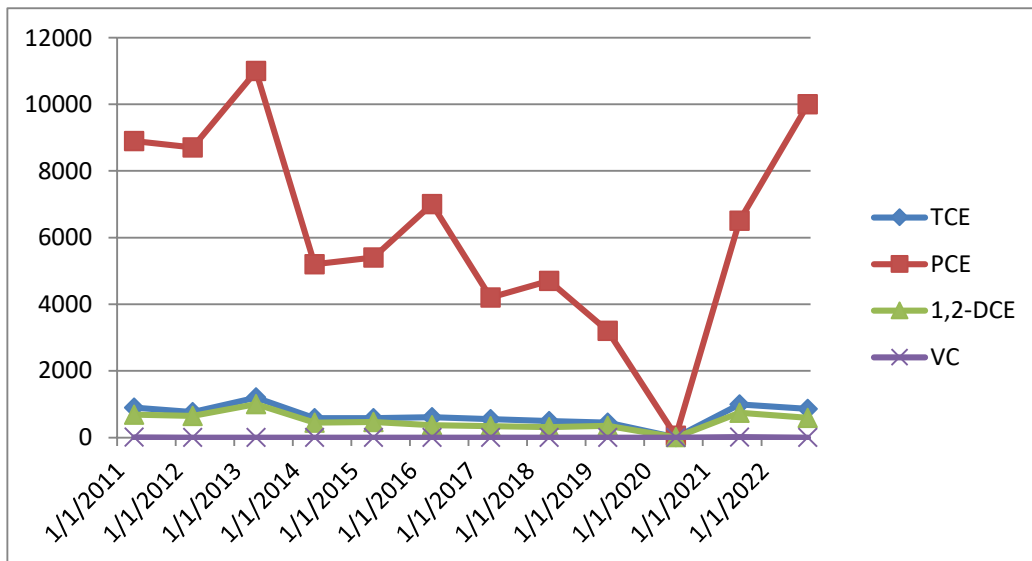
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	890	8900	687	5.8
4/30/2012	760	8700	640	<
5/7/2013	1200	11000	1000	<
5/27/2014	580	5200	440	<
5/18/2015	580	5400	460	<
5/11/2016	610	7000	370	<
5/9/2017	550	4200	340	<
5/30/2018	490	4700	310	<
5/28/2019	440	3200	350	<
7/9/2020	7.4	48	5.6	<
8/23/2021	990	6500	742	5.4
10/5/2022	860	10000	590	ND

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-5 Groundwater Data

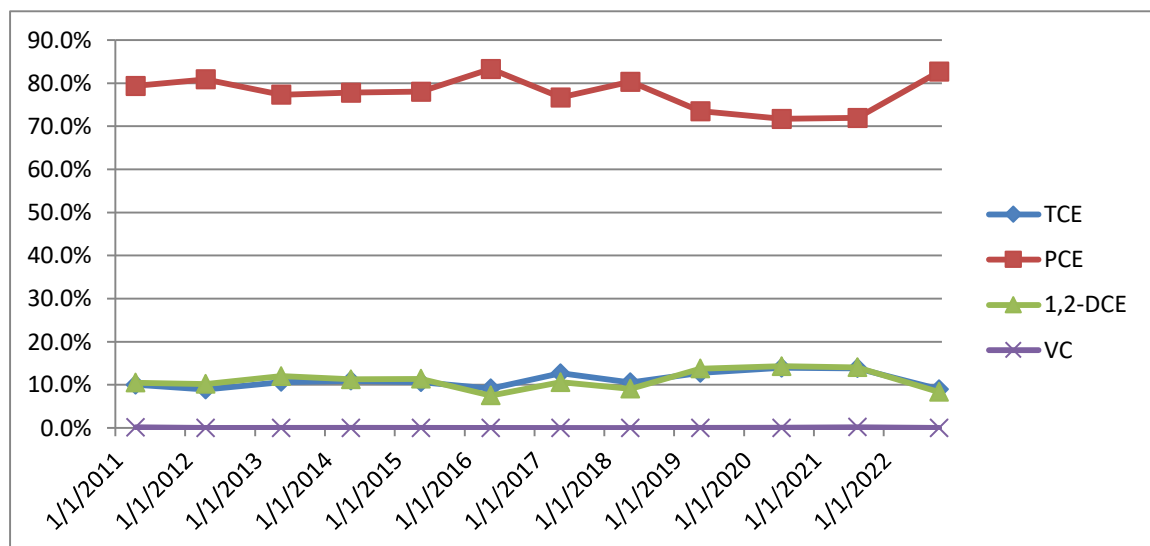
GM Components Holdings, LLC
Lockport, New York

mmol/L					%			
TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
0.006773212	0.053669	0.007089783	0.0000928	0.067625	10.0%	79.4%	10.5%	0.1%
0.005783866	0.052463	0.006604747	0	0.064852	8.9%	80.9%	10.2%	0.0%
0.00913242	0.066333	0.010319917	0	0.085785	10.6%	77.3%	12.0%	0.0%
0.004414003	0.031357	0.004540764	0	0.040312	10.9%	77.8%	11.3%	0.0%
0.004414003	0.032563	0.004747162	0	0.041725	10.6%	78.0%	11.4%	0.0%
0.004642314	0.042212	0.003818369	0	0.050673	9.2%	83.3%	7.5%	0.0%
0.004185693	0.025327	0.003508772	0	0.033022	12.7%	76.7%	10.6%	0.0%
0.003729072	0.028342	0.003199174	0	0.035271	10.6%	80.4%	9.1%	0.0%
0.003348554	0.019297	0.003611971	0	0.026257	12.8%	73.5%	13.8%	0.0%
5.63166E-05	0.000289	5.77915E-05	0	0.000404	14.0%	71.7%	14.3%	0.0%
0.007534247	0.039197	0.007657379	0.0000864	0.054475	13.8%	72.0%	14.1%	0.2%
0.006544901	0.060303	0.006088751	0	0.072936	9.0%	82.7%	8.3%	0.0%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

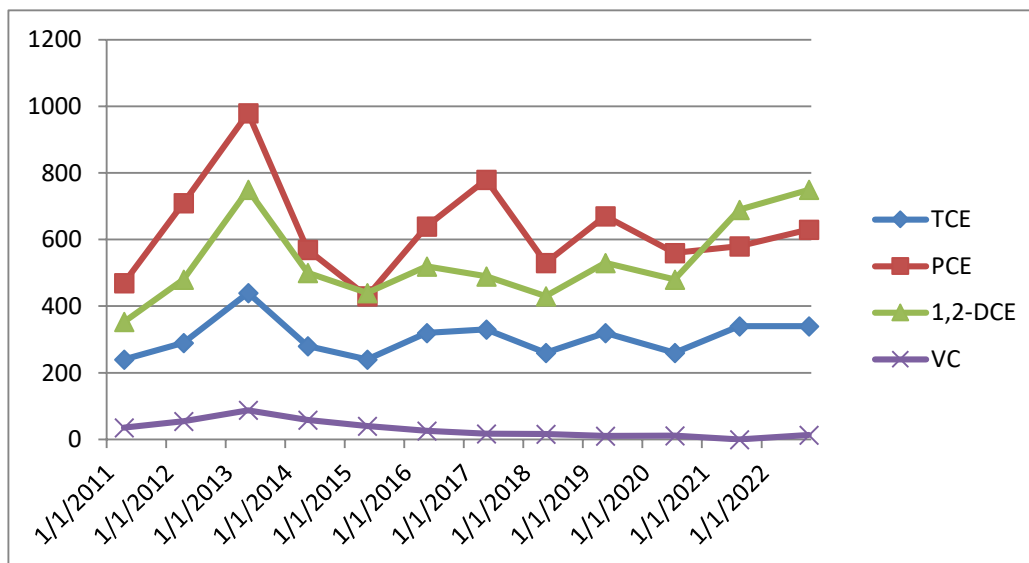
Date	TCE	PCE	1,2-DCE	VC
4/27/2011	240	470	353	35
4/30/2012	290	710	480	55
5/7/2013	440	980	750	88
5/28/2014	280	570	500	58
5/15/2015	240	430	440	40
5/11/2016	320	640	520	26
5/4/2017	330	780	490	17
5/30/2018	260	530	430	16
5/28/2019	320	670	530	10
7/7/2020	260	560	480	11
8/24/2021	340	580	690	<
10/6/2022	340	630	750	13

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

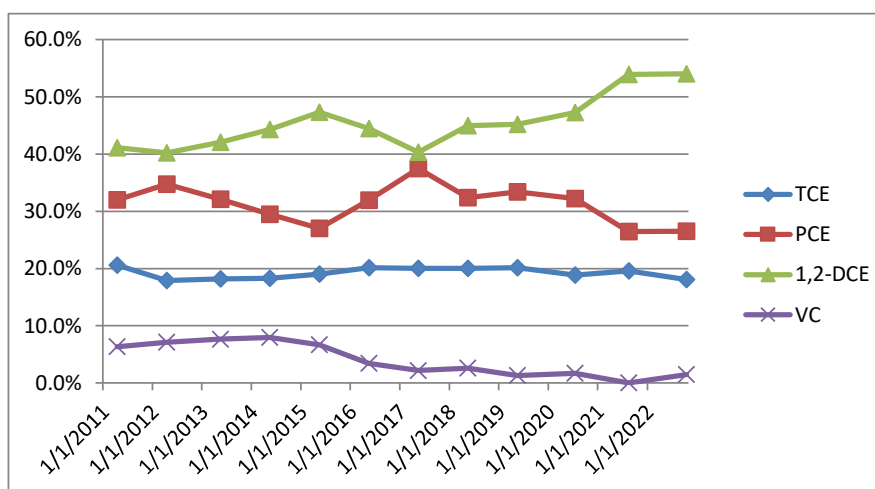


MW-7-6 Groundwater Data									
GM Components Holdings, LLC Lockport, New York									
mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/27/2011	0.001826	0.002834	0.003643	0.00056	0.008864	20.6%	32.0%	41.1%	6.3%
4/30/2012	0.002207	0.004281	0.004954	0.00088	0.012322	17.9%	34.7%	40.2%	7.1%
5/7/2013	0.003349	0.00591	0.00774	0.001408	0.018406	18.2%	32.1%	42.1%	7.6%
5/28/2014	0.002131	0.003437	0.00516	0.000928	0.011656	18.3%	29.5%	44.3%	8.0%
5/15/2015	0.001826	0.002593	0.004541	0.00064	0.0096	19.0%	27.0%	47.3%	6.7%
5/11/2016	0.002435	0.003859	0.005366	0.000416	0.012077	20.2%	32.0%	44.4%	3.4%
5/4/2017	0.002511	0.004704	0.005057	0.000272	0.012544	20.0%	37.5%	40.3%	2.2%
5/30/2018	0.001979	0.003196	0.004438	0.000256	0.009868	20.1%	32.4%	45.0%	2.6%
5/28/2019	0.002435	0.00404	0.00547	0.00016	0.012105	20.1%	33.4%	45.2%	1.3%
7/7/2020	0.001979	0.003377	0.004954	0.000176	0.010485	18.9%	32.2%	47.2%	1.7%
8/24/2021	0.002588	0.003498	0.007121	0	0.013206	19.6%	26.5%	53.9%	0.0%
10/6/2022	0.002588	0.003799	0.00774	0.000208	0.014335	18.1%	26.5%	54.0%	1.5%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-7 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC	Ethene
4/28/2011	<	26,000	<	<	
5/1/2012	2,600	120,000	6,000	960	
5/8/2013	2,300	120,000	4,400	<	
5/29/2014	3,400	76,000	8,700	1,800	
5/12/2015	3,900	70,000	13,000	3,500	290
5/12/2016	7,500	84,000	26,000	4,900	320
5/9/2017	13,000	51,000	61,000	4,900	110
5/18/2018	24,000	23,000	26,000	8,100	380
5/28/2019	19,000	54,000	41,000	6,200	440
7/7/2020	6,800	68,000	54,000	9,600	1300
8/27/2021	5,300	67,000	39,000	8,400	610
10/4/2022	17,000	68,000	36,000	7,200	590

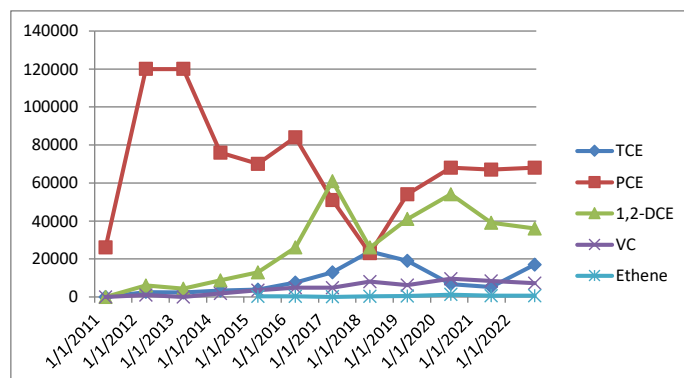
Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

Results are the higher of the sample or its respective duplicate sample.

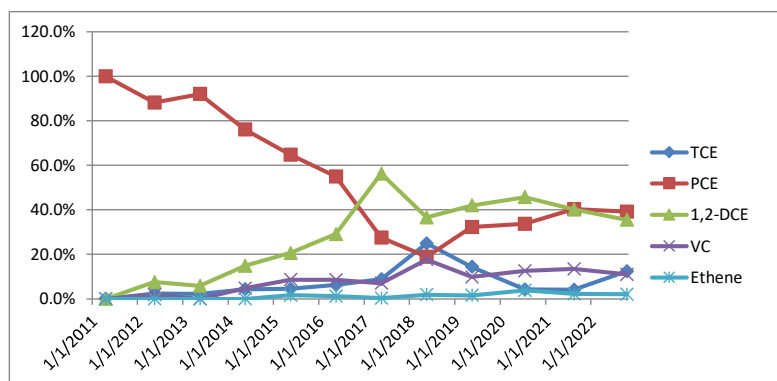


MW-7-7 Groundwater Data											
GM Components Holdings, LLC											
Lockport, New York											
mmol/L						%					
Date	TCE	PCE	1,2-DCE	VC	Ethene	Total	TCE	PCE	1,2-DCE	VC	Ethene
4/28/2011	0	0.156787	0	0		0.156787	0.0%	100.0%	0.0%	0.0%	0.0%
5/1/2012	0.019787	0.723633	0.06192	0.01536		0.820699	2.4%	88.2%	7.5%	1.9%	0.0%
5/8/2013	0.017504	0.723633	0.045408	0		0.786544	2.2%	92.0%	5.8%	0.0%	0.0%
5/29/2014	0.025875	0.458301	0.089783	0.0288		0.602759	4.3%	76.0%	14.9%	4.8%	0.0%
5/12/2015	0.02968	0.422119	0.134159	0.056	0.010339	0.652297	4.6%	64.7%	20.6%	8.6%	1.6%
5/12/2016	0.057078	0.506543	0.268318	0.0784	0.011408	0.921747	6.2%	55.0%	29.1%	8.5%	1.2%
5/9/2017	0.098935	0.307544	0.629515	0.0784	0.003922	1.118315	8.8%	27.5%	56.3%	7.0%	0.4%
5/18/2018	0.182648	0.138696	0.268318	0.1296	0.013547	0.73281	24.9%	18.9%	36.6%	17.7%	1.8%
5/28/2019	0.144597	0.325635	0.423117	0.0992	0.015686	1.008234	14.3%	32.3%	42.0%	9.8%	1.6%
7/7/2020	0.05175	0.410058	0.557276	0.1536	0.046346	1.21903	4.2%	33.6%	45.7%	12.6%	3.8%
8/27/2021	0.040335	0.404028	0.402477	0.1344	0.021747	1.002987	4.0%	40.3%	40.1%	13.4%	2.2%
10/4/2022	0.129376	0.410058	0.371517	0.1152	0.021034	1.047185	12.4%	39.2%	35.5%	11.0%	2.0%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-8 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

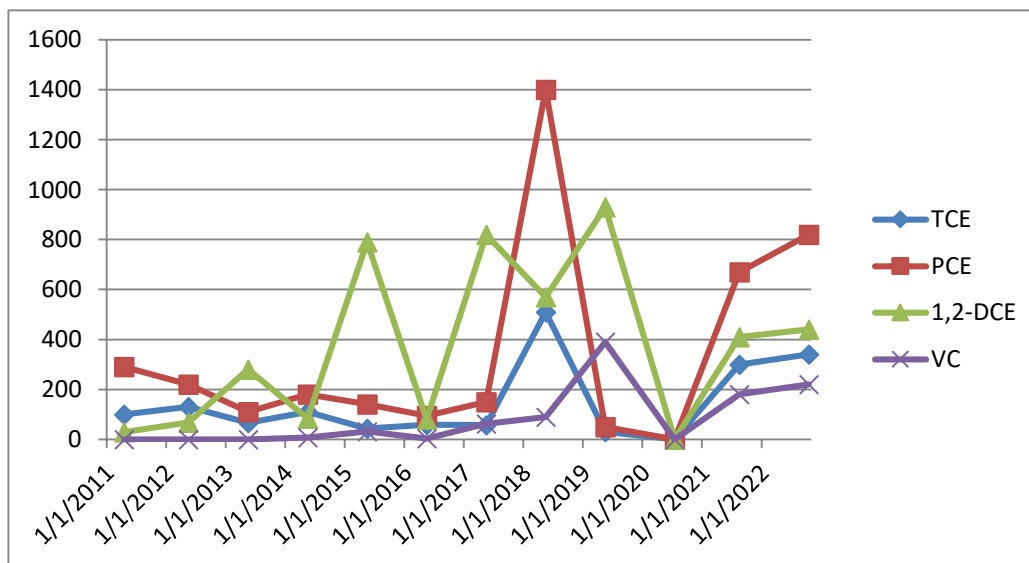
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	100	290	29	<
5/2/2012	130	220	67	<
5/8/2013	66	110	280	<
5/29/2014	110	180	84	7.1
5/18/2015	43	140	790	32
5/13/2016	59	95	81	3.6
5/9/2017	57	150	820	63
5/30/2018	510	1400	570	90
5/31/2019	30	50	930	390
7/9/2020	<	<	<	<
8/27/2021	300	670	410	180
10/7/2022	340	820	440	220

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-8 Groundwater Data

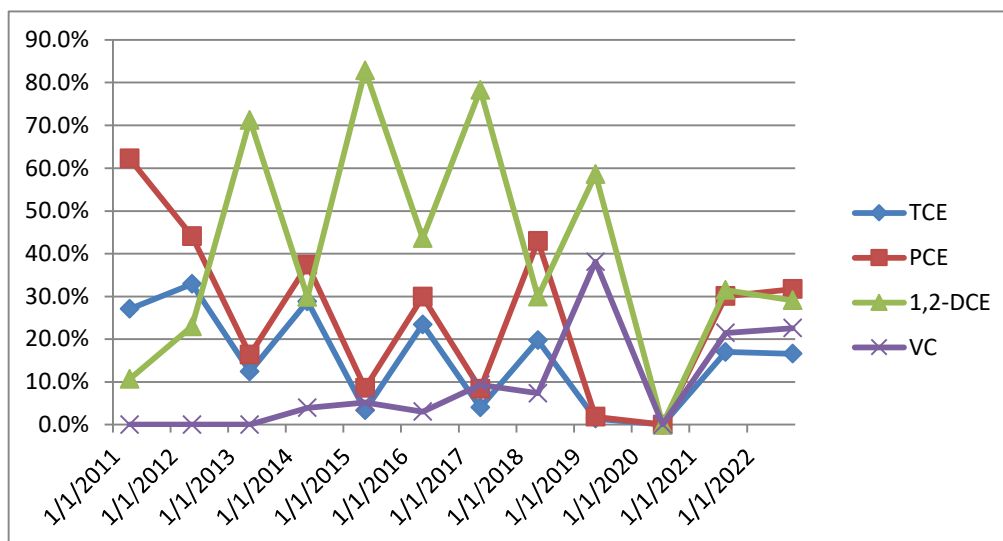
GM Components Holdings, LLC
Lockport, New York

mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/28/2011	0.000761	0.001749	0.000299	0	0.002809	27.1%	62.3%	10.7%	0.0%
5/2/2012	0.000989	0.001327	0.000691	0	0.003007	32.9%	44.1%	23.0%	0.0%
5/8/2013	0.000502	0.000663	0.00289	0	0.004055	12.4%	16.4%	71.3%	0.0%
5/29/2014	0.000837	0.001085	0.000867	0.0001136	0.002903	28.8%	37.4%	29.9%	3.9%
5/18/2015	0.000327	0.000844	0.008153	0.000512	0.009836	3.3%	8.6%	82.9%	5.2%
5/13/2016	0.000449	0.000573	0.000836	0.0000576	0.001915	23.4%	29.9%	43.6%	3.0%
5/9/2017	0.000434	0.000905	0.008462	0.001008	0.010809	4.0%	8.4%	78.3%	9.3%
5/30/2018	0.003881	0.008442	0.005882	0.00144	0.019646	19.8%	43.0%	29.9%	7.3%
5/31/2019	0.000228	0.000302	0.009598	0.00624	0.016367	1.4%	1.8%	58.6%	38.1%
7/9/2020	0	0	0	0	0	0.0%	0.0%	0.0%	0.0%
8/27/2021	0.002283	0.00404	0.004231	0.00288	0.013435	17.0%	30.1%	31.5%	21.4%
10/7/2022	0.002588	0.004945	0.004541	0.00352	0.015593	16.6%	31.7%	29.1%	22.6%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-A-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

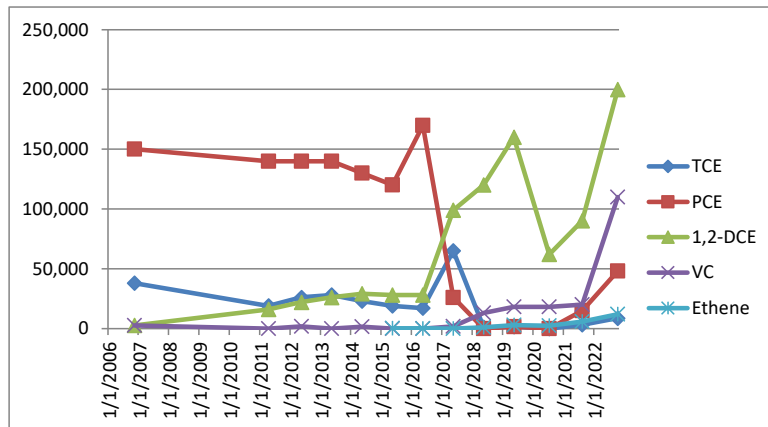
Date	TCE	PCE	1,2-DCE	VC	Ethene
11/10/2006	38,000	150,000	2,600	2,500	
4/28/2011	19,000	140,000	16,000	<	
5/1/2012	26,000	140,000	22,000	1,800	
5/8/2013	28,000	140,000	26,000	<	
5/30/2014	23,000	130,000	29,000	1,500	
5/15/2015	19,000	120,000	28,000	<	79
5/12/2016	17,000	170,000	28,000	<	45
5/9/2017	65,000	26,000	99,000	1,800	<30
5/18/2018	1,100	<	120,000	13,000	1,100
5/28/2019	1,500	1,400	160,000	18,000	2,800
7/7/2020	<	<	62,000	18,000	2,300
8/27/2021	3,200	15,000	90,000	20,000	5,700
10/5/2022	8,600	48,000	200,000	110,000	12,000

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

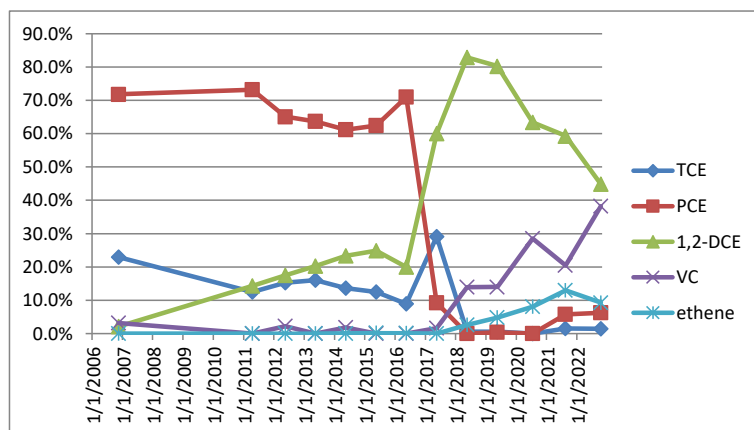


MW-7-A-6 Groundwater Data											
GM Components Holdings, LLC Lockport, New York											
mmol/L							%				
Date	TCE	PCE	1,2-DCE	VC	ethene	total	TCE	PCE	1,2-DCE	VC	ethene
11/10/2006	0.289193	0.904541	0.026832	0.04		1.260566	22.9%	71.8%	2.1%	3.2%	0.0%
4/28/2011	0.144597	0.844238	0.165119	0		1.153953	12.5%	73.2%	14.3%	0.0%	0.0%
5/1/2012	0.197869	0.844238	0.227038	0.0288		1.297945	15.2%	65.0%	17.5%	2.2%	0.0%
5/8/2013	0.21309	0.844238	0.268318	0		1.325646	16.1%	63.7%	20.2%	0.0%	0.0%
5/30/2014	0.175038	0.783935	0.299278	0.024	0	1.282251	13.7%	61.1%	23.3%	1.9%	0.0%
5/15/2015	0.144597	0.723633	0.288958	0	0.002816	1.160003	12.5%	62.4%	24.9%	0.0%	0.2%
5/12/2016	0.129376	1.025146	0.288958	0	0.001604	1.445084	9.0%	70.9%	20.0%	0.0%	0.1%
5/9/2017	0.494673	0.156787	1.021672	0.0288	0	1.701932	29.1%	9.2%	60.0%	1.7%	0.0%
5/18/2018	0.008371	0	1.23839	0.208	0.039216	1.493977	0.6%	0.0%	82.9%	13.9%	2.6%
5/28/2019	0.011416	0.008442	1.651187	0.288	0.099822	2.058866	0.6%	0.4%	80.2%	14.0%	4.8%
7/7/2020	0	0	0.639835	0.288	0.081996	1.009831	0.0%	0.0%	63.4%	28.5%	8.1%
8/27/2021	0.024353	0.090454	0.928793	0.32	0.203209	1.566808	1.6%	5.8%	59.3%	20.4%	13.0%
10/5/2022	0.065449	0.289453	2.063983	1.76	0.427807	4.606693	1.4%	6.3%	44.8%	38.2%	9.3%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-C-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

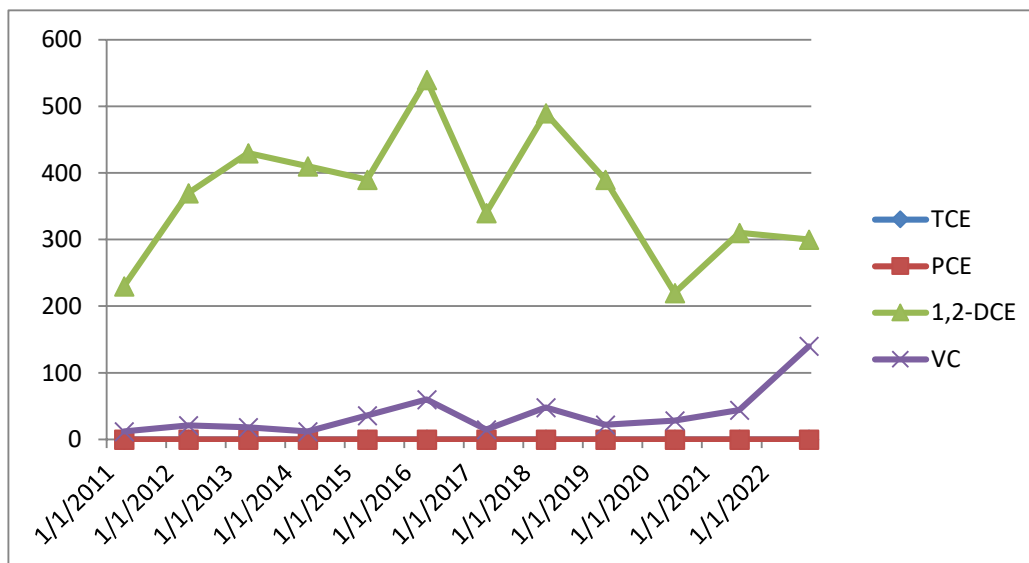
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	230	12
5/3/2012	<	<	370	21
5/7/2013	<	<	430	18
5/28/2014	<	<	410	12
5/15/2015	<	<	390	36
5/11/2016	<	<	540	60
5/4/2017	<	<	340	15
5/30/2018	<	<	490	48
5/28/2019	<	<	390	22
7/9/2020	<	<	220	28
8/25/2021	<	<	310	44
10/4/2022	<	<	300	140

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-7-C-2 Groundwater Data

GM Components Holdings, LLC

Lockport, New York

mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/29/2011	0	0	0.002374	0.000192	0.002566	0.0%	0.0%	92.5%	7.5%
5/3/2012	0	0	0.003818	0.000336	0.004154	0.0%	0.0%	91.9%	8.1%
5/7/2013	0	0	0.004438	0.000288	0.004726	0.0%	0.0%	93.9%	6.1%
5/28/2014	0	0	0.004231	0.000192	0.004423	0.0%	0.0%	95.7%	4.3%
5/15/2015	0	0	0.004025	0.000576	0.004601	0.0%	0.0%	87.5%	12.5%
5/11/2016	0	0	0.005573	0.00096	0.006533	0.0%	0.0%	85.3%	14.7%
5/4/2017	0	0	0.003509	0.00024	0.003749	0.0%	0.0%	93.6%	6.4%
5/30/2018	0	0	0.005057	0.000768	0.005825	0.0%	0.0%	86.8%	13.2%
5/28/2019	0	0	0.004025	0.000352	0.004377	0.0%	0.0%	92.0%	8.0%
7/9/2020	0	0	0.00227	0.000448	0.002718	0.0%	0.0%	83.5%	16.5%
8/25/2021	0	0	0.003199	0.000704	0.003903	0.0%	0.0%	82.0%	18.0%
10/4/2022	0	0	0.003096	0.00224	0.005336	0.0%	0.0%	58.0%	42.0%

Notes:

Results are provided in mmol/L and molar fractions

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.

MW-7-P-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

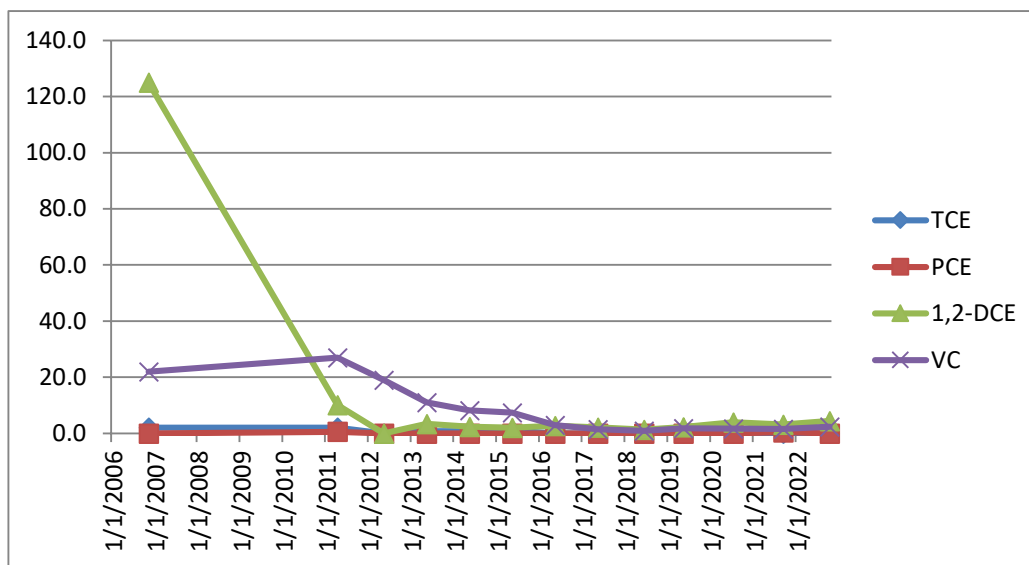
Date	TCE	PCE	1,2-DCE	VC
11/14/2006	2.1	<	125	22
4/29/2011	2	0.6	10	27
5/3/2012	<	<	<	19
5/7/2013	0.74	<	3.4	11
5/16/2014	0.78	<	2.4	8.2
5/26/2015	0.93	<	2	7.4
5/13/2016	<	<	2.7	2.9
5/5/2017	<	<	2.1	1.4
6/1/2018	<	<	1.3	0.91
5/31/2019	<	<	2.2	1.8
7/13/2020	<	<	4	1.7
9/1/2021	<	0.46	3.2	1.6
10/6/2022	<	<	4.4	2.3

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-6-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

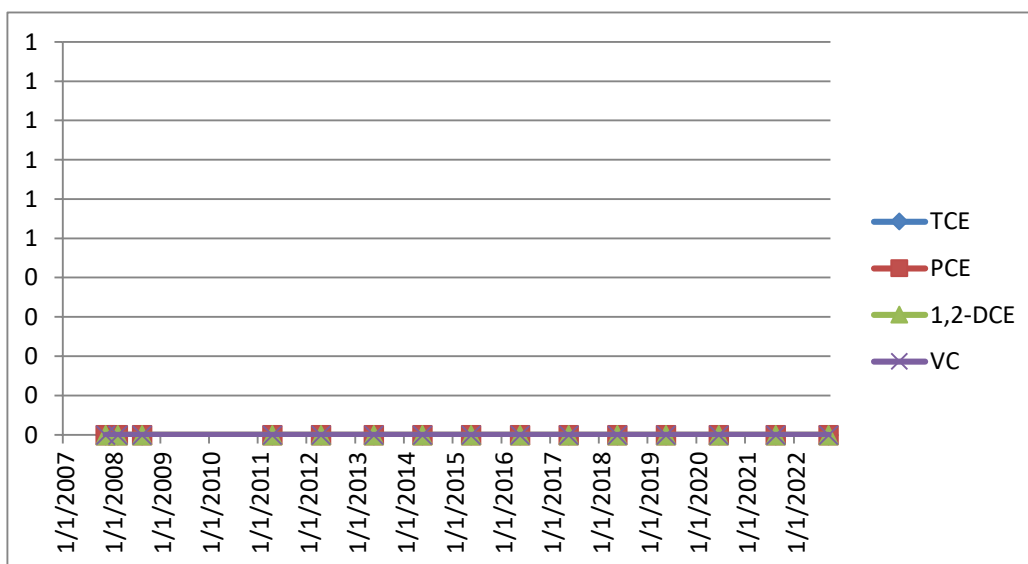
Date	TCE	PCE	1,2-DCE	VC
11/30/2007	<	<	<	<
2/20/2008	<	<	<	<
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/14/2014	<	<	<	<
5/13/2015	<	<	<	<
5/9/2016	<	<	<	<
5/3/2017	<	<	<	<
5/16/2018	<	<	<	<
5/21/2019	<	<	<	<
6/29/2020	<	<	<	<
8/24/2021	<	<	<	<
9/29/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-6-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

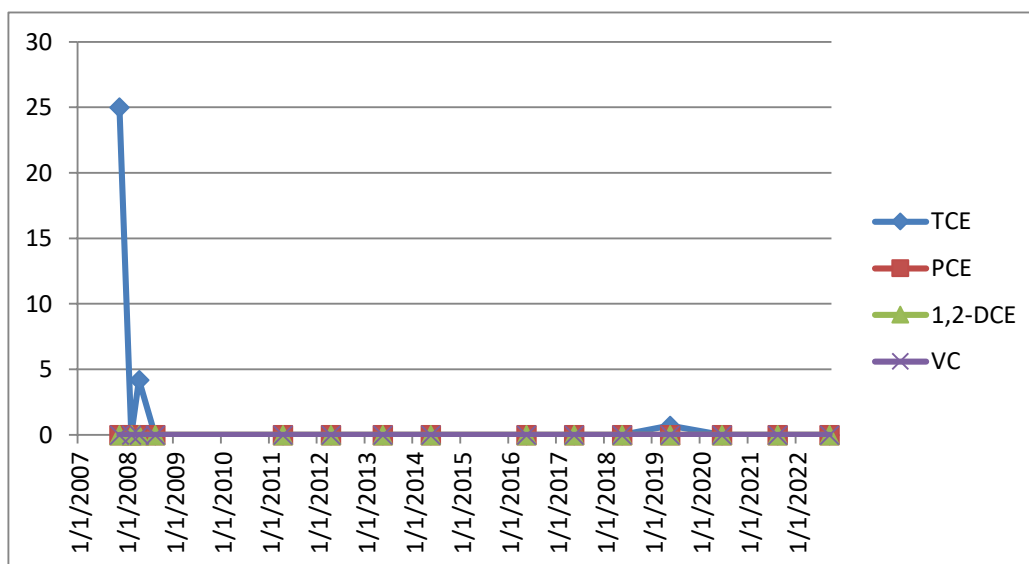
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	25	<	<	<
2/20/2008	<	<	<	<
4/15/2008	4.2	<	<	<
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/14/2014	<	<	<	<
5/9/2016	<	<	<	<
5/3/2017	<	<	<	<
5/16/2018	<	<	<	<
5/21/2019	0.7	<	<	<
6/26/2020	<	<	<	<
8/24/2021	<	<	<	<
9/29/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-6-F-8 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

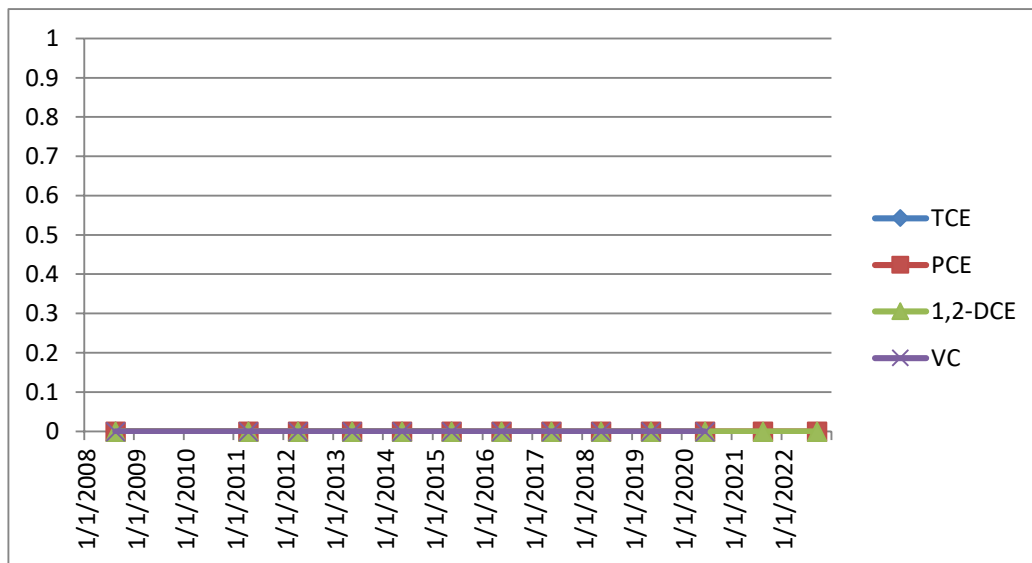
Date	TCE	PCE	1,2-DCE	VC
8/13/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/30/2014	<	<	<	<
5/14/2015	<	<	<	<
5/9/2016	<	<	<	<
5/1/2017	<	<	<	<
5/16/2018	<	<	<	<
5/14/2019	<	<	<	<
6/29/2020	<	<	<	<
8/26/2021	<	<	<	<
9/29/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-8-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

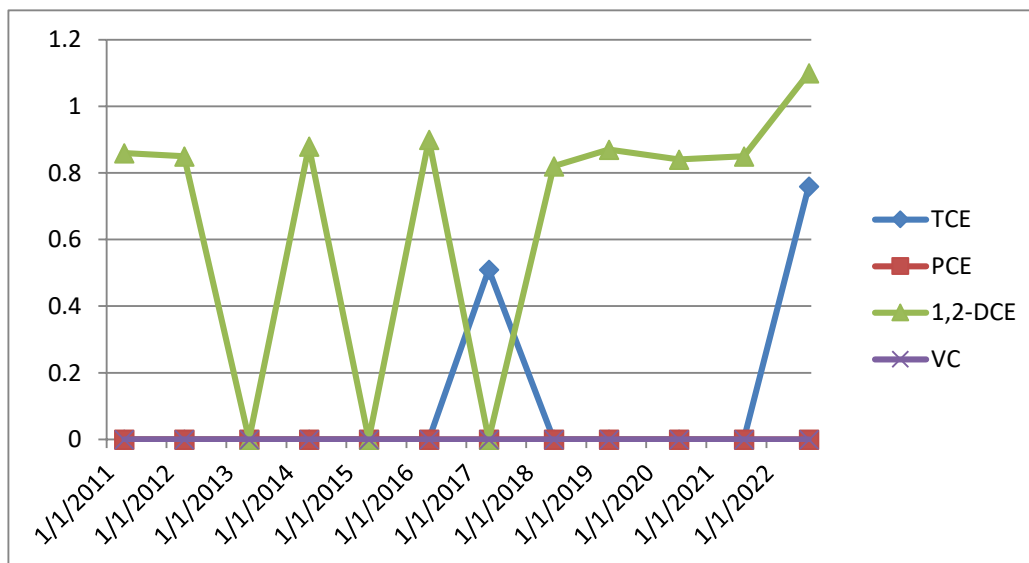
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	0.86	<
4/30/2012	<	<	0.85	<
5/13/2013	<	<	<	<
5/15/2014	<	<	0.88	<
5/22/2015	<	<	<	<
5/16/2016	<	<	0.9	<
5/2/2017	0.51	<	<	<
6/1/2018	<	<	0.82	<
5/30/2019	<	<	0.87	<
7/10/2020	<	<	0.84	<
8/30/2021	<	<	0.85	<
9/27/2022	0.76	<	1.1	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-8-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

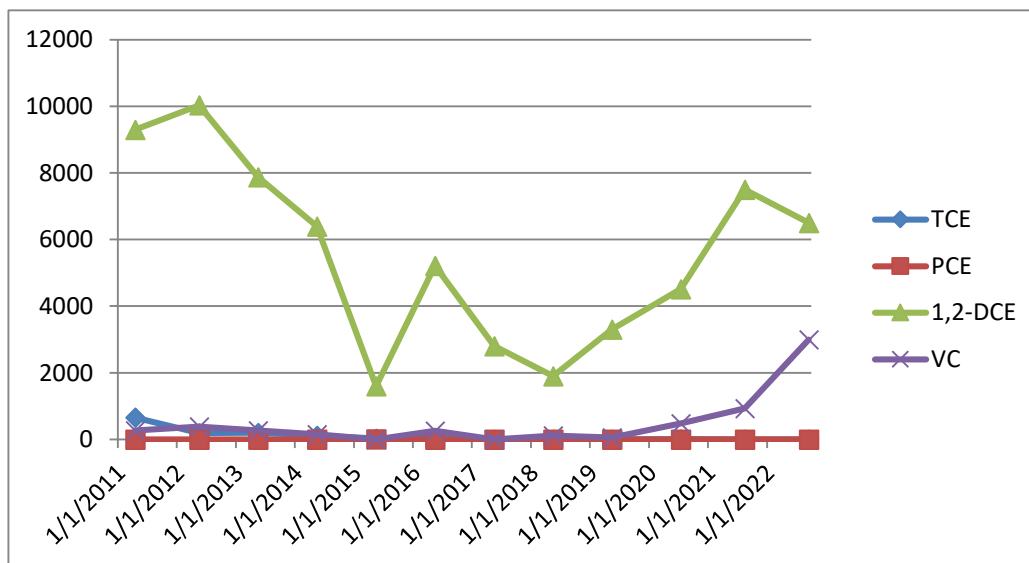
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	660	<	9,300	270
5/3/2012	190	<	10,034	380
5/13/2013	200	<	7,877	270
5/16/2014	110	<	6400	150
5/22/2015	24	10	1,600	<
5/17/2016	47	<	5,216	260
5/2/2017	<	<	2,800	<
5/10/2018	<	<	1,900	110
5/30/2019	<	<	3,300	58
7/10/2020	11	<	4,512	480
8/30/2021	<	<	7,500	930
9/27/2022	<	<	6,500	3000

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-8-3 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
5/2/2011	9.3	1.9	5	<
5/1/2012	5.9	0.84	5.3	<
5/14/2013	0.78	0.49	3	<
5/16/2014	<	<	2.2	<
5/21/2015	<	<	1.8	<
5/18/2016	3.9	<	3.4	<
5/2/2017	<	<	1.9	<
5/11/2018	2.8	<	3.7	<
5/31/2019	1	0.91	48	12
7/10/2020	<	<	<	<
8/30/2021	1.3	<	6.2	14
9/28/2022	2.8	<	9.3	25

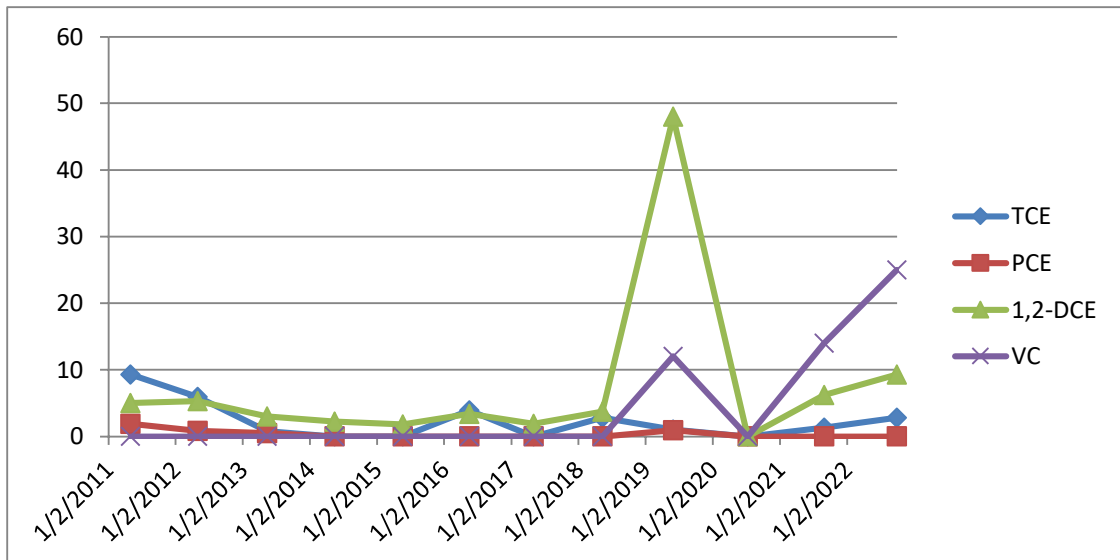
Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

Results from 5/2/2011 are the higher of the sample or its respective duplicate sample.

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-8-4 Groundwater Data
Building 8 BCP Site
GM Components Holdings, LLC
Lockport, New York

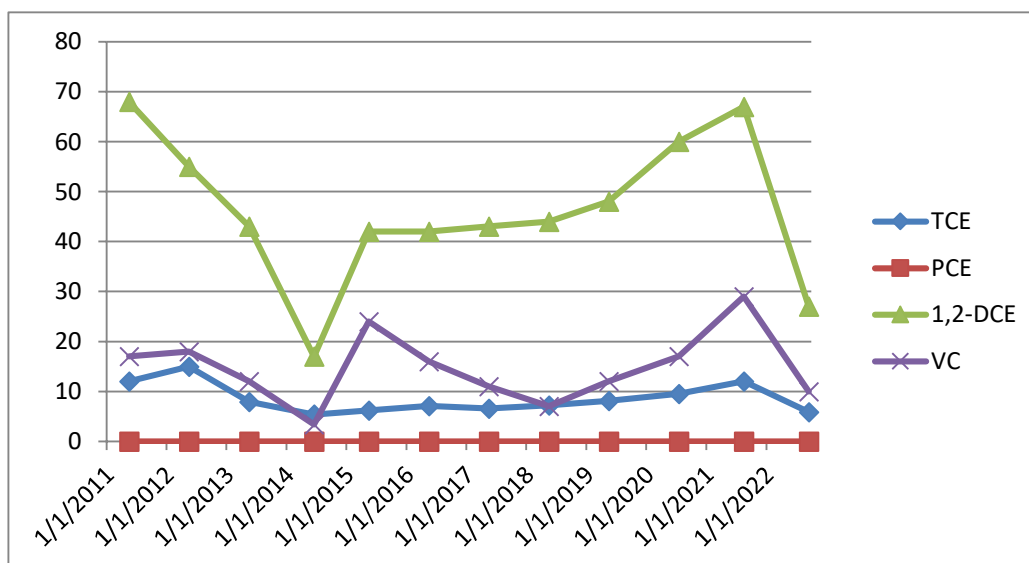
Date	TCE	PCE	1,2-DCE	VC
5/2/2011	12	<	68	17
5/1/2012	15	<	55	18
5/13/2013	7.9	<	43	12
6/2/2014	5.4	<	17	3.4
5/12/2015	6.2	<	42	24
5/9/2016	7.1	<	42	16
5/1/2017	6.6	<	43	11
5/11/2018	7.2	<	44	7
5/14/2019	8.1	<	48	12
7/2/2020	9.5	<	60	17
8/25/2021	12	<	67	29
9/28/2022	5.9	<	27	10

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-8-003-B Groundwater Data

GM Components Holdings, LLC
Lockport, New York

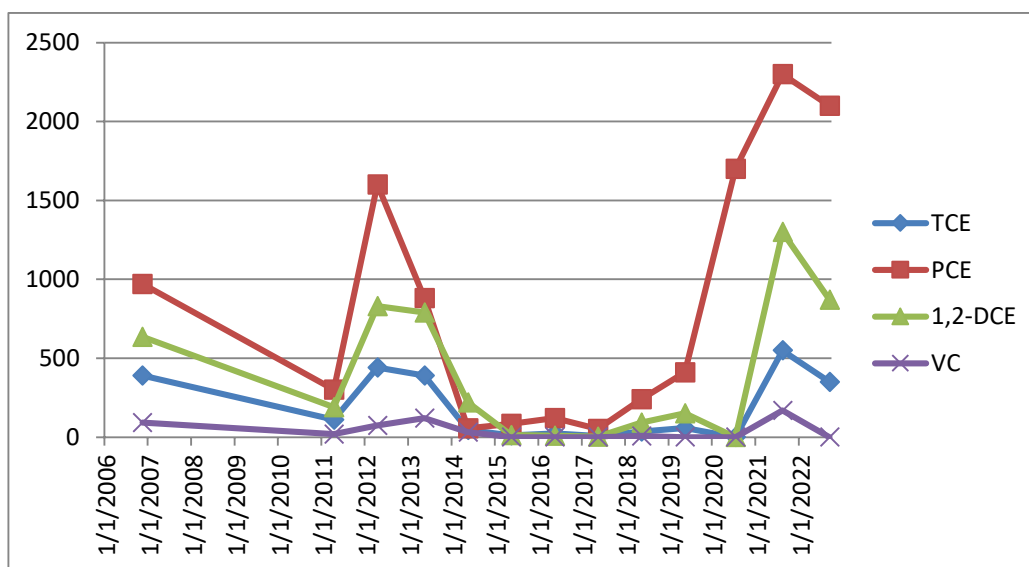
Date	TCE	PCE	1,2-DCE	VC
11/11/2006	390	970	635	91
4/28/2011	110	300	190	19
4/30/2012	440	1,600	830	73
5/10/2013	390	880	790	120
5/29/2014	46	55	220	31
5/14/2015	10	83	12	<
5/16/2016	23	120	9.2	<
5/4/2017	7.7	52	2.6	<
5/30/2018	35	240	92	7.3
5/29/2019	58	410	150	<
7/10/2020	<	1700	<	<
8/26/2021	550	2300	1300	170
9/28/2022	350	2100	870	ND

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-9-101A Groundwater Data

GM Components Holdings, LLC
Lockport, New York

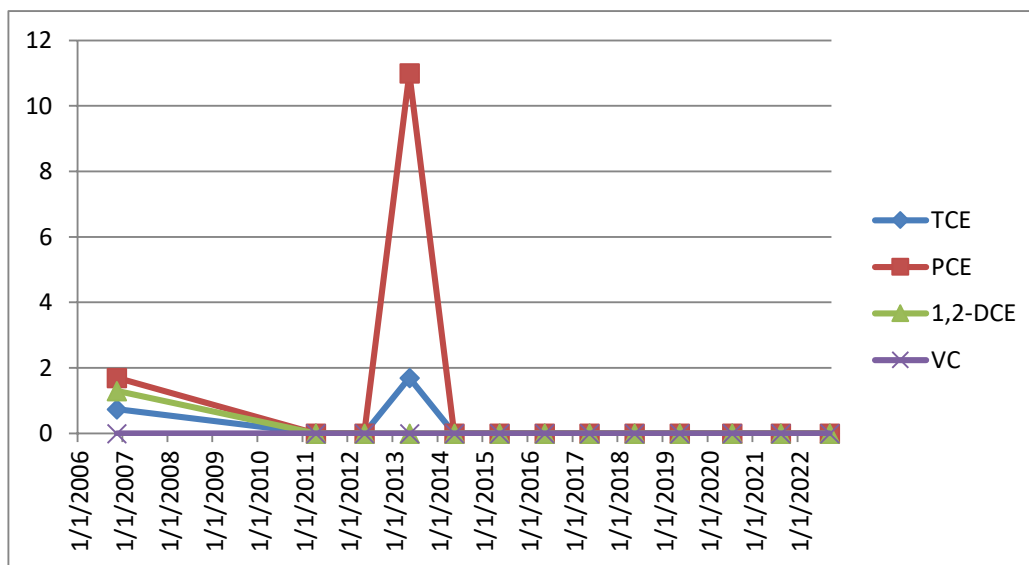
Date	TCE	PCE	1,2-DCE	VC
11/10/2006	0.74	1.7	1.3	<
4/28/2011	<	<	<	<
5/3/2012	<	<	<	<
5/13/2013	1.7	11	<	<
5/22/2014	<	<	<	<
5/21/2015	<	<	<	<
5/18/2016	<	<	<	<
5/5/2017	<	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/13/2020	<	<	<	<
8/31/2021	<	<	<	<
9/26/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-9-12 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

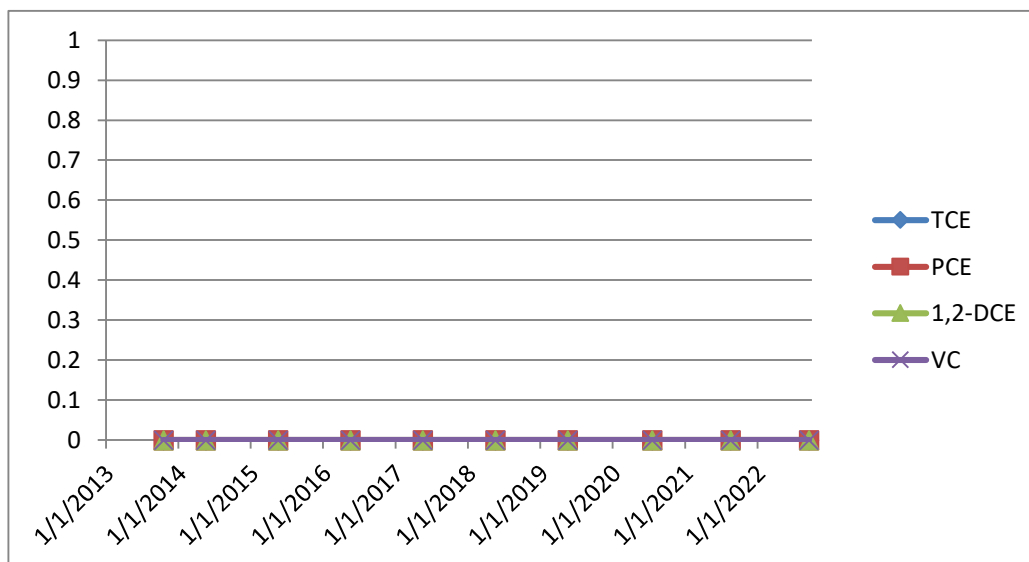
Date	TCE	PCE	1,2-DCE	VC
10/1/2013	<	<	<	<
5/21/2014	<	<	<	<
5/21/2015	<	<	<	<
5/19/2016	<	<	<	<
5/5/2017	<	<	<	<
5/31/2018	<	<	<	<
5/30/2019	<	<	<	<
7/13/2020	<	<	<	<
8/31/2021	<	<	<	<
9/26/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



TK-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

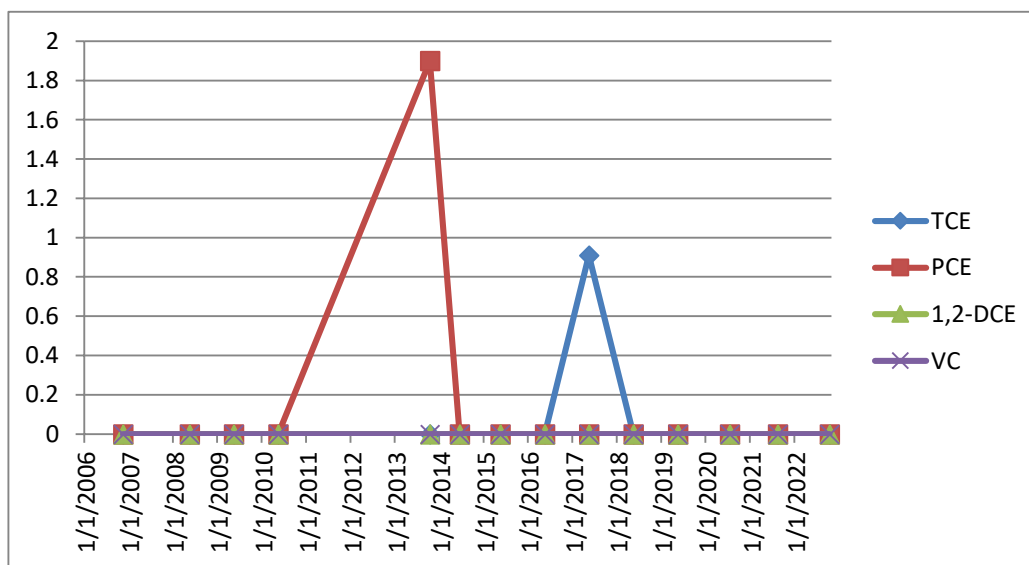
Date	TCE	PCE	1,2-DCE	VC
11/8/2006	<	<	<	<
5/6/2008	<	<	<	<
5/6/2009	<	<	<	<
5/7/2010	<	<	<	<
10/7/2013	<	1.9	<	<
6/2/2014	<	<	<	<
5/20/2015	<	<	<	<
5/19/2016	<	<	<	<
5/10/2017	0.91	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/6/2020	<	<	<	<
8/30/2021	<	<	<	<
10/3/2022	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



Bldg 10-MW-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

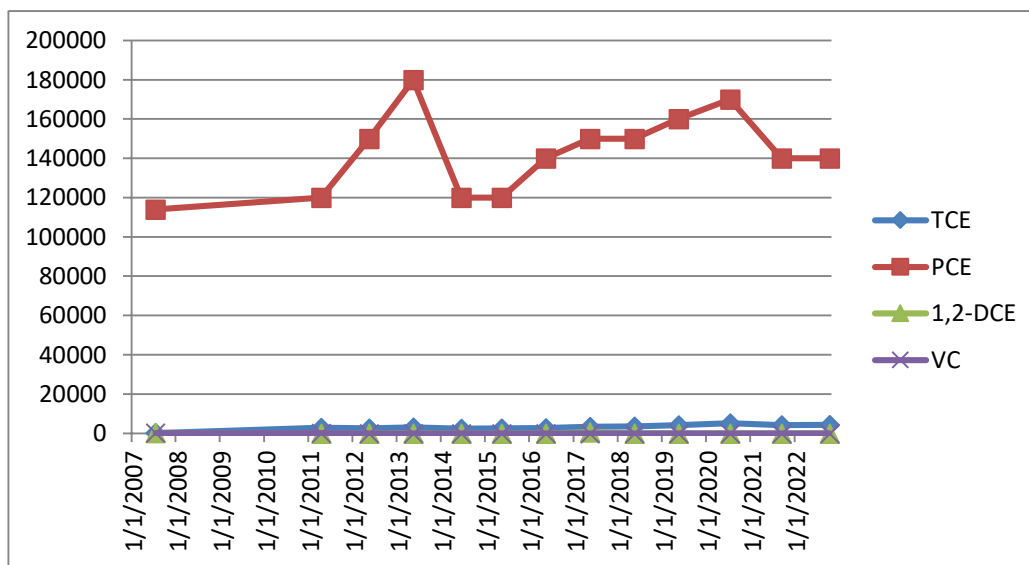
Date	TCE	PCE	1,2-DCE	VC
7/18/2007	200	114,000	235	220
4/29/2011	2,800	120,000	16	100
5/2/2012	2,500	150,000	<	<
5/9/2013	3,000	180,000	<	<
6/3/2014	2300	120000	<	<
5/26/2015	2,600	120,000	<	<
5/19/2016	2,700	140,000	<	<
5/10/2017	3,400	150,000	630	<
5/31/2018	3,600	150,000	<	<
5/31/2019	4,100	160,000	<	<
7/13/2020	5,200	170,000	<	<
9/1/2021	4,100	140,000	<	<
10/3/2022	4,300	140,000	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-10-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

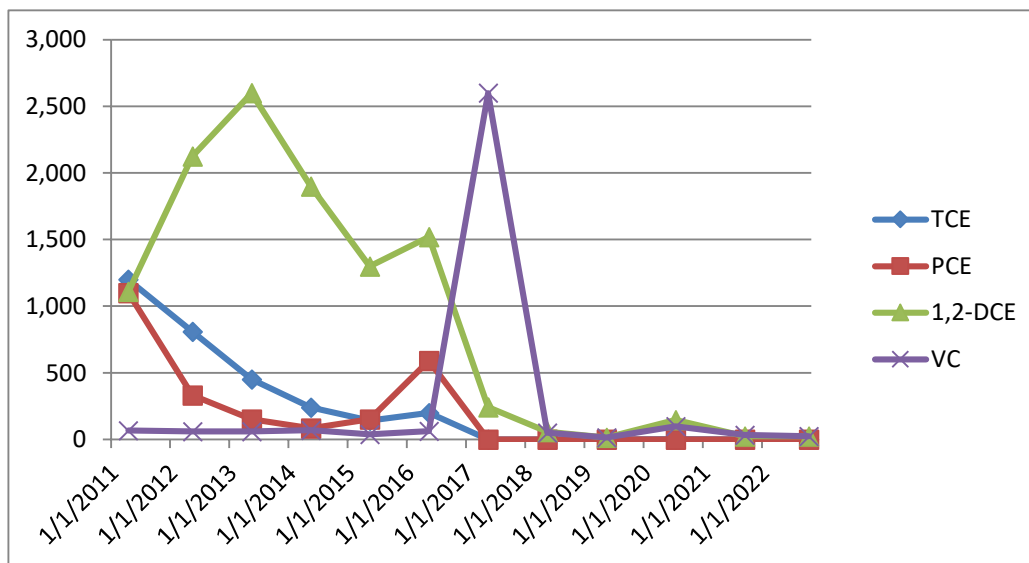
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	1,200	1,100	1,110	66
5/2/2012	810	330	2,126	60
5/9/2013	450	150	2,600	60
5/22/2014	240	83	1900	70
5/19/2015	140	150	1,300	38
5/17/2016	200	590	1,520	62
5/8/2017	<	<	241	2600
5/30/2018	<	<	57	49
5/29/2019	<	<	15	15
7/6/2020	1	<	146.5	98
9/1/2021	<	<	23.6	33
10/3/2022	0.65	<	22.6	23

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.



MW-10-3 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
4/29/2011	6	13	11	<
5/2/2012	7	14	14	<
5/9/2013	24	24	38	1.4
5/22/2014	9	14	11	<
5/20/2015	7.2	13	10	<
5/18/2016	3	3.4	7.2	<
5/8/2017	3.8	2.4	3.7	<
5/18/2018	2.9	2	2.1	<
5/29/2019	4.5	3.1	3.6	<
7/6/2020	3.5	3	1.2	<
8/27/2021	12	13	12	<
9/26/2022	4.5	2.9	1	<

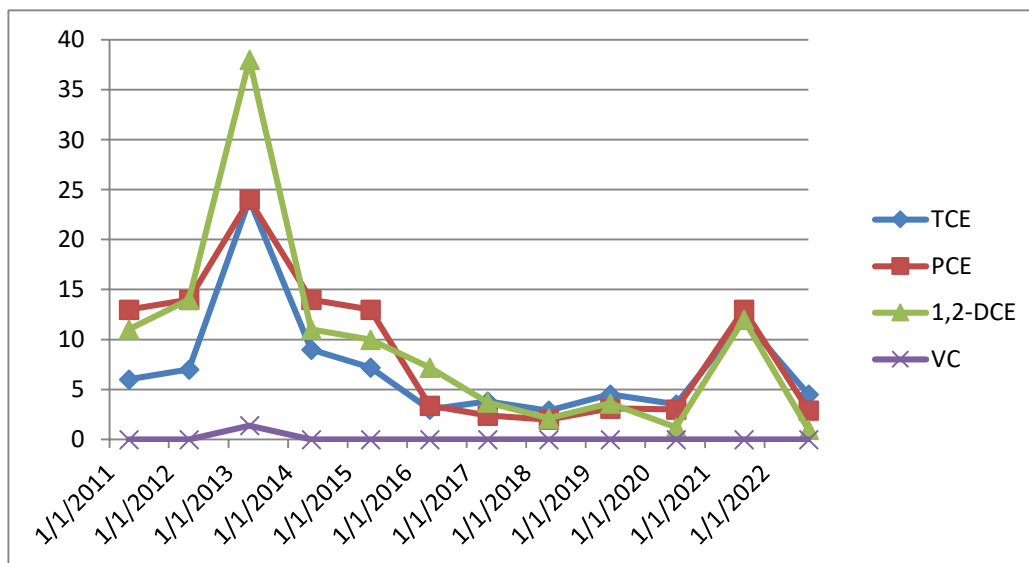
Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

Results on 4/29/2011 are the higher of the sample or its respective duplicate sample.

1,2 DCE value includes total cis-1,2 DCE and trans 1,2 DCE.





APPENDIX C

DATA QUALITY ASSESSMENT AND VERIFICATION REPORT

Technical Memorandum

December 5, 2022

To	Denis Conley [dconley@haleyaldrich.com]	Tel	513-285-1102
Copy to	Claire Mondello [cmondello@haleyaldrich.com] Tom Bohlen [Thomas.bohlen@gza.com] Kathy Willy	Email	Angela.Bown@ghd.com
From	Angela Bown/cs/319-NF	Ref. No.	058507-256043
Subject	Analytical Results and Reduced Validation Annual Groundwater Monitoring GM Components Holdings–BCP Sites Lockport, New York September and October 2022		

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Annual Groundwater Monitoring at the GM Components Holdings-BCP Sites during September and October 2022. Samples were submitted to Eurofins Buffalo located in Amherst, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS) and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA 542-R-20-006, November 2020.
- ii) "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540-R-20-005, November 2020.

These items will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. Most samples were prepared and analyzed within the required holding times. Table 4 presents the sample results that were qualified or rejected due to holding time exceedances.

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

3. Laboratory Method Blank Analyses

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

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of alkalinity, ammonia, and manganese. Table 5 presents the sample results that were qualified due to analytes concentrations in the method blanks.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compounds (VOC) and polynuclear aromatic hydrocarbons (PAH) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of PAH analyses. For PAH analyses, it is generally acceptable for there to be one outlying surrogate in the base/neutral fraction provided that the recovery is at least 10 percent.

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

5. Laboratory Control Sample Analyses

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

High LCS recoveries and/or RPDs do not impact any associated non-detect sample results.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

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

Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory control limits. All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision, where applicable.

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

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

If the original sample concentration is significantly greater than the spike concentration (>four times), the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to necessary sample dilutions of five times and greater for extractable parameters, some MS/MSD recoveries could not be assessed.

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

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the exception of tetrachloroethene. Table 6 presents the qualified sample result.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated per the "Guidelines" using the laboratory limits. All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of the qualified sample results presented in Table 6.

7. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. For this study, MS samples were prepared and analyzed by the laboratory as specified in Table 1.

The MS results were evaluated per the "Guidelines" using the laboratory limits. In accordance with the "Guidelines", MS recoveries for samples with analyte concentrations significantly greater than the spike concentrations (>four times) could not be assessed.

Most MS analyses performed were acceptable, demonstrating acceptable analytical accuracy. Table 7 presents the sample results that were qualified due to outlying MS recoveries.

8. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory for inorganic analyses as specified in Table 1. The duplicate results were evaluated per the "Guidelines" using the laboratory limits.

All duplicate analyses met the above criteria demonstrating acceptable analytical precision.

9. Field QA/QC Samples

The field QA/QC consisted of nine trip blank samples and two field duplicate sample sets.

Trip Blank Sample Analysis

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

Field Duplicate Sample Analysis

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

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

10. Sample Quantitation

Carbon dioxide was detected above the calibration range in the dissolved gas analysis of sample MW-7-A-6-100522. The sample result was qualified as estimated in Table 8.

11. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum.

Non-detect results were presented as non-detect at the RL in Table 2.

12. Conclusion

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

Regards,



Angela Bown
Data Management Team Lead-Data Validator

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
					Select VOC	PAH	Dissolved Gases	Select Metals	Chloride, Sulfate	Ammonia	Nitrate, Nitrite	TOC	Alkalinity	Sulfide	
MW-7-1-092222	MW-7-1	Water	09/22/2022	12:05	X		X	X	X	X	X	X	X	X	MS/DUP
MW-7-4-092222	MW-7-4	Water	09/22/2022	16:30	X		X	X	X	X	X	X	X	X	MS/MSD
Trip Blank-092222	-	Water	09/22/2022	-	X										Trip Blank
MW-9-12-092622	MW-9-12	Water	09/26/2022	14:05	X	X	X	X	X	X	X	X	X	X	
MW-9-101-A-092622	MW-9-101-A	Water	09/26/2022	09:15	X	X	X	X	X	X	X	X	X	X	
MW-10-3-092622	MW-10-3	Water	09/26/2022	11:17	X		X	X	X	X	X	X	X	X	MS/MSD
MW-8-1-092722	MW-8-1	Water	09/27/2022	14:29	X		X	X	X	X	X	X	X	X	MS/MSD
MW-8-2-092722	MW-8-2	Water	09/27/2022	12:58	X		X	X	X	X	X	X	X	X	
DUPLICATE-1	MW-8-2	Water	09/27/2022	16:30	X		X	X	X	X	X	X	X	X	FD(MW-8-2-092722); MS/MSD
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
TRIP BLANK	-	Water	09/27/2022	-	X										Trip Blank
MW-8-3-092822	MW-8-3	Water	09/28/2022	13:45	X		X	X	X	X	X	X	X	X	MS/MSD/DUP
MW-8-4-092822	MW-8-4	Water	09/28/2022	11:45	X		X	X	X	X	X	X	X	X	MS/DUP
MW-8-003-B-092822	MW-8-003-B	Water	09/28/2022	09:23	X		X	X	X	X	X	X	X	X	MS/DUP
MW-6-1-092922	MW-6-1	Water	09/29/2022	11:00	X		X	X	X	X	X	X	X	X	MS/DUP
MW-6-2-092922	MW-6-2	Water	09/29/2022	09:35	X		X	X	X	X	X	X	X	X	
MW-6-F-8-092922	MW-6-F-8	Water	09/29/2022	12:00	X		X	X	X	X	X	X	X	X	

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
					Select VOC	PAH	Dissolved Gases	Select Metals	Chloride, Sulfate	Ammonia	Nitrate, Nitrite	TOC	Alkalinity	Sulfide	
MW-10-2-100322	MW-10-2	Water	10/03/2022	14:20	X		X	X	X	X	X	X	X	X	MS
TK-6-100322	TK-6	Water	10/03/2022	15:15	X		X	X	X	X	X	X	X	X	MS/DUP
BLDG-10-MW-1-100322	BLDG-10-MW-1	Water	10/03/2022	16:35	X		X	X	X	X	X	X	X	X	MS
DUPLICATE-2	BLDG-10-MW-1	Water	10/03/2022	12:05	X		X	X	X	X	X	X	X	X	FD(BLDG-10-MW-1-100322)
MW-7-2-100422	MW-7-2	Water	10/04/2022	12:30	X		X	X	X	X	X	X	X	X	
MW-7-C-2-100422	MW-7-C-2	Water	10/04/2022	10:00	X		X	X	X	X	X	X	X	X	MS
MW-7-7-100422	MW-7-7	Water	10/04/2022	13:20	X		X	X	X	X	X	X	X	X	DUP
Trip Blank-100422	-	Water	10/04/2022	-	X										Trip Blank
MW-7-3-100522	MW-7-3	Water	10/05/2022	16:15	X		X	X	X	X	X	X	X	X	DUP
MW-7-5-100522	MW-7-5	Water	10/05/2022	14:40	X		X	X	X	X	X	X	X	X	MS/MSD
MW-7-A-6-100522	MW-7-A-6	Water	10/05/2022	12:50	X		X	X	X	X	X	X	X	X	MS/DUP
TripBlank-100522	-	Water	10/05/2022	-	X										Trip Blank
MW-7-6-100622	MW-7-6	Water	10/06/2022	10:00	X		X	X	X	X	X	X	X	X	MS/MSD
MW-7-P-1-100622	MW-7-P-1	Water	10/06/2022	12:15	X		X	X	X	X	X	X	X	X	
MW-7-8-100722	MW-7-8	Water	10/07/2022	09:15	X		X	X	X	X	X	X	X	X	

Notes:

- - Not applicable
- DUP - Laboratory Duplicate
- FD() - Field Duplicate of Sample in Parentheses
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- PAH - Polynuclear Aromatic Hydrocarbons
- TOC - Total Organic Carbon
- VOC - Volatile Organic Compounds

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	BLDG-10-MW-1	BLDG-10-MW-1	MW-6-1	MW-6-2	MW-6-F-8	MW-7-1	MW-7-2
Sample Name:	BLDG-10-MW-1-100322	DUPLICATE-2	MW-6-1-092922	MW-6-2-092922	MW-6-F-8-092922	MW-7-1-092222	MW-7-2-100422
Sample Date:	10/03/2022	10/03/2022	09/29/2022	09/29/2022	09/29/2022	09/22/2022	10/04/2022
		Duplicate					
Parameters	Unit						
Volatile Organic Compounds							
cis-1,2-Dichloroethene	µg/L	5000 U	5000 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	140000	130000	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	5000 U	5000 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	4300 J	4800 J	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	5000 U	5000 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds							
Acenaphthene	µg/L	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--
Dissolved Gases							
Carbon dioxide	µg/L	82000	74000	130000	42000	63000	44000
Ethane	µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Ethene	µg/L	4.3 J	4.3 J	7.0 U	7.0 U	7.0 U	7.0 U
Methane	µg/L	5.1	4.6	2.0 J	280	4.0 U	4.0 U

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	BLDG-10-MW-1	BLDG-10-MW-1	MW-6-1	MW-6-2	MW-6-F-8	MW-7-1	MW-7-2
Sample Name:	BLDG-10-MW-1-100322	DUPLICATE-2	MW-6-1-092922	MW-6-2-092922	MW-6-F-8-092922	MW-7-1-092222	MW-7-2-100422
Sample Date:	10/03/2022	10/03/2022	09/29/2022	09/29/2022	09/29/2022	09/22/2022	10/04/2022
		Duplicate					

Parameters	Unit							
Metals								
Iron	mg/L	1.2	1.2	25.9	0.039 J	0.033 J	0.13	0.032 J
Magnesium	mg/L	100	101	68.7	48.0	87.5	130	50.6
Manganese	mg/L	0.66	0.67	5.8	0.32	0.21	0.70	0.014
Potassium	mg/L	4.9	4.9	5.9	5.8	4.0	7.4	2.2
Sodium	mg/L	137	139	642	520	1240	1100	211
General Chemistry								
Alkalinity, total (as CaCO ₃)	mg/L	310 J-	313 J-	504	379	454	278 J-	362 J-
Ammonia-N	mg/L	0.16 J-	0.15 J-	2.0	0.020 U	0.020 U	0.010 J-	0.020 UJ
Chloride	mg/L	1090	725	1360	1020	2160	3820	432
Nitrate (as N)	mg/L	0.050 UJ	0.050 UJ	0.091 J+	0.022 J+	0.046 J+	0.050 U	0.028 J-
Nitrite (as N)	mg/L	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 UJ
Sulfate	mg/L	493	295	30.1 J	114	281	205	47.0
Sulfide	mg/L	1.0 U	0.80 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	4.8	5.3	9.3	2.4	1.3	2.4	2.3

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:		MW-7-3	MW-7-4	MW-7-5	MW-7-6	MW-7-7	MW-7-8	MW-7-A-6
Sample Name:		MW-7-3-100522	MW-7-4-092222	MW-7-5-100522	MW-7-6-100622	MW-7-7-100422	MW-7-8-100722	MW-7-A-6-100522
Sample Date:		10/05/2022	09/22/2022	10/05/2022	10/06/2022	10/04/2022	10/07/2022	10/05/2022
Parameters		Unit						
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	2.0 U	1.0 U	590	750	36000	440	200000
Tetrachloroethene	µg/L	2.0 U	1.0 U	10000	630 J-	68000	820	48000
trans-1,2-Dichloroethene	µg/L	2.0 U	1.0 U	100 U	10 U	1000 U	10 U	2000 U
Trichloroethene	µg/L	2.0 U	15	860	340	17000	340	8600
Vinyl chloride	µg/L	2.0 U	1.0 U	100 U	13	7200	220	110000
Semivolatile Organic Compounds								
Acenaphthene	µg/L	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--	--
Dissolved Gases								
Carbon dioxide	µg/L	88000	40000	84000	44000	66000	16000	420000 J
Ethane	µg/L	170 U	7.5 U	7.5 U	83 U	330 U	1.9 J	150 J
Ethene	µg/L	150 U	7.0 U	7.0 U	77 U	590	2.9 J	12000
Methane	µg/L	270	4.0 U	13	150	750	28	2000

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	MW-7-3	MW-7-4	MW-7-5	MW-7-6	MW-7-7	MW-7-8	MW-7-A-6
Sample Name:	MW-7-3-100522	MW-7-4-092222	MW-7-5-100522	MW-7-6-100622	MW-7-7-100422	MW-7-8-100722	MW-7-A-6-100522
Sample Date:	10/05/2022	09/22/2022	10/05/2022	10/06/2022	10/04/2022	10/07/2022	10/05/2022

Parameters**Unit****Metals**

Iron	mg/L	7.6	0.039 J	0.48	0.18	0.092	7.0	24.0
Magnesium	mg/L	147	43.8	99.3	96.7	177	199	165
Manganese	mg/L	0.46	0.0030 U	1.1	0.32	0.037	0.74	2.5
Potassium	mg/L	35.2	3.3	9.0	15.1	45.0	43.9	5.4
Sodium	mg/L	5070	240	2850	3850	1630	2250	586

General Chemistry

Alkalinity, total (as CaCO ₃)	mg/L	413 J-	335 J-	347 J-	317 J-	307 J-	127 J-	502
Ammonia-N	mg/L	1.9 J-	0.020 UJ	0.020 UJ	0.050 J-	3.3 J-	0.36 J-	0.086 J-
Chloride	mg/L	16800	587	9220	12700	4020	5090	1710
Nitrate (as N)	mg/L	0.14	0.027 J	1.0	0.058	0.050 UJ	0.050 U	0.57
Nitrite (as N)	mg/L	R	0.025 J	R	R	0.050 UJ	R	R
Sulfate	mg/L	2070	74.5	800	714	422	187 J	30.1 J
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	3.9	1.8	6.0	2.8	8.6	2.3	40.8

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:		MW-7-C-2	MW-7-P-1	MW-8-1	MW-8-2	MW-8-2	MW-8-3	MW-8-003-B
Sample Name:		MW-7-C-2-100422	MW-7-P-1-100622	MW-8-1-092722	DUPLICATE-1	MW-8-2-092722	MW-8-3-092822	MW-8-003-B-092822
Sample Date:		10/04/2022	10/06/2022	09/27/2022	09/27/2022 Duplicate	09/27/2022	09/28/2022	09/28/2022
Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	300	2.0	1.1	7800	6500	9.3	870
Tetrachloroethene	µg/L	10 U	2.0 U	1.0 U	200 U	200 U	2.0 U	2100
trans-1,2-Dichloroethene	µg/L	10 U	2.4	1.0 U	200 U	200 U	2.0 U	50 U
Trichloroethene	µg/L	10 U	2.0 U	0.76 J	200 U	200 U	2.8	350
Vinyl chloride	µg/L	140	2.3	1.0 U	2500	3000	25	50 U
Semivolatile Organic Compounds								
Acenaphthene	µg/L	--	--	--	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--	--	--	--
Anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--	--	--	--
Chrysene	µg/L	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--	--	--	--
Fluoranthene	µg/L	--	--	--	--	--	--	--
Fluorene	µg/L	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--	--	--	--
Naphthalene	µg/L	--	--	--	--	--	--	--
Phenanthrene	µg/L	--	--	--	--	--	--	--
Pyrene	µg/L	--	--	--	--	--	--	--
Dissolved Gases								
Carbon dioxide	µg/L	11000	110000	66000	54000	50000	91000	10000
Ethane	µg/L	7.5 U	83 U	83 U	83 U	83 U	8.0	7.5 U
Ethene	µg/L	4.2 J	77 U	77 U	77 U	77 U	7.0 U	3.8 J
Methane	µg/L	220	7100	160	530	470	94	5.6

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	MW-7-C-2	MW-7-P-1	MW-8-1	MW-8-2	MW-8-2	MW-8-3	MW-8-003-B
Sample Name:	MW-7-C-2-100422	MW-7-P-1-100622	MW-8-1-092722	DUPLICATE-1	MW-8-2-092722	MW-8-3-092822	MW-8-003-B-092822
Sample Date:	10/04/2022	10/06/2022	09/27/2022	09/27/2022	09/27/2022	09/28/2022	09/28/2022
				Duplicate			

Parameters	Unit							
Metals								
Iron	mg/L	2.4	64.6	0.031 J	0.35	0.36	0.084	0.12
Magnesium	mg/L	141	277	124	49.8	49.3	49.3	19.1
Manganese	mg/L	0.35	3.5	0.11	0.024	0.025	6.0	0.31
Potassium	mg/L	5.1	30.4	19.8	16.0	15.9	412	10.5
Sodium	mg/L	118	173	618	234	233	301	2460
General Chemistry								
Alkalinity, total (as CaCO3)	mg/L	322 J-	239 J-	20.0	361	354	330	307
Ammonia-N	mg/L	0.16 J-	137 J-	1.0 J-	0.70 J-	0.71 J-	5.6	0.042
Chloride	mg/L	151	3320	1500	482	477	1780	6110
Nitrate (as N)	mg/L	0.050 UJ	0.081	0.050 U	0.050 U	0.050 U	0.10 J+	0.30 J+
Nitrite (as N)	mg/L	0.050 UJ	R	0.050 U	0.050 U	0.050 U	0.050 UJ	0.024 J-
Sulfate	mg/L	902	25.2 J	999	228	229	70.0	198 J
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	2.7	4.3	0.90 J	1.4	1.4	9.8	2.2

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	MW-8-4	MW-9-12	MW-9-101-A	MW-10-2	MW-10-3	TK-6	
Sample Name:	MW-8-4-092822	MW-9-12-092622	MW-9-101-A-092622	MW-10-2-100322	MW-10-3-092622	TK-6-100322	
Sample Date:	09/28/2022	09/26/2022	09/26/2022	10/03/2022	09/26/2022	10/03/2022	
Parameters	Unit						
Volatile Organic Compounds							
cis-1,2-Dichloroethene	µg/L	27	1.0 U	2.0 U	21	1.0	2.0 U
Tetrachloroethene	µg/L	2.0 U	1.0 U	2.0 U	1.0 U	2.9	2.0 U
trans-1,2-Dichloroethene	µg/L	2.0 U	1.0 U	2.0 U	1.6	1.0 U	2.0 U
Trichloroethene	µg/L	5.9	1.0 U	2.0 U	0.65 J	4.5	2.0 U
Vinyl chloride	µg/L	10	1.0 U	2.0 U	23	1.0 U	2.0 U
Semivolatile Organic Compounds							
Acenaphthene	µg/L	--	5.2 U	5.0 U	--	--	--
Acenaphthylene	µg/L	--	5.2 U	5.0 U	--	--	--
Anthracene	µg/L	--	5.2 U	5.0 U	--	--	--
Benzo(a)anthracene	µg/L	--	5.2 U	5.0 U	--	--	--
Benzo(a)pyrene	µg/L	--	5.2 U	5.0 U	--	--	--
Benzo(b)fluoranthene	µg/L	--	5.2 U	5.0 U	--	--	--
Benzo(g,h,i)perylene	µg/L	--	5.2 U	5.0 U	--	--	--
Benzo(k)fluoranthene	µg/L	--	5.2 U	5.0 U	--	--	--
Chrysene	µg/L	--	5.2 U	5.0 U	--	--	--
Dibenz(a,h)anthracene	µg/L	--	5.2 U	5.0 U	--	--	--
Fluoranthene	µg/L	--	5.2 U	5.0 U	--	--	--
Fluorene	µg/L	--	5.2 U	5.0 U	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	5.2 U	5.0 U	--	--	--
Naphthalene	µg/L	--	5.2 U	5.0 U	--	--	--
Phenanthrene	µg/L	--	5.2 U	5.0 U	--	--	--
Pyrene	µg/L	--	5.2 U	5.0 U	--	--	--
Dissolved Gases							
Carbon dioxide	µg/L	5000 U	25000	36000	21000	18000	34000
Ethane	µg/L	7.5 U	7.5 U	7.5 U	83 U	7.5 U	7.5 U
Ethene	µg/L	7.0 U	7.0 U	7.0 U	38 J	7.0 U	7.0 U
Methane	µg/L	150	3.8 J	4.0 U	120	4.0 U	4.0 U

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings - BCP Sites
Lockport, New York
September-October 2022**

Location ID:	MW-8-4	MW-9-12	MW-9-101-A	MW-10-2	MW-10-3	TK-6
Sample Name:	MW-8-4-092822	MW-9-12-092622	MW-9-101-A-092622	MW-10-2-100322	MW-10-3-092622	TK-6-100322
Sample Date:	09/28/2022	09/26/2022	09/26/2022	10/03/2022	09/26/2022	10/03/2022

Parameters	Unit						
Metals							
Iron	mg/L	0.38	0.085	0.050 U	0.61	0.035 J	0.050 U
Magnesium	mg/L	37.7	23.7 J-	126 J-	53.8	27.0 J-	87.8
Manganese	mg/L	0.25	0.31	0.011	0.17	0.0030 U	0.0013 J
Potassium	mg/L	9.6	3.9 J-	27.0 J-	8.6	6.8 J-	2.2
Sodium	mg/L	1210	527	1820	1220	136	1190
General Chemistry							
Alkalinity, total (as CaCO ₃)	mg/L	145	290	274 J-	286 J-	150	280 J-
Ammonia-N	mg/L	0.069	0.020 UJ	0.020 UJ	0.26 J-	0.020 UJ	0.020 UJ
Chloride	mg/L	2320	858	4160	3680	104	2760
Nitrate (as N)	mg/L	0.028 J+	0.10 J-	0.20 J-	0.050 UJ	0.28 J-	0.27 J-
Nitrite (as N)	mg/L	0.028 J-	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 UJ
Sulfate	mg/L	178	94.6	1480	305	163	142 J
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	2.4	2.1	3.3	1.7	1.2	0.63 J

Notes:

J - Estimated concentration

J+ - Estimated concentration; result may be biased high

J- - Estimated concentration; result may be biased low

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

N - Nitrogen

-- - Not applicable

R - Rejected

Table 3
Analytical Methods
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Select Volatile Organic Compounds (VOC)	SW-846 8260C	Water	-	14
Polynuclear Aromatic Hydrocarbons (PAH)	SW-846 8270D	Water	7	40
Methane, Ethane, Ethene, Carbon dioxide	RSK 175	Water	-	14
Select Metals	SW-846 6010C	Water	-	180
Chloride, Sulfate	EPA 300.0	Water	-	28
Ammonia-N	EPA 350.1	Water	-	28
Nitrate, Nitrite	EPA 353.2	Water	-	48 hours
Total Organic Carbon (TOC)	SW 846 9060A	Water	-	28
Alkalinity	SM 2320B	Water	-	14
Sulfide	SM 4500 S2 F	Water	-	7

Notes:

- - Not applicable
- N - Nitrogen

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions
- EPA - "Methods for Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983 with subsequent revisions
- USEPA - United States Environmental Protection Agency
- RSK 175 - Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
General Chemistry	MW-7-1-092222	15	14	Alkalinity, total (as CaCO ₃)	278 J-	mg/L
	MW-7-4-092222	19			335 J-	mg/L
	MW-9-101-A-092622	15			274 J-	mg/L
General Chemistry	MW-7-3-100522	192 hours	48 hours	Nitrite (as N)	R	
	MW-7-5-100522	192 hours			R	
	MW-7-A-6-100522	192 hours			R	
	MW-7-6-100622	168 hours			R	
	MW-7-P-1-100622	168 hours			R	
	MW-7-8-100722	168 hours			R	

Notes:

- J- - Estimated concentration, result may be biased low
N - Nitrogen
R - Rejected

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Manganese	09/27/2022	0.00288 J	MW-7-4-092222	0.0030 B	0.0030 U	mg/L
Metals	Manganese	09/29/2022	0.0009 J	MW-10-3-092622	0.0014 JB	0.0030 U	mg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- B - Laboratory qualifier - result detected in associated method blank
- J - Estimated concentration
- JB - Lab flag indicating an estimated concentration and blank contamination present in the method blank
- U - Not detected at the associated reporting limit

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
VOC	MW-7-6-100622	Tetrachloroethene	68	67	0	74-122	20	630 J-	µg/L
Metals	MW-10-3-092622	Magnesium	32	38	2	75-125	20	27.0 J-	mg/L
	MW-9-101-A-092622							126 J-	mg/L
	MW-9-12-092622							23.7 J-	mg/L
Metals	MW-10-3-092622	Potassium	66	71	3	75-125	20	6.8 J-	mg/L
	MW-9-101-A-092622							27.0 J-	mg/L
	MW-9-12-092622							3.9 J-	mg/L
General Chemistry	MW-10-3-092622	Ammonia-N	69	69	0	90-110	20	0.020 UJ	mg/L
	MW-9-12-092622							0.020 UJ	mg/L
	MW-9-101-A-092622							0.020 UJ	mg/L
	MW-8-1-092722							1.0 J-	mg/L
	MW-8-2-092722							0.71 J-	mg/L
	DUPLICATE-1							0.70 J-	mg/L
General Chemistry	MW-7-6-100622	Ammonia-N	79	80	0	90-110	20	0.050 J-	mg/L
	MW-7-P-1-100622							137 J-	mg/L
	MW-7-8-100722							0.36 J-	mg/L
General Chemistry	MW-10-3-092622	Nitrate (as N)	60	60	1	90-110	20	0.28 J-	mg/L
	MW-9-101-A-092622							0.20 J-	mg/L
	MW-9-12-092622							0.10 J-	mg/L

Notes:

- J- - Estimated concentration, result may be biased low
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- N - Nitrogen
- RPD - Relative Percent Difference
- UJ - Not detected; associated reporting limit is estimated
- VOC - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Outlying Matrix Spike Recoveries
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Spiked Sample ID	Analyte	MS	Control Limits	Associated Sample IDs	Qualified Result	Units
			% Recovery	% Recovery			
General Chemistry	MW-7-1-092222	Ammonia-N	83	90-110	MW-7-1-092222	0.010 J-	mg/L
					MW-7-4-092222	0.020 UJ	mg/L
General Chemistry	BLDG-10-MW-1-100322	Ammonia-N	85	90-110	DUPLICATE-2	0.15 J-	mg/L
					MW-7-C-2-100422	0.16 J-	mg/L
					MW-10-2-100322	0.26 J-	mg/L
					MW-7-7-100422	3.3 J-	mg/L
					BLDG-10-MW-1-100322	0.16 J-	mg/L
					TK-6-100322	0.020 UJ	mg/L
					MW-7-2-100422	0.020 UJ	mg/L
General Chemistry	MW-7-A-6-100522	Ammonia-N	70	90-110	MW-7-A-6-100522	0.086 J-	mg/L
					MW-7-3-100522	1.9 J-	mg/L
					MW-7-5-100522	0.020 UJ	mg/L
General Chemistry	MW-8-4-092822	Nitrite (as N)	86	90-110	MW-8-003-B-092822	0.024 J-	mg/L
					MW-8-4-092822	0.028 J-	mg/L
					MW-8-3-092822	0.050 UJ	mg/L
					MW-6-1-092922	0.050 UJ	mg/L

Table 7

Qualified Sample Data Due to Outlying Matrix Spike Recoveries
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Spiked Sample ID	Analyte	MS	Control Limits	Associated Sample IDs	Qualified Result	Units
			% Recovery	% Recovery			
General Chemistry	TK-6-100322	Nitrite (as N)	75	90-110	TK-6-100322	0.050 UJ	mg/L
General Chemistry	MW-10-2-100322	Alkalinity, total (as CaCO3)	52	60-140	DUPLICATE-2	313 J-	mg/L
					BLDG-10-MW-1-100322	310 J-	mg/L
					MW-10-2-100322	286 J-	mg/L
					TK-6-100322	280 J-	mg/L
					MW-7-2-100422	362 J-	mg/L
					MW-7-C-2-100422	322 J-	mg/L
					MW-7-7-100422	307 J-	mg/L
					MW-7-3-100522	413 J-	mg/L
					MW-7-5-100522	347 J-	mg/L
					MW-7-6-100622	317 J-	mg/L
					MW-7-P-1-100622	239 J-	mg/L
					MW-7-8-100722	127 J-	mg/L
General Chemistry	MW-8-4-092822	Nitrate (as N)	141	90-110	MW-6-2-092922	0.022 J+	mg/L
					MW-8-4-092822	0.028 J+	mg/L
					MW-6-F-8-092922	0.046 J+	mg/L
					MW-6-1-092922	0.091 J+	mg/L
					MW-8-3-092822	0.10 J+	mg/L
					MW-8-003-B-092822	0.30 J+	mg/L

Table 7

Qualified Sample Data Due to Outlying Matrix Spike Recoveries
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Spiked Sample ID	Analyte	MS % Recovery	Control Limits % Recovery	Associated Sample IDs	Qualified Result	Units
General Chemistry	MW-7-C-2-100422	Nitrate (as N)	37	90-110	MW-7-2-100422	0.028 J-	mg/L
					TK-6-100322	0.27 J-	mg/L
					BLDG-10-MW-1-100322	0.050 UJ	mg/L
					DUPLICATE-2	0.050 UJ	mg/L
					MW-10-2-100322	0.050 UJ	mg/L
					MW-7-7-100422	0.050 UJ	mg/L
					MW-7-C-2-100422	0.050 UJ	mg/L
General Chemistry	MW-7-C-2-100422	Nitrite (as N)	37	90-110	BLDG-10-MW-1-100322	0.050 UJ	mg/L
					DUPLICATE-2	0.050 UJ	mg/L
					MW-10-2-100322	0.050 UJ	mg/L
					MW-7-2-100422	0.050 UJ	mg/L
					MW-7-7-100422	0.050 UJ	mg/L
					MW-7-C-2-100422	0.050 UJ	mg/L

Notes:

- J- - Estimated concentration, result may be biased low
- J+ - Estimated concentration, result may be biased high
- MS - Matrix Spike
- N - Nitrogen
- UJ - Not detected; associated reporting limit is estimated

Table 8

Qualified Sample Data Due to Exceedance of Calibration Range
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
September and October 2022

Parameter	Sample ID	Analyte	Qualified Result	Units
Dissolved Gases	MW-7-A-6-100522	Carbon dioxide	420000 J	µg/L

Notes:

J - Estimated concentration



APPENDIX D

ANAEROBIC BIODEGRADATION SCREENING TABLES

EPA cVOC MONITORED NATURAL ATTENUATION RANKING SYSTEM

2022 Strength of Evidence Scorecard
GM Components Holdings, LLC
NYSDEC Site # C932138
Lockport, New York

Analysis	Concentration in Most Contaminated Zone	Value	MW-7-1R	MW-7-2	MW-7-3	MW-7-4	MW-7-5	MW-7-6	MW-7-7	MW-7-8	MW-7-A-6	MW-7-C-2	MW-7-P-1	MW-6-1	MW-6-2	MW-6-F-8	MW-8-1	MW-8-2	MW-8-3	MW-8-4	MW-8-003-B	MW-9-101A	MW-9-12	TK-6	MW-10-1	MW-10-2	MW-10-3
DO	<0.5 mg/L	3	0	0	3	0	3	3	3	0	3	3	3	3	3	3	3	3	0	0	3	0	3	0	3	0	3
DO	>5 mg/l	-3																									
Nitrate	<1 mg/L	2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Iron II	>1 mg/l	2	0	0	2	0	0	0	0	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0
Sulfate	<20 mg/L	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfide	>1 mg/L	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Methane	<0.5 mg/L	0	3	0	3	0	3	3	3	3	3	3	3	3	3	0	3	3	3	3	3	0	3	0	3	3	0
Methane	>0.5 mg/L	3																									
ORP	<50 mV	1	1	0	1	0	0	1	2	1	1	1	2	2	1	0	2	2	1	0	0	0	0	1	1	0	
ORP	<-100 mV	2																									
pH	5> pH <9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pH	pH<5 or pH >10	-2																									
TOC	>20 mg/L	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temp	> 20°C	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0
Carbon Dioxide	>2 times background (15,000)	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1
Alkalinity	>2 times background (356)	1	0	1	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Chloride	>2 times background (2,195)	2	2	0	2	0	2	2	2	2	0	0	2	0	0	0	0	0	0	2	2	2	0	2	0	2	0
Hydrogen	>1 nM	3																									
Hydrogen	<1nM	0																									
Volatile Fatty Acids	>0.1 mg/L	2																									
BTEX	>0.1 mg/L	2																									
PCE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCE	If Daughter Product	2	0	0	0	2	2	2	2	2	2	0	0	0	0	0	0	0	2	2	2	0	0	0	2	0	2
DCE	If Daughter Product	2	0	0	0	0	2	2	2	2	2	2	2	0	0	0	2	2	2	2	2	0	0	0	0	2	0
VC	If Daughter Product	2	0	0	0	0	0	2	2	2	2	2	2	0	0	0	0	2	2	2	0	0	0	0	0	2	0
1,1,1-TCA		0																									
DCA	If Daughter Product	2																									
Carbon Tetrachloride		0																									
Chloroethane	If Daughter Product	2																									
Ethene/Ethane	>0.01 mg/L or	2	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	>0.1 mg/L	3																									
Chloroform	If Daughter Product	2																									
Dichloromethane	If Daughter Product	2																									
		SCORE	9	4	15	5	13	18	22	17	24	15	20	14	11	7	13	16	14	13	14	5	9	5	15	13	8

Scoring Interpretation	
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics
6 to 14	Limited evidence for anaerobic biodegradation* of chlorinated organics
15 to 20	Adequate evidence for anaerobic biodegradation* of chlorinated organics
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics
*reductive dechlorination	
Values Taken from EPA Document EPA/600/R-98/128, Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water , 1998, Table 2.3 and Table 2.4	

- Notes:
1. ND=not detected
2. NT=not tested
3. EM=Equipment malfunction



APPENDIX E

TABLE E-1 WELL CONDITION SURVEY



APPENDIX F

EUROFINS TEST AMERICA ANALYTICAL LABORATORY REPORTS



ANALYTICAL REPORT

PREPARED FOR

Attn: Kathleen Willy
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304
Generated 12/1/2022 4:46:48 PM Revision 1

JOB DESCRIPTION

058507, GM Lockport SSOW 256043
SDG NUMBER BCP

JOB NUMBER

480-201913-1

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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Authorization



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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Buffalo

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Job ID: 480-201913-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-201913-1

Comments

A revised report was provided on December 1, 2022. Sample ID: MW-9-101-A-092622 was corrected. Metals batch QC 480-643358-1 is now included in the report. The QC for Nitrate + Nitrite is now included in the report.

Receipt

The samples were received on 9/22/2022 5:42 PM, 9/26/2022 3:20 PM, 9/27/2022 5:10 PM, 9/28/2022 3:40 PM, 9/29/2022 2:45 PM, 10/3/2022 6:00 PM, 10/4/2022 2:00 PM, 10/5/2022 5:05 PM, 10/6/2022 3:55 PM and 10/7/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.3° C, 2.4° C, 2.4° C, 3.2° C, 3.4° C, 3.6° C, 4.6° C, 4.6° C, 4.7° C, 5.8° C, 6.4° C and 11.3° C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-9-101A-092622 (480-202047-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-642968 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are impacted: MW-10-3-092622 (480-202047-3[MS]) and MW-10-3-092622 (480-202047-3[MSD]).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-643152 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-8-1-092722 (480-202074-1), MW-8-2-092722 (480-202074-2), DUPLICATE-1 (480-202074-3) and TRIP BLANK (480-202074-4).

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-643447 recovered outside control limits for the following analytes: Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-8-3-092822 (480-202115-1), MW-8-4-092822 (480-202115-2), MW-8-003-B-092822 (480-202115-3) and TRIP BLANK (480-202115-4).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-8-3-092822 (480-202115-1) and MW-8-4-092822 (480-202115-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The surrogate recovery for the blank associated with analytical batch 480-643837 was outside control limits by 2% low. The surrogate recovery for the samples was within limits. The following samples are impacted: MW-6-1-092922 (480-202161-1), MW-6-2-092922 (480-202161-2), MW-6-F-8-092922 (480-202161-3) and TRIP BLANK (480-202161-4).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: TK-6-100322 (480-202255-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-645313 recovered above the upper control limit for 2-Butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (480-202477-B-3).

Method 8260C: Several samples were diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-7-3-100522 (480-202381-1) and MW-7-P-1-100622 (480-202434-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-645608 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was

Case Narrative

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Job ID: 480-201913-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

within acceptance limits.

Method 8260C: The matrix spike duplicate (MSD) recoveries for analytical batch 480-645911 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated sample is impacted: (480-202381-K-2 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

Method 300.0: Several samples were diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method RSK-175: Several samples were diluted to bring the concentration of target analytes within the calibration range. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2320B: Insufficient sample volume was available to perform a re-analysis of the matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 480-644554.

Method 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: (480-202438-G-16), (480-202438-G-16 DU) and (480-202438-G-16 MS).

Method SM 2320B: Reanalysis of the following sample was performed outside of the analytical holding time due to failing high QC in original analysis : MW-7-1-092222 (480-201913-2). Both sets of data are being reported.

Method SM 2320B: The Total Alkalinity initial calibration verification (ICV) result for batch 480-644289 was above the upper control limit. Sample results were not non-detects but were analyzed out side of analytical hold, both sets of data have been reported.

Method SM 2320B: The following samples were analyzed outside of analytical holding time due to laboratory error: MW-7-4-092222 (480-201913-3) and MW-9-101A-092622 (480-202047-2).

Method 353.2: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-7-3-100522 (480-202381-1), MW-7-5-100522 (480-202381-2), MW-7-A-6-100522 (480-202381-3), MW-7-6-100622 (480-202434-1), MW-7-6-100622 (480-202434-1[MS]), MW-7-6-100622 (480-202434-1[MSD]), MW-7-P-1-100622 (480-202434-2) and MW-7-8-100722 (480-202483-1)

Method SM 2320B: The method blank for analytical batch 480-645786 contained Total Alkalinity above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method SM 2320B: The method blank for analytical batch 480-645802 contained Alkalinity, Total, Alkalinity, Bicarbonate and Alkalinity, Carbonate above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Case Narrative

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Job ID: 480-201913-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method SM 2320B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-646002 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-1-092222

Lab Sample ID: 480-201913-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	72000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	41		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.13		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	130		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.70	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1100		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3820		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	205		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.010	J F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	2.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	317	^1+ ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Alkalinity	278	H	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-4-092222

Lab Sample ID: 480-201913-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	15		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	40000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.039	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	43.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0030	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	240		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	587		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	74.5		20.0	3.5	mg/L	10		300.0	Total/NA
Nitrate	0.027	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.052		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.025	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	335	H	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank-092222

Lab Sample ID: 480-201913-4

No Detections.

Client Sample ID: MW-9-12-092622

Lab Sample ID: 480-202047-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	25000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	3.8	J	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.085		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	23.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.31	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	527		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	858		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	94.6		20.0	3.5	mg/L	10		300.0	Total/NA
Nitrate	0.10		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.10		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.1		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	290		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-9-101A-092622

Lab Sample ID: 480-202047-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	36000		5000	5000	ug/L	1		RSK-175	Total/NA
Magnesium	126		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.011	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	27.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1820		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4160		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	1480		100	17.5	mg/L	50		300.0	Total/NA
Nitrate	0.20		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.20		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	274	H	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-10-3-092622

Lab Sample ID: 480-202047-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.9	F1	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	4.5	F1	1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	18000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.035	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	27.0	F1	0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0014	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.8	F1	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	136		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	104		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	163		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate	0.28		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.28	F1	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	150		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-1-092722

Lab Sample ID: 480-202074-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.76	J	1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	66000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	160		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.031	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	124		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	19.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	618		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1500		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	999		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	1.0		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	0.90	J	1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	20.0		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-2-092722

Lab Sample ID: 480-202074-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6500		200	160	ug/L	200		8260C	Total/NA
Vinyl chloride	3000		200	180	ug/L	200		8260C	Total/NA
Carbon dioxide	50000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	470		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.36		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	49.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.025		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	15.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	233		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	477		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	229		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.71		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	354		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DUPLICATE-1

Lab Sample ID: 480-202074-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7800		200	160	ug/L	200		8260C	Total/NA
Vinyl chloride	2500		200	180	ug/L	200		8260C	Total/NA
Carbon dioxide	54000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	530		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.35		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	49.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.024		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	16.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	234		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	482		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	228		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.70		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	361	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202074-4

No Detections.

Client Sample ID: MW-8-3-092822

Lab Sample ID: 480-202115-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.3		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	2.8		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	25		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	91000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	8.0		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane	94		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.084		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	49.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	6.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	412		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	301		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1780		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	70.0		40.0	7.0	mg/L	20		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-3-092822 (Continued)

Lab Sample ID: 480-202115-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	5.6		0.10	0.045	mg/L	5		350.1	Total/NA
Nitrate	0.10		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.10		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	9.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	330		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-4-092822

Lab Sample ID: 480-202115-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	5.9		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	10		2.0	1.8	ug/L	2		8260C	Total/NA
Methane	150		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.38		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	37.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.25		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	9.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1210		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2320		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	178		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.069		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.028	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.056	F1	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.028	J F1	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	145		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-003-B-092822

Lab Sample ID: 480-202115-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	870		50	41	ug/L	50		8260C	Total/NA
Tetrachloroethene	2100		50	18	ug/L	50		8260C	Total/NA
Trichloroethene	350		50	23	ug/L	50		8260C	Total/NA
Carbon dioxide	10000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	3.8	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	5.6		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.12		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	19.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.31		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2460		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	6110		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	198	J	200	34.9	mg/L	100		300.0	Total/NA
Ammonia	0.042		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.30		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.32		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.024	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	307		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202115-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-6-1-092922

Lab Sample ID: 480-202161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	130000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	2.0	J	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	25.9		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	68.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	5.8	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	642		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1360		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	30.1	J	40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	2.0		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.091		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.091	B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	9.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	504		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6-2-092922

Lab Sample ID: 480-202161-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	42000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	280		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.039	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	48.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.32	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	520		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1020		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	114		20.0	3.5	mg/L	10		300.0	Total/NA
Nitrate	0.022	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.022	J B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	379		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6-F-8-092922

Lab Sample ID: 480-202161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	63000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.033	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	87.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.21	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1240		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2160		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	281		40.0	7.0	mg/L	20		300.0	Total/NA
Nitrate	0.046	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.046	J B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	454		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202161-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-10-2-100322

Lab Sample ID: 480-202255-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	0.65	J	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0	0.90	ug/L	1		8260C	Total/NA
Carbon dioxide	21000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	38	J	77	17	ug/L	11		RSK-175	Total/NA
Methane	120		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.61		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	53.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.17		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	8.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1220		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3680		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	305		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.26	B	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.7		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	286	F1 B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TK-6-100322

Lab Sample ID: 480-202255-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	34000		5000	5000	ug/L	1		RSK-175	Total/NA
Magnesium	87.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0013	J	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1190		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2760		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	142	J	200	34.9	mg/L	100		300.0	Total/NA
Nitrate	0.27		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.27		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.63	J	1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	280	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: BLDG-10-MW-1-100322

Lab Sample ID: 480-202255-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	140000		5000	1800	ug/L	5000		8260C	Total/NA
Trichloroethene	4300	J	5000	2300	ug/L	5000		8260C	Total/NA
Carbon dioxide	82000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	4.3	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	5.1		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	100		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.66		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	137		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1090		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	493		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.16	B F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	4.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	310	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: DUPLICATE-2

Lab Sample ID: 480-202255-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130000		5000	1800	ug/L	5000		8260C	Total/NA
Trichloroethene	4800	J	5000	2300	ug/L	5000		8260C	Total/NA
Carbon dioxide	74000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	4.3	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	4.6		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	101		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.67		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	139		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	725		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	295		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.15	B	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	5.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	313	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	0.80	J	1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202255-5

No Detections.

Client Sample ID: MW-7-2-100422

Lab Sample ID: 480-202304-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	44000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.032	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	50.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.014	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	211		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	432		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	47.0		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate	0.028	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.028	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	362	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-C-2-100422

Lab Sample ID: 480-202304-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	140		10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	11000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	4.2	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	220		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	2.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	141		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.35	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	118		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	151		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	902		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.16	B	0.020	0.0090	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-C-2-100422 (Continued)

Lab Sample ID: 480-202304-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.7		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	322	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-7-100422

Lab Sample ID: 480-202304-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36000		1000	810	ug/L	1000		8260C	Total/NA
Tetrachloroethene	68000		1000	360	ug/L	1000		8260C	Total/NA
Trichloroethene	17000		1000	460	ug/L	1000		8260C	Total/NA
Vinyl chloride	7200		1000	900	ug/L	1000		8260C	Total/NA
Carbon dioxide	66000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	590		310	66	ug/L	44		RSK-175	Total/NA
Methane	750		180	44	ug/L	44		RSK-175	Total/NA
Iron	0.092		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	177		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.037	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	45.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1630		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4020		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	422		200	34.9	mg/L	100		300.0	Total/NA
Ammonia	3.3	B	0.040	0.018	mg/L	2		350.1	Total/NA
Total Organic Carbon	8.6		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	307	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank-100422

Lab Sample ID: 480-202304-4

No Detections.

Client Sample ID: MW-7-3-100522

Lab Sample ID: 480-202381-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	88000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	270		88	22	ug/L	22		RSK-175	Total/NA
Iron	7.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	147		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.46	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	35.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	5070		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	16800		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	2070		200	34.9	mg/L	100		300.0	Total/NA
Ammonia	1.9	B	0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.14		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.14		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.9		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	413	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-5-100522

Lab Sample ID: 480-202381-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	590		100	81	ug/L	100		8260C	Total/NA
Trichloroethene	860		100	46	ug/L	100		8260C	Total/NA
Tetrachloroethene - DL	10000	F1	200	72	ug/L	200		8260C	Total/NA
Carbon dioxide	84000		5000	5000	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-5-100522 (Continued)

Lab Sample ID: 480-202381-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	13		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.48		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	99.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	9.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2850		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	9220		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	800		200	34.9	mg/L	100		300.0	Total/NA
Nitrate	1.0		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	1.0		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	6.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	347	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-A-6-100522

Lab Sample ID: 480-202381-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200000		2000	1600	ug/L	2000		8260C	Total/NA
Tetrachloroethene	48000		2000	720	ug/L	2000		8260C	Total/NA
Trichloroethene	8600		2000	920	ug/L	2000		8260C	Total/NA
Vinyl chloride	110000		2000	1800	ug/L	2000		8260C	Total/NA
Carbon dioxide	420000	E	5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	150	J	170	33	ug/L	22		RSK-175	Total/NA
Methane	2000		88	22	ug/L	22		RSK-175	Total/NA
Carbon dioxide - DL	400000		10000	10000	ug/L	2		RSK-175	Total/NA
Ethene - DL	12000		770	170	ug/L	110		RSK-175	Total/NA
Iron	24.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	165		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	2.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	586		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1710		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	30.1	J	40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.086	F1 B	0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.57		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.57		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	40.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	502	B ^2	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TripBlank-100522

Lab Sample ID: 480-202381-4

No Detections.

Client Sample ID: MW-7-6-100622

Lab Sample ID: 480-202434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	750	F1	10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	630	F1	10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	340		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	13		10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	44000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	150		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.18		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	96.7		0.20	0.043	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-6-100622 (Continued)

Lab Sample ID: 480-202434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.32	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	15.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	3850		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	12700		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	714		200	34.9	mg/L	100		300.0	Total/NA
Ammonia	0.050	B F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.058		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.058	F1	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	317	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-P-1-100622

Lab Sample ID: 480-202434-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	2.4		2.0	1.8	ug/L	2		8260C	Total/NA
Vinyl chloride	2.3		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	110000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane - DL	7100		350	88	ug/L	88		RSK-175	Total/NA
Iron	64.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	277		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	30.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	173		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	3320		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	25.2	J	100	17.5	mg/L	50		300.0	Total/NA
Ammonia	137	B	2.0	0.90	mg/L	100		350.1	Total/NA
Nitrate	0.081		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.11		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	4.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	239	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202434-3

No Detections.

Client Sample ID: MW-7-8-100722

Lab Sample ID: 480-202483-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	440		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	820		10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	340		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	220		10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	16000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	1.9	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	2.9	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	28		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	7.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	199		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.74	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	43.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2250		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	5090		50.0	28.2	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-8-100722 (Continued)

Lab Sample ID: 480-202483-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	187	J	200	34.9	mg/L	100		300.0	Total/NA
Ammonia	0.36	B	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	2.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	127	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202483-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-1-092222

Lab Sample ID: 480-201913-2

Date Collected: 09/22/22 12:05

Matrix: Water

Date Received: 09/22/22 17:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/26/22 19:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/26/22 19:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/26/22 19:04	1
Trichloroethene	ND		1.0	0.46	ug/L			09/26/22 19:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/26/22 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		09/26/22 19:04	1
4-Bromofluorobenzene (Surr)	94		73 - 120		09/26/22 19:04	1
Toluene-d8 (Surr)	91		80 - 120		09/26/22 19:04	1
Dibromofluoromethane (Surr)	98		75 - 123		09/26/22 19:04	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	72000		5000	5000	ug/L			09/28/22 16:22	1
Ethane	ND		7.5	1.5	ug/L			09/25/22 19:40	1
Ethene	ND		7.0	1.5	ug/L			09/25/22 19:40	1
Methane	41		4.0	1.0	ug/L			09/25/22 19:40	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.13		0.050	0.019	mg/L		09/29/22 16:05	09/30/22 15:54	1
Magnesium	130		0.20	0.043	mg/L		09/26/22 12:41	09/27/22 14:40	1
Manganese	0.70	B	0.0030	0.00040	mg/L		09/26/22 12:41	09/27/22 14:40	1
Potassium	7.4		0.50	0.10	mg/L		09/26/22 12:41	09/27/22 14:40	1
Sodium	1100		5.0	1.6	mg/L		09/26/22 12:41	09/28/22 22:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	3820		25.0	14.1	mg/L			09/29/22 17:42	50
Sulfate (MCAWW 300.0)	205		100	17.5	mg/L			09/29/22 17:42	50
Ammonia (MCAWW 350.1)	0.010	J F1	0.020	0.0090	mg/L			09/26/22 11:15	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			09/23/22 21:14	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/23/22 21:14	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/23/22 21:14	1
Total Organic Carbon (SW846 9060A)	2.4		1.0	0.43	mg/L			09/28/22 15:04	1
Total Alkalinity (SM 2320B)	317	^1+ ^2	5.0	0.79	mg/L			10/05/22 18:22	1
Total Alkalinity (SM 2320B)	278	H	5.0	0.79	mg/L			10/07/22 17:58	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/24/22 16:19	1

Client Sample ID: MW-7-4-092222

Lab Sample ID: 480-201913-3

Date Collected: 09/22/22 16:30

Matrix: Water

Date Received: 09/22/22 17:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/26/22 19:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/26/22 19:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/26/22 19:26	1
Trichloroethene	15		1.0	0.46	ug/L			09/26/22 19:26	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-4-092222

Lab Sample ID: 480-201913-3

Date Collected: 09/22/22 16:30

Matrix: Water

Date Received: 09/22/22 17:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			09/26/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					09/26/22 19:26	1
4-Bromofluorobenzene (Surr)	94		73 - 120					09/26/22 19:26	1
Toluene-d8 (Surr)	91		80 - 120					09/26/22 19:26	1
Dibromofluoromethane (Surr)	99		75 - 123					09/26/22 19:26	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	40000		5000	5000	ug/L			09/28/22 16:31	1
Ethane	ND		7.5	1.5	ug/L			09/25/22 18:06	1
Ethene	ND		7.0	1.5	ug/L			09/25/22 18:06	1
Methane	ND		4.0	1.0	ug/L			09/25/22 18:06	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.039	J	0.050	0.019	mg/L		09/29/22 16:05	09/30/22 15:58	1
Magnesium	43.8		0.20	0.043	mg/L		09/26/22 12:41	09/27/22 14:44	1
Manganese	0.0030	B	0.0030	0.00040	mg/L		09/26/22 12:41	09/27/22 14:44	1
Potassium	3.3		0.50	0.10	mg/L		09/26/22 12:41	09/27/22 14:44	1
Sodium	240		1.0	0.32	mg/L		09/26/22 12:41	09/27/22 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	587		5.0	2.8	mg/L			09/29/22 17:52	10
Sulfate (MCAWW 300.0)	74.5		20.0	3.5	mg/L			09/29/22 17:52	10
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			09/26/22 11:17	1
Nitrate (EPA 353.2)	0.027	J	0.050	0.020	mg/L			09/23/22 21:07	1
Nitrate Nitrite as N (MCAWW 353.2)	0.052		0.050	0.020	mg/L			09/23/22 21:07	1
Nitrite (MCAWW 353.2)	0.025	J	0.050	0.020	mg/L			09/24/22 00:16	1
Total Organic Carbon (SW846 9060A)	1.8		1.0	0.43	mg/L			09/28/22 15:33	1
Total Alkalinity (SM 2320B)	335	H	5.0	0.79	mg/L			10/11/22 11:42	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/24/22 16:19	1

Client Sample ID: Trip Blank-092222

Lab Sample ID: 480-201913-4

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/22/22 17:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/26/22 19:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/26/22 19:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/26/22 19:48	1
Trichloroethene	ND		1.0	0.46	ug/L			09/26/22 19:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/26/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					09/26/22 19:48	1
4-Bromofluorobenzene (Surr)	95		73 - 120					09/26/22 19:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: Trip Blank-092222

Lab Sample ID: 480-201913-4

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/22/22 17:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		09/26/22 19:48	1
Dibromofluoromethane (Surr)	102		75 - 123		09/26/22 19:48	1

Client Sample ID: MW-9-12-092622

Lab Sample ID: 480-202047-1

Date Collected: 09/26/22 14:05

Matrix: Water

Date Received: 09/26/22 15:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/28/22 02:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/28/22 02:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/28/22 02:09	1
Trichloroethene	ND		1.0	0.46	ug/L			09/28/22 02:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/28/22 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					09/28/22 02:09	1
4-Bromofluorobenzene (Surr)	98		73 - 120					09/28/22 02:09	1
Toluene-d8 (Surr)	90		80 - 120					09/28/22 02:09	1
Dibromofluoromethane (Surr)	100		75 - 123					09/28/22 02:09	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.2	0.43	ug/L		09/29/22 09:05	09/30/22 22:00	1
Acenaphthylene	ND		5.2	0.40	ug/L		09/29/22 09:05	09/30/22 22:00	1
Anthracene	ND		5.2	0.29	ug/L		09/29/22 09:05	09/30/22 22:00	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		09/29/22 09:05	09/30/22 22:00	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		09/29/22 09:05	09/30/22 22:00	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		09/29/22 09:05	09/30/22 22:00	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		09/29/22 09:05	09/30/22 22:00	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		09/29/22 09:05	09/30/22 22:00	1
Chrysene	ND		5.2	0.34	ug/L		09/29/22 09:05	09/30/22 22:00	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		09/29/22 09:05	09/30/22 22:00	1
Fluoranthene	ND		5.2	0.42	ug/L		09/29/22 09:05	09/30/22 22:00	1
Fluorene	ND		5.2	0.38	ug/L		09/29/22 09:05	09/30/22 22:00	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		09/29/22 09:05	09/30/22 22:00	1
Naphthalene	ND		5.2	0.79	ug/L		09/29/22 09:05	09/30/22 22:00	1
Phenanthrene	ND		5.2	0.46	ug/L		09/29/22 09:05	09/30/22 22:00	1
Pyrene	ND		5.2	0.35	ug/L		09/29/22 09:05	09/30/22 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		48 - 120				09/29/22 09:05	09/30/22 22:00	1
Nitrobenzene-d5 (Surr)	85		46 - 120				09/29/22 09:05	09/30/22 22:00	1
p-Terphenyl-d14 (Surr)	93		60 - 148				09/29/22 09:05	09/30/22 22:00	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	25000		5000	5000	ug/L			10/03/22 15:23	1
Ethane	ND		7.5	1.5	ug/L			09/28/22 17:35	1
Ethene	ND		7.0	1.5	ug/L			09/28/22 17:35	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-9-12-092622

Lab Sample ID: 480-202047-1

Date Collected: 09/26/22 14:05

Matrix: Water

Date Received: 09/26/22 15:20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	3.8	J	4.0	1.0	ug/L			09/28/22 17:35	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.085		0.050	0.019	mg/L		09/28/22 09:23	09/29/22 02:44	1
Magnesium	23.7		0.20	0.043	mg/L		09/28/22 09:23	09/29/22 02:44	1
Manganese	0.31	B	0.0030	0.00040	mg/L		09/28/22 09:23	09/29/22 02:44	1
Potassium	3.9		0.50	0.10	mg/L		09/28/22 09:23	09/29/22 02:44	1
Sodium	527		1.0	0.32	mg/L		09/28/22 09:23	09/29/22 02:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	858		5.0	2.8	mg/L			10/01/22 02:36	10
Sulfate (MCAWW 300.0)	94.6		20.0	3.5	mg/L			10/01/22 02:36	10
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			09/29/22 08:34	1
Nitrate (EPA 353.2)	0.10		0.050	0.020	mg/L			09/27/22 17:53	1
Nitrate Nitrite as N (MCAWW 353.2)	0.10		0.050	0.020	mg/L			09/27/22 17:53	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/27/22 20:21	1
Total Organic Carbon (SW846 9060A)	2.1		1.0	0.43	mg/L			10/02/22 08:09	1
Total Alkalinity (SM 2320B)	290		5.0	0.79	mg/L			10/10/22 18:46	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/28/22 10:20	1

Client Sample ID: MW-9-101A-092622

Lab Sample ID: 480-202047-2

Date Collected: 09/26/22 09:15

Matrix: Water

Date Received: 09/26/22 15:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			09/28/22 02:32	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/28/22 02:32	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/28/22 02:32	2
Trichloroethene	ND		2.0	0.92	ug/L			09/28/22 02:32	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/28/22 02:32	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		09/28/22 02:32	2
4-Bromofluorobenzene (Surr)	99		73 - 120		09/28/22 02:32	2
Toluene-d8 (Surr)	92		80 - 120		09/28/22 02:32	2
Dibromofluoromethane (Surr)	99		75 - 123		09/28/22 02:32	2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		09/29/22 09:05	09/30/22 22:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/29/22 09:05	09/30/22 22:28	1
Anthracene	ND		5.0	0.28	ug/L		09/29/22 09:05	09/30/22 22:28	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/29/22 09:05	09/30/22 22:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/29/22 09:05	09/30/22 22:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/29/22 09:05	09/30/22 22:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/29/22 09:05	09/30/22 22:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/29/22 09:05	09/30/22 22:28	1

Eurofins Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-9-101A-092622

Lab Sample ID: 480-202047-2

Date Collected: 09/26/22 09:15

Matrix: Water

Date Received: 09/26/22 15:20

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		5.0	0.33	ug/L		09/29/22 09:05	09/30/22 22:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/29/22 09:05	09/30/22 22:28	1
Fluoranthene	ND		5.0	0.40	ug/L		09/29/22 09:05	09/30/22 22:28	1
Fluorene	ND		5.0	0.36	ug/L		09/29/22 09:05	09/30/22 22:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/29/22 09:05	09/30/22 22:28	1
Naphthalene	ND		5.0	0.76	ug/L		09/29/22 09:05	09/30/22 22:28	1
Phenanthrene	ND		5.0	0.44	ug/L		09/29/22 09:05	09/30/22 22:28	1
Pyrene	ND		5.0	0.34	ug/L		09/29/22 09:05	09/30/22 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		48 - 120	09/29/22 09:05	09/30/22 22:28	1
Nitrobenzene-d5 (Surr)	64		46 - 120	09/29/22 09:05	09/30/22 22:28	1
p-Terphenyl-d14 (Surr)	72		60 - 148	09/29/22 09:05	09/30/22 22:28	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	36000		5000	5000	ug/L			10/03/22 15:33	1
Ethane	ND		7.5	1.5	ug/L			09/28/22 17:54	1
Ethene	ND		7.0	1.5	ug/L			09/28/22 17:54	1
Methane	ND		4.0	1.0	ug/L			09/28/22 17:54	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		09/28/22 09:23	09/29/22 02:48	1
Magnesium	126		0.20	0.043	mg/L		09/28/22 09:23	09/29/22 02:48	1
Manganese	0.011	B	0.0030	0.00040	mg/L		09/28/22 09:23	09/29/22 02:48	1
Potassium	27.0		0.50	0.10	mg/L		09/28/22 09:23	09/29/22 02:48	1
Sodium	1820		5.0	1.6	mg/L		09/28/22 09:23	09/29/22 17:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	4160		25.0	14.1	mg/L			10/01/22 02:47	50
Sulfate (MCAWW 300.0)	1480		100	17.5	mg/L			10/01/22 02:47	50
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			09/29/22 08:35	1
Nitrate (EPA 353.2)	0.20		0.050	0.020	mg/L			09/27/22 17:54	1
Nitrate Nitrite as N (MCAWW 353.2)	0.20		0.050	0.020	mg/L			09/27/22 17:54	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/27/22 20:12	1
Total Organic Carbon (SW846 9060A)	3.3		1.0	0.43	mg/L			10/02/22 08:39	1
Total Alkalinity (SM 2320B)	274	H	5.0	0.79	mg/L			10/11/22 11:50	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/28/22 10:20	1

Client Sample ID: MW-10-3-092622

Lab Sample ID: 480-202047-3

Date Collected: 09/26/22 11:17

Matrix: Water

Date Received: 09/26/22 15:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0		1.0	0.81	ug/L			09/28/22 02:54	1
Tetrachloroethene	2.9	F1	1.0	0.36	ug/L			09/28/22 02:54	1
trans-1,2-Dichloroethene	ND	F1	1.0	0.90	ug/L			09/28/22 02:54	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-10-3-092622

Lab Sample ID: 480-202047-3

Date Collected: 09/26/22 11:17

Matrix: Water

Date Received: 09/26/22 15:20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	4.5	F1	1.0	0.46	ug/L			09/28/22 02:54	1
Vinyl chloride	ND	F1 F2	1.0	0.90	ug/L			09/28/22 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					09/28/22 02:54	1
4-Bromofluorobenzene (Surr)	101		73 - 120					09/28/22 02:54	1
Toluene-d8 (Surr)	92		80 - 120					09/28/22 02:54	1
Dibromofluoromethane (Surr)	97		75 - 123					09/28/22 02:54	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	18000		5000	5000	ug/L			10/03/22 15:41	1
Ethane	ND		7.5	1.5	ug/L			09/27/22 16:00	1
Ethene	ND		7.0	1.5	ug/L			09/27/22 16:00	1
Methane	ND		4.0	1.0	ug/L			09/27/22 16:00	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.035	J	0.050	0.019	mg/L		09/28/22 09:23	09/29/22 03:04	1
Magnesium	27.0	F1	0.20	0.043	mg/L		09/28/22 09:23	09/29/22 03:04	1
Manganese	0.0014	J B	0.0030	0.00040	mg/L		09/28/22 09:23	09/29/22 03:04	1
Potassium	6.8	F1	0.50	0.10	mg/L		09/28/22 09:23	09/29/22 03:04	1
Sodium	136		1.0	0.32	mg/L		09/28/22 09:23	09/29/22 03:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	104		2.5	1.4	mg/L			09/30/22 23:01	5
Sulfate (MCAWW 300.0)	163		10.0	1.7	mg/L			09/30/22 23:01	5
Ammonia (MCAWW 350.1)	ND	F1	0.020	0.0090	mg/L			09/29/22 08:37	1
Nitrate (EPA 353.2)	0.28		0.050	0.020	mg/L			09/27/22 17:48	1
Nitrate Nitrite as N (MCAWW 353.2)	0.28	F1	0.050	0.020	mg/L			09/27/22 17:48	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/27/22 20:36	1
Total Organic Carbon (SW846 9060A)	1.2		1.0	0.43	mg/L			10/02/22 10:08	1
Total Alkalinity (SM 2320B)	150		5.0	0.79	mg/L			10/10/22 18:11	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/28/22 10:20	1

Client Sample ID: MW-8-1-092722

Lab Sample ID: 480-202074-1

Date Collected: 09/27/22 14:29

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L			09/29/22 03:52	1
Tetrachloroethene	ND	+	1.0	0.36	ug/L			09/29/22 03:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/29/22 03:52	1
Trichloroethene	0.76	J	1.0	0.46	ug/L			09/29/22 03:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/29/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					09/29/22 03:52	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-1-092722

Lab Sample ID: 480-202074-1

Date Collected: 09/27/22 14:29

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120		09/29/22 03:52	1
Toluene-d8 (Surr)	90		80 - 120		09/29/22 03:52	1
Dibromofluoromethane (Surr)	100		75 - 123		09/29/22 03:52	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	66000		5000	5000	ug/L			10/04/22 11:41	1
Ethane	ND		83	17	ug/L			09/28/22 16:01	11
Ethene	ND		77	17	ug/L			09/28/22 16:01	11
Methane	160		44	11	ug/L			09/28/22 16:01	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.031	J	0.050	0.019	mg/L		09/29/22 09:07	09/29/22 18:34	1
Magnesium	124		0.20	0.043	mg/L		09/29/22 09:07	09/29/22 18:34	1
Manganese	0.11		0.0030	0.00040	mg/L		09/29/22 09:07	09/29/22 18:34	1
Potassium	19.8		0.50	0.10	mg/L		09/29/22 09:07	09/29/22 18:34	1
Sodium	618		1.0	0.32	mg/L		09/29/22 09:07	09/29/22 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1500		10.0	5.6	mg/L			10/01/22 08:00	20
Sulfate (MCAWW 300.0)	999		40.0	7.0	mg/L			10/01/22 08:00	20
Ammonia (MCAWW 350.1)	1.0		0.020	0.0090	mg/L			09/29/22 08:31	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:56	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:56	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:56	1
Total Organic Carbon (SW846 9060A)	0.90	J	1.0	0.43	mg/L			10/18/22 18:13	1
Total Alkalinity (SM 2320B)	20.0		5.0	0.79	mg/L			10/11/22 11:19	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: MW-8-2-092722

Lab Sample ID: 480-202074-2

Date Collected: 09/27/22 12:58

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	6500		200	160	ug/L			09/29/22 04:15	200
Tetrachloroethene	ND	*+	200	72	ug/L			09/29/22 04:15	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			09/29/22 04:15	200
Trichloroethene	ND		200	92	ug/L			09/29/22 04:15	200
Vinyl chloride	3000		200	180	ug/L			09/29/22 04:15	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/29/22 04:15	200
4-Bromofluorobenzene (Surr)	93		73 - 120		09/29/22 04:15	200
Toluene-d8 (Surr)	88		80 - 120		09/29/22 04:15	200
Dibromofluoromethane (Surr)	97		75 - 123		09/29/22 04:15	200

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-2-092722

Lab Sample ID: 480-202074-2

Date Collected: 09/27/22 12:58

Matrix: Water

Date Received: 09/27/22 17:10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	50000		5000	5000	ug/L			10/04/22 11:50	1
Ethane	ND		83	17	ug/L			09/28/22 16:20	11
Ethene	ND		77	17	ug/L			09/28/22 16:20	11
Methane	470		44	11	ug/L			09/28/22 16:20	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36		0.050	0.019	mg/L		09/29/22 09:07	09/29/22 18:54	1
Magnesium	49.3		0.20	0.043	mg/L		09/29/22 09:07	09/29/22 18:54	1
Manganese	0.025		0.0030	0.00040	mg/L		09/29/22 09:07	09/29/22 18:54	1
Potassium	15.9		0.50	0.10	mg/L		09/29/22 09:07	09/29/22 18:54	1
Sodium	233		1.0	0.32	mg/L		09/29/22 09:07	09/29/22 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	477		5.0	2.8	mg/L			10/01/22 08:11	10
Sulfate (MCAWW 300.0)	229		20.0	3.5	mg/L			10/01/22 08:11	10
Ammonia (MCAWW 350.1)	0.71		0.020	0.0090	mg/L			09/29/22 08:32	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:53	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:53	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:53	1
Total Organic Carbon (SW846 9060A)	1.4		1.0	0.43	mg/L			10/18/22 18:42	1
Total Alkalinity (SM 2320B)	354		5.0	0.79	mg/L			10/10/22 17:56	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: DUPLICATE-1

Lab Sample ID: 480-202074-3

Date Collected: 09/27/22 16:30

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	7800		200	160	ug/L			09/29/22 04:37	200
Tetrachloroethene	ND	+	200	72	ug/L			09/29/22 04:37	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			09/29/22 04:37	200
Trichloroethene	ND		200	92	ug/L			09/29/22 04:37	200
Vinyl chloride	2500		200	180	ug/L			09/29/22 04:37	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					09/29/22 04:37	200
4-Bromofluorobenzene (Surr)	93		73 - 120					09/29/22 04:37	200
Toluene-d8 (Surr)	88		80 - 120					09/29/22 04:37	200
Dibromofluoromethane (Surr)	98		75 - 123					09/29/22 04:37	200

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	54000		5000	5000	ug/L			10/04/22 11:59	1
Ethane	ND		83	17	ug/L			09/28/22 16:39	11
Ethene	ND		77	17	ug/L			09/28/22 16:39	11
Methane	530		44	11	ug/L			09/28/22 16:39	11

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: DUPLICATE-1

Lab Sample ID: 480-202074-3

Date Collected: 09/27/22 16:30

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.35		0.050	0.019	mg/L		09/29/22 09:07	09/29/22 18:58	1
Magnesium	49.8		0.20	0.043	mg/L		09/29/22 09:07	09/29/22 18:58	1
Manganese	0.024		0.0030	0.00040	mg/L		09/29/22 09:07	09/29/22 18:58	1
Potassium	16.0		0.50	0.10	mg/L		09/29/22 09:07	09/29/22 18:58	1
Sodium	234		1.0	0.32	mg/L		09/29/22 09:07	09/29/22 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	482		5.0	2.8	mg/L			10/01/22 08:22	10
Sulfate (MCAWW 300.0)	228		20.0	3.5	mg/L			10/01/22 08:22	10
Ammonia (MCAWW 350.1)	0.70		0.020	0.0090	mg/L			09/29/22 08:33	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:51	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:51	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/28/22 18:51	1
Total Organic Carbon (SW846 9060A)	1.4		1.0	0.43	mg/L			10/18/22 19:10	1
Total Alkalinity (SM 2320B)	361	F1	5.0	0.79	mg/L			10/10/22 17:49	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202074-4

Date Collected: 09/27/22 00:00

Matrix: Water

Date Received: 09/27/22 17:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/29/22 04:59	1
Tetrachloroethene	ND	+	1.0	0.36	ug/L			09/29/22 04:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/29/22 04:59	1
Trichloroethene	ND		1.0	0.46	ug/L			09/29/22 04:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/29/22 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					09/29/22 04:59	1
4-Bromofluorobenzene (Surr)	93		73 - 120					09/29/22 04:59	1
Toluene-d8 (Surr)	85		80 - 120					09/29/22 04:59	1
Dibromofluoromethane (Surr)	101		75 - 123					09/29/22 04:59	1

Client Sample ID: MW-8-3-092822

Lab Sample ID: 480-202115-1

Date Collected: 09/28/22 13:45

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	9.3		2.0	1.6	ug/L			09/30/22 21:04	2
Tetrachloroethene	ND	+	2.0	0.72	ug/L			09/30/22 21:04	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/30/22 21:04	2
Trichloroethene	2.8		2.0	0.92	ug/L			09/30/22 21:04	2
Vinyl chloride	25		2.0	1.8	ug/L			09/30/22 21:04	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120					09/30/22 21:04	2

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-3-092822

Lab Sample ID: 480-202115-1

Date Collected: 09/28/22 13:45

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		73 - 120		09/30/22 21:04	2
Toluene-d8 (Surr)	85		80 - 120		09/30/22 21:04	2
Dibromofluoromethane (Surr)	95		75 - 123		09/30/22 21:04	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	91000		5000	5000	ug/L			10/05/22 13:33	1
Ethane	8.0		7.5	1.5	ug/L			09/29/22 11:15	1
Ethene	ND		7.0	1.5	ug/L			09/29/22 11:15	1
Methane	94		4.0	1.0	ug/L			09/29/22 11:15	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.084		0.050	0.019	mg/L		09/29/22 16:05	09/30/22 16:10	1
Magnesium	49.3		0.20	0.043	mg/L		09/29/22 16:05	09/30/22 16:10	1
Manganese	6.0		0.0030	0.00040	mg/L		09/29/22 16:05	09/30/22 16:10	1
Potassium	412		0.50	0.10	mg/L		09/29/22 16:05	09/30/22 16:10	1
Sodium	301		1.0	0.32	mg/L		09/29/22 16:05	09/30/22 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1780		10.0	5.6	mg/L			10/04/22 06:55	20
Sulfate (MCAWW 300.0)	70.0		40.0	7.0	mg/L			10/04/22 06:55	20
Ammonia (MCAWW 350.1)	5.6		0.10	0.045	mg/L			09/30/22 10:57	5
Nitrate (EPA 353.2)	0.10		0.050	0.020	mg/L			09/29/22 21:08	1
Nitrate Nitrite as N (MCAWW 353.2)	0.10		0.050	0.020	mg/L			09/29/22 21:08	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/30/22 00:30	1
Total Organic Carbon (SW846 9060A)	9.8		1.0	0.43	mg/L			10/18/22 16:18	1
Total Alkalinity (SM 2320B)	330		5.0	0.79	mg/L			10/11/22 11:35	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: MW-8-4-092822

Lab Sample ID: 480-202115-2

Date Collected: 09/28/22 11:45

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	27		2.0	1.6	ug/L			09/30/22 21:27	2
Tetrachloroethene	ND	*+	2.0	0.72	ug/L			09/30/22 21:27	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/30/22 21:27	2
Trichloroethene	5.9		2.0	0.92	ug/L			09/30/22 21:27	2
Vinyl chloride	10		2.0	1.8	ug/L			09/30/22 21:27	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/30/22 21:27	2
4-Bromofluorobenzene (Surr)	89		73 - 120		09/30/22 21:27	2
Toluene-d8 (Surr)	83		80 - 120		09/30/22 21:27	2
Dibromofluoromethane (Surr)	93		75 - 123		09/30/22 21:27	2

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-4-092822

Lab Sample ID: 480-202115-2

Date Collected: 09/28/22 11:45

Matrix: Water

Date Received: 09/28/22 15:40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/05/22 13:42	1
Ethane	ND		7.5	1.5	ug/L			09/29/22 11:34	1
Ethene	ND		7.0	1.5	ug/L			09/29/22 11:34	1
Methane	150		4.0	1.0	ug/L			09/29/22 11:34	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.38		0.050	0.019	mg/L		09/29/22 16:05	09/30/22 16:42	1
Magnesium	37.7		0.20	0.043	mg/L		09/29/22 16:05	09/30/22 16:42	1
Manganese	0.25		0.0030	0.00040	mg/L		09/29/22 16:05	09/30/22 16:42	1
Potassium	9.6		0.50	0.10	mg/L		09/29/22 16:05	09/30/22 16:42	1
Sodium	1210		5.0	1.6	mg/L		09/29/22 16:05	10/03/22 20:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	2320		10.0	5.6	mg/L			10/04/22 07:15	20
Sulfate (MCAWW 300.0)	178		40.0	7.0	mg/L			10/04/22 07:15	20
Ammonia (MCAWW 350.1)	0.069		0.020	0.0090	mg/L			09/30/22 09:12	1
Nitrate (EPA 353.2)	0.028	J	0.050	0.020	mg/L			09/29/22 21:05	1
Nitrate Nitrite as N (MCAWW 353.2)	0.056	F1	0.050	0.020	mg/L			09/29/22 21:05	1
Nitrite (MCAWW 353.2)	0.028	J F1	0.050	0.020	mg/L			09/30/22 00:27	1
Total Organic Carbon (SW846 9060A)	2.4		1.0	0.43	mg/L			10/18/22 17:16	1
Total Alkalinity (SM 2320B)	145		5.0	0.79	mg/L			10/10/22 18:02	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: MW-8-003-B-092822

Lab Sample ID: 480-202115-3

Date Collected: 09/28/22 09:23

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	870		50	41	ug/L			10/07/22 18:51	50
Tetrachloroethene	2100		50	18	ug/L			10/07/22 18:51	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			10/07/22 18:51	50
Trichloroethene	350		50	23	ug/L			10/07/22 18:51	50
Vinyl chloride	ND		50	45	ug/L			10/07/22 18:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		10/07/22 18:51	50
4-Bromofluorobenzene (Surr)	100		73 - 120		10/07/22 18:51	50
Toluene-d8 (Surr)	96		80 - 120		10/07/22 18:51	50
Dibromofluoromethane (Surr)	99		75 - 123		10/07/22 18:51	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	10000		5000	5000	ug/L			10/05/22 13:53	1
Ethane	ND		7.5	1.5	ug/L			09/29/22 11:53	1
Ethene	3.8	J	7.0	1.5	ug/L			09/29/22 11:53	1
Methane	5.6		4.0	1.0	ug/L			09/29/22 11:53	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-003-B-092822

Lab Sample ID: 480-202115-3

Date Collected: 09/28/22 09:23

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.050	0.019	mg/L		09/29/22 16:05	09/30/22 16:46	1
Magnesium	19.1		0.20	0.043	mg/L		09/29/22 16:05	09/30/22 16:46	1
Manganese	0.31		0.0030	0.00040	mg/L		09/29/22 16:05	09/30/22 16:46	1
Potassium	10.5		0.50	0.10	mg/L		09/29/22 16:05	09/30/22 16:46	1
Sodium	2460		5.0	1.6	mg/L		09/29/22 16:05	10/03/22 20:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	6110		50.0	28.2	mg/L			10/04/22 07:34	100
Sulfate (MCAWW 300.0)	198	J	200	34.9	mg/L			10/04/22 07:34	100
Ammonia (MCAWW 350.1)	0.042		0.020	0.0090	mg/L			09/30/22 09:18	1
Nitrate (EPA 353.2)	0.30		0.050	0.020	mg/L			09/29/22 21:11	1
Nitrate Nitrite as N (MCAWW 353.2)	0.32		0.050	0.020	mg/L			09/29/22 21:11	1
Nitrite (MCAWW 353.2)	0.024	J	0.050	0.020	mg/L			09/30/22 00:32	1
Total Organic Carbon (SW846 9060A)	2.2		1.0	0.43	mg/L			10/18/22 20:37	1
Total Alkalinity (SM 2320B)	307		5.0	0.79	mg/L			10/11/22 11:28	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202115-4

Date Collected: 09/28/22 00:00

Matrix: Water

Date Received: 09/28/22 15:40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/30/22 22:12	1
Tetrachloroethene	ND	+	1.0	0.36	ug/L			09/30/22 22:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/30/22 22:12	1
Trichloroethene	ND		1.0	0.46	ug/L			09/30/22 22:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/30/22 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					09/30/22 22:12	1
4-Bromofluorobenzene (Surr)	84		73 - 120					09/30/22 22:12	1
Toluene-d8 (Surr)	84		80 - 120					09/30/22 22:12	1
Dibromofluoromethane (Surr)	86		75 - 123					09/30/22 22:12	1

Client Sample ID: MW-6-1-092922

Lab Sample ID: 480-202161-1

Date Collected: 09/29/22 11:00

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/04/22 17:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/04/22 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/04/22 17:03	1
Trichloroethene	ND		1.0	0.46	ug/L			10/04/22 17:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/04/22 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120					10/04/22 17:03	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-6-1-092922

Lab Sample ID: 480-202161-1

Date Collected: 09/29/22 11:00

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		73 - 120		10/04/22 17:03	1
Toluene-d8 (Surr)	83		80 - 120		10/04/22 17:03	1
Dibromofluoromethane (Surr)	90		75 - 123		10/04/22 17:03	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	130000		5000	5000	ug/L			10/05/22 14:38	1
Ethane	ND		7.5	1.5	ug/L			09/30/22 12:23	1
Ethene	ND		7.0	1.5	ug/L			09/30/22 12:23	1
Methane	2.0	J	4.0	1.0	ug/L			09/30/22 12:23	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25.9		0.050	0.019	mg/L		10/03/22 09:39	10/03/22 18:44	1
Magnesium	68.7		0.20	0.043	mg/L		10/03/22 09:39	10/03/22 18:44	1
Manganese	5.8	B	0.0030	0.00040	mg/L		10/03/22 09:39	10/03/22 18:44	1
Potassium	5.9		0.50	0.10	mg/L		10/03/22 09:39	10/03/22 18:44	1
Sodium	642		1.0	0.32	mg/L		10/03/22 09:39	10/03/22 18:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1360		10.0	5.6	mg/L			10/05/22 06:49	20
Sulfate (MCAWW 300.0)	30.1	J	40.0	7.0	mg/L			10/05/22 06:49	20
Ammonia (MCAWW 350.1)	2.0		0.020	0.0090	mg/L			09/30/22 10:48	1
Nitrate (EPA 353.2)	0.091		0.050	0.020	mg/L			09/29/22 22:50	1
Nitrate Nitrite as N (MCAWW 353.2)	0.091	B	0.050	0.020	mg/L			09/29/22 22:50	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/30/22 01:51	1
Total Organic Carbon (SW846 9060A)	9.3		1.0	0.43	mg/L			10/18/22 21:05	1
Total Alkalinity (SM 2320B)	504		5.0	0.79	mg/L			10/11/22 14:52	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/03/22 11:10	1

Client Sample ID: MW-6-2-092922

Lab Sample ID: 480-202161-2

Date Collected: 09/29/22 09:35

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/04/22 17:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/04/22 17:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/04/22 17:25	1
Trichloroethene	ND		1.0	0.46	ug/L			10/04/22 17:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/04/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					10/04/22 17:25	1
4-Bromofluorobenzene (Surr)	89		73 - 120					10/04/22 17:25	1
Toluene-d8 (Surr)	82		80 - 120					10/04/22 17:25	1
Dibromofluoromethane (Surr)	96		75 - 123					10/04/22 17:25	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-6-2-092922

Lab Sample ID: 480-202161-2

Date Collected: 09/29/22 09:35

Matrix: Water

Date Received: 09/29/22 14:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	42000		5000	5000	ug/L			10/05/22 14:47	1
Ethane	ND		7.5	1.5	ug/L			09/30/22 12:45	1
Ethene	ND		7.0	1.5	ug/L			09/30/22 12:45	1
Methane	280		4.0	1.0	ug/L			09/30/22 12:45	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.039	J	0.050	0.019	mg/L		10/03/22 09:39	10/03/22 18:48	1
Magnesium	48.0		0.20	0.043	mg/L		10/03/22 09:39	10/03/22 18:48	1
Manganese	0.32	B	0.0030	0.00040	mg/L		10/03/22 09:39	10/03/22 18:48	1
Potassium	5.8		0.50	0.10	mg/L		10/03/22 09:39	10/03/22 18:48	1
Sodium	520		1.0	0.32	mg/L		10/03/22 09:39	10/03/22 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1020		5.0	2.8	mg/L			10/05/22 07:08	10
Sulfate (MCAWW 300.0)	114		20.0	3.5	mg/L			10/05/22 07:08	10
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			09/30/22 10:51	1
Nitrate (EPA 353.2)	0.022	J	0.050	0.020	mg/L			09/29/22 22:51	1
Nitrate Nitrite as N (MCAWW 353.2)	0.022	J B	0.050	0.020	mg/L			09/29/22 22:51	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/29/22 22:51	1
Total Organic Carbon (SW846 9060A)	2.4		1.0	0.43	mg/L			10/18/22 21:34	1
Total Alkalinity (SM 2320B)	379		5.0	0.79	mg/L			10/10/22 18:18	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/03/22 11:10	1

Client Sample ID: MW-6-F-8-092922

Lab Sample ID: 480-202161-3

Date Collected: 09/29/22 12:00

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/04/22 17:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/04/22 17:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/04/22 17:48	1
Trichloroethene	ND		1.0	0.46	ug/L			10/04/22 17:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/04/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					10/04/22 17:48	1
4-Bromofluorobenzene (Surr)	88		73 - 120					10/04/22 17:48	1
Toluene-d8 (Surr)	82		80 - 120					10/04/22 17:48	1
Dibromofluoromethane (Surr)	91		75 - 123					10/04/22 17:48	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	63000		5000	5000	ug/L			10/05/22 14:57	1
Ethane	ND		7.5	1.5	ug/L			09/30/22 13:03	1
Ethene	ND		7.0	1.5	ug/L			09/30/22 13:03	1
Methane	ND		4.0	1.0	ug/L			09/30/22 13:03	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-6-F-8-092922

Lab Sample ID: 480-202161-3

Date Collected: 09/29/22 12:00

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.033	J	0.050	0.019	mg/L		10/03/22 09:39	10/03/22 18:52	1
Magnesium	87.5		0.20	0.043	mg/L		10/03/22 09:39	10/03/22 18:52	1
Manganese	0.21	B	0.0030	0.00040	mg/L		10/03/22 09:39	10/03/22 18:52	1
Potassium	4.0		0.50	0.10	mg/L		10/03/22 09:39	10/03/22 18:52	1
Sodium	1240		5.0	1.6	mg/L		10/03/22 09:39	10/04/22 16:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	2160		10.0	5.6	mg/L			10/05/22 07:28	20
Sulfate (MCAWW 300.0)	281		40.0	7.0	mg/L			10/05/22 07:28	20
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			09/30/22 10:52	1
Nitrate (EPA 353.2)	0.046	J	0.050	0.020	mg/L			09/29/22 22:52	1
Nitrate Nitrite as N (MCAWW 353.2)	0.046	J B	0.050	0.020	mg/L			09/29/22 22:52	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			09/29/22 22:52	1
Total Organic Carbon (SW846 9060A)	1.3		1.0	0.43	mg/L			10/18/22 22:02	1
Total Alkalinity (SM 2320B)	454		5.0	0.79	mg/L			10/10/22 18:27	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/03/22 11:10	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202161-4

Date Collected: 09/29/22 00:00

Matrix: Water

Date Received: 09/29/22 14:45

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/04/22 18:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/04/22 18:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/04/22 18:10	1
Trichloroethene	ND		1.0	0.46	ug/L			10/04/22 18:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/04/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120					10/04/22 18:10	1
4-Bromofluorobenzene (Surr)	85		73 - 120					10/04/22 18:10	1
Toluene-d8 (Surr)	86		80 - 120					10/04/22 18:10	1
Dibromofluoromethane (Surr)	93		75 - 123					10/04/22 18:10	1

Client Sample ID: MW-10-2-100322

Lab Sample ID: 480-202255-1

Date Collected: 10/03/22 14:20

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	21		1.0	0.81	ug/L			10/12/22 13:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/22 13:17	1
trans-1,2-Dichloroethene	1.6		1.0	0.90	ug/L			10/12/22 13:17	1
Trichloroethene	0.65	J	1.0	0.46	ug/L			10/12/22 13:17	1
Vinyl chloride	23		1.0	0.90	ug/L			10/12/22 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120					10/12/22 13:17	1

Eurofins Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-10-2-100322

Lab Sample ID: 480-202255-1

Date Collected: 10/03/22 14:20

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		73 - 120		10/12/22 13:17	1
Toluene-d8 (Surr)	94		80 - 120		10/12/22 13:17	1
Dibromofluoromethane (Surr)	98		75 - 123		10/12/22 13:17	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	21000		5000	5000	ug/L			10/07/22 16:10	1
Ethane	ND		83	17	ug/L			10/04/22 13:55	11
Ethene	38	J	77	17	ug/L			10/04/22 13:55	11
Methane	120		44	11	ug/L			10/04/22 13:55	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.61		0.050	0.019	mg/L		10/05/22 08:56	10/05/22 21:22	1
Magnesium	53.8		0.20	0.043	mg/L		10/05/22 08:56	10/05/22 21:22	1
Manganese	0.17		0.0030	0.00040	mg/L		10/05/22 08:56	10/05/22 21:22	1
Potassium	8.6		0.50	0.10	mg/L		10/05/22 08:56	10/05/22 21:22	1
Sodium	1220		5.0	1.6	mg/L		10/05/22 08:56	10/07/22 00:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	3680		10.0	5.6	mg/L			10/06/22 13:59	20
Sulfate (MCAWW 300.0)	305		40.0	7.0	mg/L			10/06/22 13:59	20
Ammonia (MCAWW 350.1)	0.26	B	0.020	0.0090	mg/L			10/06/22 08:31	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:46	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:46	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:46	1
Total Organic Carbon (SW846 9060A)	1.7		1.0	0.43	mg/L			10/18/22 22:59	1
Total Alkalinity (SM 2320B)	286	F1 B ^2	5.0	0.79	mg/L			10/15/22 17:22	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/06/22 10:44	1

Client Sample ID: TK-6-100322

Lab Sample ID: 480-202255-2

Date Collected: 10/03/22 15:15

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/11/22 16:32	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/11/22 16:32	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/11/22 16:32	2
Trichloroethene	ND		2.0	0.92	ug/L			10/11/22 16:32	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/11/22 16:32	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120					10/11/22 16:32	2
4-Bromofluorobenzene (Surr)	87		73 - 120					10/11/22 16:32	2
Toluene-d8 (Surr)	92		80 - 120					10/11/22 16:32	2
Dibromofluoromethane (Surr)	93		75 - 123					10/11/22 16:32	2

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: TK-6-100322

Lab Sample ID: 480-202255-2

Date Collected: 10/03/22 15:15

Matrix: Water

Date Received: 10/03/22 18:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	34000		5000	5000	ug/L			10/07/22 16:19	1
Ethane	ND		7.5	1.5	ug/L			10/04/22 22:47	1
Ethene	ND		7.0	1.5	ug/L			10/04/22 22:47	1
Methane	ND		4.0	1.0	ug/L			10/04/22 22:47	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/05/22 08:56	10/05/22 21:26	1
Magnesium	87.8		0.20	0.043	mg/L		10/05/22 08:56	10/05/22 21:26	1
Manganese	0.0013	J	0.0030	0.00040	mg/L		10/05/22 08:56	10/05/22 21:26	1
Potassium	2.2		0.50	0.10	mg/L		10/05/22 08:56	10/05/22 21:26	1
Sodium	1190		5.0	1.6	mg/L		10/05/22 08:56	10/07/22 00:40	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	2760		50.0	28.2	mg/L			10/11/22 19:20	100
Sulfate (MCAWW 300.0)	142	J	200	34.9	mg/L			10/11/22 19:20	100
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			10/06/22 08:32	1
Nitrate (EPA 353.2)	0.27		0.050	0.020	mg/L			10/04/22 20:47	1
Nitrate Nitrite as N (MCAWW 353.2)	0.27		0.050	0.020	mg/L			10/04/22 20:47	1
Nitrite (MCAWW 353.2)	ND	F1	0.050	0.020	mg/L			10/05/22 00:50	1
Total Organic Carbon (SW846 9060A)	0.63	J	1.0	0.43	mg/L			10/18/22 23:56	1
Total Alkalinity (SM 2320B)	280	B	5.0	0.79	mg/L			10/15/22 19:05	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/06/22 10:44	1

Client Sample ID: BLDG-10-MW-1-100322

Lab Sample ID: 480-202255-3

Date Collected: 10/03/22 16:35

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5000	4100	ug/L			10/12/22 13:39	5000
Tetrachloroethene	140000		5000	1800	ug/L			10/12/22 13:39	5000
trans-1,2-Dichloroethene	ND		5000	4500	ug/L			10/12/22 13:39	5000
Trichloroethene	4300	J	5000	2300	ug/L			10/12/22 13:39	5000
Vinyl chloride	ND		5000	4500	ug/L			10/12/22 13:39	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		77 - 120					10/12/22 13:39	5000
4-Bromofluorobenzene (Surr)	87		73 - 120					10/12/22 13:39	5000
Toluene-d8 (Surr)	90		80 - 120					10/12/22 13:39	5000
Dibromofluoromethane (Surr)	91		75 - 123					10/12/22 13:39	5000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	82000		5000	5000	ug/L			10/07/22 17:05	1
Ethane	ND		7.5	1.5	ug/L			10/04/22 23:06	1
Ethene	4.3	J	7.0	1.5	ug/L			10/04/22 23:06	1
Methane	5.1		4.0	1.0	ug/L			10/04/22 23:06	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: BLDG-10-MW-1-100322

Lab Sample ID: 480-202255-3

Date Collected: 10/03/22 16:35

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2		0.050	0.019	mg/L		10/05/22 08:56	10/05/22 21:30	1
Magnesium	100		0.20	0.043	mg/L		10/05/22 08:56	10/05/22 21:30	1
Manganese	0.66		0.0030	0.00040	mg/L		10/05/22 08:56	10/05/22 21:30	1
Potassium	4.9		0.50	0.10	mg/L		10/05/22 08:56	10/05/22 21:30	1
Sodium	137		1.0	0.32	mg/L		10/05/22 08:56	10/05/22 21:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1090		5.0	2.8	mg/L			10/06/22 14:20	10
Sulfate (MCAWW 300.0)	493		20.0	3.5	mg/L			10/06/22 14:20	10
Ammonia (MCAWW 350.1)	0.16	B F1	0.020	0.0090	mg/L			10/06/22 08:38	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:48	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:48	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:48	1
Total Organic Carbon (SW846 9060A)	4.8		1.0	0.43	mg/L			10/19/22 00:25	1
Total Alkalinity (SM 2320B)	310	B	5.0	0.79	mg/L			10/15/22 18:50	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/06/22 10:44	1

Client Sample ID: DUPLICATE-2

Lab Sample ID: 480-202255-4

Date Collected: 10/03/22 12:05

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5000	4100	ug/L			10/12/22 14:02	5000
Tetrachloroethene	130000		5000	1800	ug/L			10/12/22 14:02	5000
trans-1,2-Dichloroethene	ND		5000	4500	ug/L			10/12/22 14:02	5000
Trichloroethene	4800	J	5000	2300	ug/L			10/12/22 14:02	5000
Vinyl chloride	ND		5000	4500	ug/L			10/12/22 14:02	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120					10/12/22 14:02	5000
4-Bromofluorobenzene (Surr)	83		73 - 120					10/12/22 14:02	5000
Toluene-d8 (Surr)	88		80 - 120					10/12/22 14:02	5000
Dibromofluoromethane (Surr)	95		75 - 123					10/12/22 14:02	5000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	74000		5000	5000	ug/L			10/07/22 17:14	1
Ethane	ND		7.5	1.5	ug/L			10/04/22 23:25	1
Ethene	4.3	J	7.0	1.5	ug/L			10/04/22 23:25	1
Methane	4.6		4.0	1.0	ug/L			10/04/22 23:25	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2		0.050	0.019	mg/L		10/05/22 08:56	10/05/22 21:34	1
Magnesium	101		0.20	0.043	mg/L		10/05/22 08:56	10/05/22 21:34	1
Manganese	0.67		0.0030	0.00040	mg/L		10/05/22 08:56	10/05/22 21:34	1
Potassium	4.9		0.50	0.10	mg/L		10/05/22 08:56	10/05/22 21:34	1
Sodium	139		1.0	0.32	mg/L		10/05/22 08:56	10/05/22 21:34	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: DUPLICATE-2

Lab Sample ID: 480-202255-4

Date Collected: 10/03/22 12:05

Matrix: Water

Date Received: 10/03/22 18:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	725		5.0	2.8	mg/L			10/06/22 15:25	10
Sulfate (MCAWW 300.0)	295		20.0	3.5	mg/L			10/06/22 15:25	10
Ammonia (MCAWW 350.1)	0.15	B	0.020	0.0090	mg/L			10/06/22 08:40	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:50	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:50	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 20:50	1
Total Organic Carbon (SW846 9060A)	5.3		1.0	0.43	mg/L			10/19/22 00:53	1
Total Alkalinity (SM 2320B)	313	B	5.0	0.79	mg/L			10/15/22 18:58	1
Sulfide (SM 4500 S2 F)	0.80	J	1.0	0.67	mg/L			10/06/22 10:44	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202255-5

Date Collected: 10/03/22 00:00

Matrix: Water

Date Received: 10/03/22 18:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/22 17:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/22 17:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/22 17:39	1
Trichloroethene	ND		1.0	0.46	ug/L			10/11/22 17:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120					10/11/22 17:39	1
4-Bromofluorobenzene (Surr)	86		73 - 120					10/11/22 17:39	1
Toluene-d8 (Surr)	93		80 - 120					10/11/22 17:39	1
Dibromofluoromethane (Surr)	92		75 - 123					10/11/22 17:39	1

Client Sample ID: MW-7-2-100422

Lab Sample ID: 480-202304-1

Date Collected: 10/04/22 12:30

Matrix: Water

Date Received: 10/04/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/22 14:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/22 14:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/22 14:24	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/22 14:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					10/12/22 14:24	1
4-Bromofluorobenzene (Surr)	87		73 - 120					10/12/22 14:24	1
Toluene-d8 (Surr)	90		80 - 120					10/12/22 14:24	1
Dibromofluoromethane (Surr)	94		75 - 123					10/12/22 14:24	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		5000	5000	ug/L			10/07/22 17:23	1
Ethane	ND		7.5	1.5	ug/L			10/04/22 23:44	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-2-100422

Lab Sample ID: 480-202304-1

Date Collected: 10/04/22 12:30

Matrix: Water

Date Received: 10/04/22 14:00

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		7.0	1.5	ug/L			10/04/22 23:44	1
Methane	ND		4.0	1.0	ug/L			10/04/22 23:44	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.032	J	0.050	0.019	mg/L		10/05/22 15:59	10/07/22 04:16	1
Magnesium	50.6		0.20	0.043	mg/L		10/05/22 15:59	10/07/22 04:16	1
Manganese	0.014	B	0.0030	0.00040	mg/L		10/05/22 15:59	10/07/22 04:16	1
Potassium	2.2		0.50	0.10	mg/L		10/05/22 15:59	10/07/22 04:16	1
Sodium	211		1.0	0.32	mg/L		10/05/22 15:59	10/07/22 04:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	432		2.5	1.4	mg/L			10/08/22 02:55	5
Sulfate (MCAWW 300.0)	47.0		10.0	1.7	mg/L			10/08/22 02:55	5
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			10/06/22 09:12	1
Nitrate (EPA 353.2)	0.028	J	0.050	0.020	mg/L			10/04/22 22:25	1
Nitrate Nitrite as N (MCAWW 353.2)	0.028	J	0.050	0.020	mg/L			10/04/22 22:25	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:25	1
Total Organic Carbon (SW846 9060A)	2.3		1.0	0.43	mg/L			10/07/22 06:07	1
Total Alkalinity (SM 2320B)	362	B	5.0	0.79	mg/L			10/15/22 19:14	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: MW-7-C-2-100422

Lab Sample ID: 480-202304-2

Date Collected: 10/04/22 10:00

Matrix: Water

Date Received: 10/04/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	300		10	8.1	ug/L			10/12/22 14:46	10
Tetrachloroethene	ND		10	3.6	ug/L			10/12/22 14:46	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/12/22 14:46	10
Trichloroethene	ND		10	4.6	ug/L			10/12/22 14:46	10
Vinyl chloride	140		10	9.0	ug/L			10/12/22 14:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		10/12/22 14:46	10
4-Bromofluorobenzene (Surr)	88		73 - 120		10/12/22 14:46	10
Toluene-d8 (Surr)	90		80 - 120		10/12/22 14:46	10
Dibromofluoromethane (Surr)	97		75 - 123		10/12/22 14:46	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	11000		5000	5000	ug/L			10/07/22 17:32	1
Ethane	ND		7.5	1.5	ug/L			10/05/22 00:02	1
Ethene	4.2	J	7.0	1.5	ug/L			10/05/22 00:02	1
Methane	220		4.0	1.0	ug/L			10/05/22 00:02	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-C-2-100422

Lab Sample ID: 480-202304-2

Date Collected: 10/04/22 10:00

Matrix: Water

Date Received: 10/04/22 14:00

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.4		0.050	0.019	mg/L		10/05/22 15:59	10/07/22 04:20	1
Magnesium	141		0.20	0.043	mg/L		10/05/22 15:59	10/07/22 04:20	1
Manganese	0.35	B	0.0030	0.00040	mg/L		10/05/22 15:59	10/07/22 04:20	1
Potassium	5.1		0.50	0.10	mg/L		10/05/22 15:59	10/07/22 04:20	1
Sodium	118		1.0	0.32	mg/L		10/05/22 15:59	10/07/22 04:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	151		5.0	2.8	mg/L			10/08/22 04:52	10
Sulfate (MCAWW 300.0)	902		20.0	3.5	mg/L			10/08/22 04:52	10
Ammonia (MCAWW 350.1)	0.16	B	0.020	0.0090	mg/L			10/06/22 09:15	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:19	1
Nitrate Nitrite as N (MCAWW 353.2)	ND	F1	0.050	0.020	mg/L			10/04/22 22:19	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:19	1
Total Organic Carbon (SW846 9060A)	2.7		1.0	0.43	mg/L			10/07/22 07:05	1
Total Alkalinity (SM 2320B)	322	B	5.0	0.79	mg/L			10/15/22 19:23	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: MW-7-7-100422

Lab Sample ID: 480-202304-3

Date Collected: 10/04/22 13:20

Matrix: Water

Date Received: 10/04/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	36000		1000	810	ug/L			10/12/22 15:09	1000
Tetrachloroethene	68000		1000	360	ug/L			10/12/22 15:09	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			10/12/22 15:09	1000
Trichloroethene	17000		1000	460	ug/L			10/12/22 15:09	1000
Vinyl chloride	7200		1000	900	ug/L			10/12/22 15:09	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		77 - 120					10/12/22 15:09	1000
4-Bromofluorobenzene (Surr)	89		73 - 120					10/12/22 15:09	1000
Toluene-d8 (Surr)	89		80 - 120					10/12/22 15:09	1000
Dibromofluoromethane (Surr)	92		75 - 123					10/12/22 15:09	1000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	66000		5000	5000	ug/L			10/07/22 17:41	1
Ethane	ND		330	66	ug/L			10/05/22 00:21	44
Ethene	590		310	66	ug/L			10/05/22 00:21	44
Methane	750		180	44	ug/L			10/05/22 00:21	44

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.092		0.050	0.019	mg/L		10/05/22 15:59	10/07/22 04:24	1
Magnesium	177		0.20	0.043	mg/L		10/05/22 15:59	10/07/22 04:24	1
Manganese	0.037	B	0.0030	0.00040	mg/L		10/05/22 15:59	10/07/22 04:24	1
Potassium	45.0		0.50	0.10	mg/L		10/05/22 15:59	10/07/22 04:24	1
Sodium	1630		5.0	1.6	mg/L		10/05/22 15:59	10/10/22 17:58	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-7-100422

Lab Sample ID: 480-202304-3

Date Collected: 10/04/22 13:20

Matrix: Water

Date Received: 10/04/22 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	4020		50.0	28.2	mg/L			10/08/22 05:12	100
Sulfate (MCAWW 300.0)	422		200	34.9	mg/L			10/08/22 05:12	100
Ammonia (MCAWW 350.1)	3.3	B	0.040	0.018	mg/L			10/06/22 10:18	2
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:22	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:22	1
Nitrite (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/04/22 22:22	1
Total Organic Carbon (SW846 9060A)	8.6		1.0	0.43	mg/L			10/07/22 08:05	1
Total Alkalinity (SM 2320B)	307	B	5.0	0.79	mg/L			10/15/22 20:19	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: Trip Blank-100422

Lab Sample ID: 480-202304-4

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/22 19:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/22 19:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/22 19:31	1
Trichloroethene	ND		1.0	0.46	ug/L			10/11/22 19:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120					10/11/22 19:31	1
4-Bromofluorobenzene (Surr)	86		73 - 120					10/11/22 19:31	1
Toluene-d8 (Surr)	89		80 - 120					10/11/22 19:31	1
Dibromofluoromethane (Surr)	94		75 - 123					10/11/22 19:31	1

Client Sample ID: MW-7-3-100522

Lab Sample ID: 480-202381-1

Date Collected: 10/05/22 16:15

Matrix: Water

Date Received: 10/05/22 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/15/22 12:57	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/15/22 12:57	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/15/22 12:57	2
Trichloroethene	ND		2.0	0.92	ug/L			10/15/22 12:57	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/15/22 12:57	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/15/22 12:57	2
4-Bromofluorobenzene (Surr)	104		73 - 120					10/15/22 12:57	2
Toluene-d8 (Surr)	102		80 - 120					10/15/22 12:57	2
Dibromofluoromethane (Surr)	103		75 - 123					10/15/22 12:57	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	88000		5000	5000	ug/L			10/10/22 14:22	1
Ethane	ND		170	33	ug/L			10/06/22 14:41	22

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-3-100522

Lab Sample ID: 480-202381-1

Date Collected: 10/05/22 16:15

Matrix: Water

Date Received: 10/05/22 17:05

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		150	33	ug/L			10/06/22 14:41	22
Methane	270		88	22	ug/L			10/06/22 14:41	22

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.6		0.050	0.019	mg/L		10/06/22 16:23	10/07/22 19:03	1
Magnesium	147		0.20	0.043	mg/L		10/06/22 16:23	10/07/22 19:03	1
Manganese	0.46	B	0.0030	0.00040	mg/L		10/06/22 16:23	10/07/22 19:03	1
Potassium	35.2		0.50	0.10	mg/L		10/06/22 16:23	10/07/22 19:03	1
Sodium	5070		10.0	3.2	mg/L		10/06/22 16:23	10/10/22 17:46	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	16800		50.0	28.2	mg/L			10/12/22 20:56	100
Sulfate (MCAWW 300.0)	2070		200	34.9	mg/L			10/12/22 20:56	100
Ammonia (MCAWW 350.1)	1.9	B	0.020	0.0090	mg/L			10/06/22 12:44	1
Nitrate (EPA 353.2)	0.14		0.050	0.020	mg/L			10/07/22 01:40	1
Nitrate Nitrite as N (MCAWW 353.2)	0.14		0.050	0.020	mg/L			10/07/22 00:34	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/13/22 23:54	1
Total Organic Carbon (SW846 9060A)	3.9		1.0	0.43	mg/L			10/14/22 21:07	1
Total Alkalinity (SM 2320B)	413	B	5.0	0.79	mg/L			10/15/22 20:29	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: MW-7-5-100522

Lab Sample ID: 480-202381-2

Date Collected: 10/05/22 14:40

Matrix: Water

Date Received: 10/05/22 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	590		100	81	ug/L			10/15/22 13:21	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/15/22 13:21	100
Trichloroethene	860		100	46	ug/L			10/15/22 13:21	100
Vinyl chloride	ND		100	90	ug/L			10/15/22 13:21	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/15/22 13:21	100
4-Bromofluorobenzene (Surr)	99		73 - 120		10/15/22 13:21	100
Toluene-d8 (Surr)	97		80 - 120		10/15/22 13:21	100
Dibromofluoromethane (Surr)	102		75 - 123		10/15/22 13:21	100

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	10000	F1	200	72	ug/L			10/18/22 02:03	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/18/22 02:03	200
4-Bromofluorobenzene (Surr)	97		73 - 120		10/18/22 02:03	200
Toluene-d8 (Surr)	99		80 - 120		10/18/22 02:03	200
Dibromofluoromethane (Surr)	107		75 - 123		10/18/22 02:03	200

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-5-100522

Lab Sample ID: 480-202381-2

Date Collected: 10/05/22 14:40

Matrix: Water

Date Received: 10/05/22 17:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	84000		5000	5000	ug/L			10/10/22 14:31	1
Ethane	ND		7.5	1.5	ug/L			10/06/22 20:34	1
Ethene	ND		7.0	1.5	ug/L			10/06/22 20:34	1
Methane	13		4.0	1.0	ug/L			10/06/22 20:34	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.48		0.050	0.019	mg/L		10/06/22 16:23	10/07/22 19:07	1
Magnesium	99.3		0.20	0.043	mg/L		10/06/22 16:23	10/07/22 19:07	1
Manganese	1.1	B	0.0030	0.00040	mg/L		10/06/22 16:23	10/07/22 19:07	1
Potassium	9.0		0.50	0.10	mg/L		10/06/22 16:23	10/07/22 19:07	1
Sodium	2850		5.0	1.6	mg/L		10/06/22 16:23	10/10/22 17:50	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	9220		50.0	28.2	mg/L			10/12/22 21:07	100
Sulfate (MCAWW 300.0)	800		200	34.9	mg/L			10/12/22 21:07	100
Ammonia (MCAWW 350.1)	ND		0.020	0.0090	mg/L			10/06/22 12:45	1
Nitrate (EPA 353.2)	1.0		0.050	0.020	mg/L			10/07/22 01:40	1
Nitrate Nitrite as N (MCAWW 353.2)	1.0		0.050	0.020	mg/L			10/07/22 00:36	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/13/22 23:56	1
Total Organic Carbon (SW846 9060A)	6.0		1.0	0.43	mg/L			10/14/22 21:36	1
Total Alkalinity (SM 2320B)	347	B	5.0	0.79	mg/L			10/15/22 21:02	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: MW-7-A-6-100522

Lab Sample ID: 480-202381-3

Date Collected: 10/05/22 12:50

Matrix: Water

Date Received: 10/05/22 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	200000		2000	1600	ug/L			10/15/22 13:44	2000
Tetrachloroethene	48000		2000	720	ug/L			10/15/22 13:44	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			10/15/22 13:44	2000
Trichloroethene	8600		2000	920	ug/L			10/15/22 13:44	2000
Vinyl chloride	110000		2000	1800	ug/L			10/15/22 13:44	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					10/15/22 13:44	2000
4-Bromofluorobenzene (Surr)	100		73 - 120					10/15/22 13:44	2000
Toluene-d8 (Surr)	101		80 - 120					10/15/22 13:44	2000
Dibromofluoromethane (Surr)	105		75 - 123					10/15/22 13:44	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	420000	E	5000	5000	ug/L			10/10/22 14:41	1
Ethane	150	J	170	33	ug/L			10/06/22 15:19	22
Methane	2000		88	22	ug/L			10/06/22 15:19	22

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-A-6-100522

Lab Sample ID: 480-202381-3

Date Collected: 10/05/22 12:50

Matrix: Water

Date Received: 10/05/22 17:05

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	400000		10000	10000	ug/L			10/12/22 12:32	2
Ethene	12000		770	170	ug/L			10/06/22 20:53	110

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24.0		0.050	0.019	mg/L		10/06/22 16:23	10/07/22 19:22	1
Magnesium	165		0.20	0.043	mg/L		10/06/22 16:23	10/07/22 19:22	1
Manganese	2.5	B	0.0030	0.00040	mg/L		10/06/22 16:23	10/07/22 19:22	1
Potassium	5.4		0.50	0.10	mg/L		10/06/22 16:23	10/07/22 19:22	1
Sodium	586		1.0	0.32	mg/L		10/06/22 16:23	10/07/22 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	1710		10.0	5.6	mg/L			10/12/22 21:18	20
Sulfate (MCAWW 300.0)	30.1	J	40.0	7.0	mg/L			10/12/22 21:18	20
Ammonia (MCAWW 350.1)	0.086	F1 B	0.020	0.0090	mg/L			10/06/22 12:47	1
Nitrate (EPA 353.2)	0.57		0.050	0.020	mg/L			10/07/22 01:40	1
Nitrate Nitrite as N (MCAWW 353.2)	0.57		0.050	0.020	mg/L			10/07/22 00:37	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/13/22 23:57	1
Total Organic Carbon (SW846 9060A)	40.8		1.0	0.43	mg/L			10/14/22 22:05	1
Total Alkalinity (SM 2320B)	502	B ^2	5.0	0.79	mg/L			10/17/22 21:06	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Client Sample ID: TripBlank-100522

Lab Sample ID: 480-202381-4

Date Collected: 10/05/22 00:00

Matrix: Water

Date Received: 10/05/22 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/22 14:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/22 14:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/22 14:07	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/22 14:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/22 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/15/22 14:07	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/15/22 14:07	1
Toluene-d8 (Surr)	98		80 - 120		10/15/22 14:07	1
Dibromofluoromethane (Surr)	106		75 - 123		10/15/22 14:07	1

Client Sample ID: MW-7-6-100622

Lab Sample ID: 480-202434-1

Date Collected: 10/06/22 10:00

Matrix: Water

Date Received: 10/06/22 15:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	750	F1	10	8.1	ug/L			10/15/22 14:31	10
Tetrachloroethene	630	F1	10	3.6	ug/L			10/15/22 14:31	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/15/22 14:31	10

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-6-100622

Lab Sample ID: 480-202434-1

Date Collected: 10/06/22 10:00

Matrix: Water

Date Received: 10/06/22 15:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	340		10	4.6	ug/L			10/15/22 14:31	10
Vinyl chloride	13		10	9.0	ug/L			10/15/22 14:31	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/15/22 14:31	10
4-Bromofluorobenzene (Surr)	102		73 - 120					10/15/22 14:31	10
Toluene-d8 (Surr)	99		80 - 120					10/15/22 14:31	10
Dibromofluoromethane (Surr)	100		75 - 123					10/15/22 14:31	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		5000	5000	ug/L			10/10/22 14:50	1
Ethane	ND		83	17	ug/L			10/09/22 17:25	11
Ethene	ND		77	17	ug/L			10/09/22 17:25	11
Methane	150		44	11	ug/L			10/09/22 17:25	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.18		0.050	0.019	mg/L		10/11/22 09:02	10/12/22 17:44	1
Magnesium	96.7		0.20	0.043	mg/L		10/11/22 09:02	10/12/22 17:44	1
Manganese	0.32	B	0.0030	0.00040	mg/L		10/11/22 09:02	10/12/22 17:44	1
Potassium	15.1		0.50	0.10	mg/L		10/11/22 09:02	10/12/22 17:44	1
Sodium	3850		10.0	3.2	mg/L		10/11/22 09:02	10/14/22 12:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	12700		50.0	28.2	mg/L			10/16/22 18:06	100
Sulfate (MCAWW 300.0)	714		200	34.9	mg/L			10/16/22 18:06	100
Ammonia (MCAWW 350.1)	0.050	B F1	0.020	0.0090	mg/L			10/11/22 07:20	1
Nitrate (EPA 353.2)	0.058		0.050	0.020	mg/L			10/07/22 17:26	1
Nitrate Nitrite as N (MCAWW 353.2)	0.058	F1	0.050	0.020	mg/L			10/07/22 17:26	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/13/22 22:48	1
Total Organic Carbon (SW846 9060A)	2.8		1.0	0.43	mg/L			10/14/22 23:32	1
Total Alkalinity (SM 2320B)	317	B	5.0	0.79	mg/L			10/15/22 19:45	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/22 11:06	1

Client Sample ID: MW-7-P-1-100622

Lab Sample ID: 480-202434-2

Date Collected: 10/06/22 12:15

Matrix: Water

Date Received: 10/06/22 15:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2.0		2.0	1.6	ug/L			10/15/22 14:54	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/15/22 14:54	2
trans-1,2-Dichloroethene	2.4		2.0	1.8	ug/L			10/15/22 14:54	2
Trichloroethene	ND		2.0	0.92	ug/L			10/15/22 14:54	2
Vinyl chloride	2.3		2.0	1.8	ug/L			10/15/22 14:54	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					10/15/22 14:54	2

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-P-1-100622

Lab Sample ID: 480-202434-2

Date Collected: 10/06/22 12:15

Matrix: Water

Date Received: 10/06/22 15:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		73 - 120		10/15/22 14:54	2
Toluene-d8 (Surr)	100		80 - 120		10/15/22 14:54	2
Dibromofluoromethane (Surr)	103		75 - 123		10/15/22 14:54	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000		5000	5000	ug/L			10/10/22 15:17	1
Ethane	ND		83	17	ug/L			10/09/22 18:46	11
Ethene	ND		77	17	ug/L			10/09/22 18:46	11

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	7100		350	88	ug/L			10/10/22 06:03	88

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	64.6		0.050	0.019	mg/L		10/11/22 09:02	10/12/22 18:15	1
Magnesium	277		0.20	0.043	mg/L		10/11/22 09:02	10/12/22 18:15	1
Manganese	3.5	B	0.0030	0.00040	mg/L		10/11/22 09:02	10/12/22 18:15	1
Potassium	30.4		0.50	0.10	mg/L		10/11/22 09:02	10/12/22 18:15	1
Sodium	173		1.0	0.32	mg/L		10/11/22 09:02	10/12/22 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	3320		25.0	14.1	mg/L			10/16/22 19:21	50
Sulfate (MCAWW 300.0)	25.2	J	100	17.5	mg/L			10/16/22 19:21	50
Ammonia (MCAWW 350.1)	137	B	2.0	0.90	mg/L			10/11/22 09:21	100
Nitrate (EPA 353.2)	0.081		0.050	0.020	mg/L			10/07/22 17:30	1
Nitrate Nitrite as N (MCAWW 353.2)	0.11		0.050	0.020	mg/L			10/07/22 17:30	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/13/22 22:53	1
Total Organic Carbon (SW846 9060A)	4.3		1.0	0.43	mg/L			10/15/22 00:02	1
Total Alkalinity (SM 2320B)	239	B	5.0	0.79	mg/L			10/15/22 19:37	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/22 11:06	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202434-3

Date Collected: 10/06/22 00:00

Matrix: Water

Date Received: 10/06/22 15:55

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/22 15:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/22 15:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/22 15:18	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/22 15:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/15/22 15:18	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/15/22 15:18	1
Toluene-d8 (Surr)	100		80 - 120		10/15/22 15:18	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: TRIP BLANK

Date Collected: 10/06/22 00:00

Date Received: 10/06/22 15:55

Lab Sample ID: 480-202434-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		75 - 123		10/15/22 15:18	1

Client Sample ID: MW-7-8-100722

Date Collected: 10/07/22 09:15

Date Received: 10/07/22 10:00

Lab Sample ID: 480-202483-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	440		10	8.1	ug/L			10/14/22 07:10	10
Tetrachloroethene	820		10	3.6	ug/L			10/14/22 07:10	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/14/22 07:10	10
Trichloroethene	340		10	4.6	ug/L			10/14/22 07:10	10
Vinyl chloride	220		10	9.0	ug/L			10/14/22 07:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/14/22 07:10	10
4-Bromofluorobenzene (Surr)	98		73 - 120		10/14/22 07:10	10
Toluene-d8 (Surr)	100		80 - 120		10/14/22 07:10	10
Dibromofluoromethane (Surr)	100		75 - 123		10/14/22 07:10	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	16000		5000	5000	ug/L			10/13/22 12:43	1
Ethane	1.9	J	7.5	1.5	ug/L			10/10/22 08:15	1
Ethene	2.9	J	7.0	1.5	ug/L			10/10/22 08:15	1
Methane	28		4.0	1.0	ug/L			10/10/22 08:15	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.0		0.050	0.019	mg/L		10/11/22 14:49	10/22/22 11:41	1
Magnesium	199		0.20	0.043	mg/L		10/11/22 14:49	10/22/22 11:41	1
Manganese	0.74	B	0.0030	0.00040	mg/L		10/11/22 14:49	10/22/22 11:41	1
Potassium	43.9		0.50	0.10	mg/L		10/11/22 14:49	10/22/22 11:41	1
Sodium	2250		5.0	1.6	mg/L		10/11/22 14:49	10/22/22 13:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 300.0)	5090		50.0	28.2	mg/L			10/17/22 06:50	100
Sulfate (MCAWW 300.0)	187	J	200	34.9	mg/L			10/17/22 06:50	100
Ammonia (MCAWW 350.1)	0.36	B	0.020	0.0090	mg/L			10/11/22 08:34	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/07/22 18:46	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.050	0.020	mg/L			10/08/22 15:11	1
Nitrite (MCAWW 353.2)	ND	H	0.050	0.020	mg/L			10/14/22 00:38	1
Total Organic Carbon (SW846 9060A)	2.3		1.0	0.43	mg/L			10/14/22 19:40	1
Total Alkalinity (SM 2320B)	127	B	5.0	0.79	mg/L			10/15/22 19:29	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/14/22 10:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202483-2

Date Collected: 10/07/22 00:00

Matrix: Water

Date Received: 10/07/22 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/14/22 07:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/22 07:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/22 07:32	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/22 07:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/22 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/14/22 07:32	1
4-Bromofluorobenzene (Surr)	96		73 - 120		10/14/22 07:32	1
Toluene-d8 (Surr)	101		80 - 120		10/14/22 07:32	1
Dibromofluoromethane (Surr)	103		75 - 123		10/14/22 07:32	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-201913-2	MW-7-1-092222	97	94	91	98
480-201913-3	MW-7-4-092222	101	94	91	99
480-201913-4	Trip Blank-092222	101	95	91	102
480-202047-1	MW-9-12-092622	107	98	90	100
480-202047-2	MW-9-101A-092622	103	99	92	99
480-202047-3	MW-10-3-092622	103	101	92	97
480-202047-3 MS	MW-10-3-092622	103	98	91	100
480-202047-3 MSD	MW-10-3-092622	97	95	91	96
480-202074-1	MW-8-1-092722	100	95	90	100
480-202074-2	MW-8-2-092722	101	93	88	97
480-202074-3	DUPLICATE-1	102	93	88	98
480-202074-4	TRIP BLANK	106	93	85	101
480-202115-1	MW-8-3-092822	95	89	85	95
480-202115-2	MW-8-4-092822	98	89	83	93
480-202115-3	MW-8-003-B-092822	96	100	96	99
480-202115-4	TRIP BLANK	94	84	84	86
480-202161-1	MW-6-1-092922	92	85	83	90
480-202161-2	MW-6-2-092922	94	89	82	96
480-202161-3	MW-6-F-8-092922	93	88	82	91
480-202161-4	TRIP BLANK	92	85	86	93
480-202255-1	MW-10-2-100322	90	91	94	98
480-202255-2	TK-6-100322	91	87	92	93
480-202255-3	BLDG-10-MW-1-100322	86	87	90	91
480-202255-4	DUPLICATE-2	89	83	88	95
480-202255-5	TRIP BLANK	90	86	93	92
480-202304-1	MW-7-2-100422	93	87	90	94
480-202304-2	MW-7-C-2-100422	90	88	90	97
480-202304-3	MW-7-7-100422	85	89	89	92
480-202304-4	Trip Blank-100422	90	86	89	94
480-202381-1	MW-7-3-100522	108	104	102	103
480-202381-2	MW-7-5-100522	104	99	97	102
480-202381-2 - DL	MW-7-5-100522	105	97	99	107
480-202381-2 MS	MW-7-5-100522	107	105	102	105
480-202381-2 MSD	MW-7-5-100522	108	101	99	104
480-202381-3	MW-7-A-6-100522	106	100	101	105
480-202381-4	TripBlank-100522	107	101	98	106
480-202434-1	MW-7-6-100622	105	102	99	100
480-202434-1 MS	MW-7-6-100622	107	101	99	105
480-202434-1 MSD	MW-7-6-100622	105	106	103	104
480-202434-2	MW-7-P-1-100622	109	102	100	103
480-202434-3	TRIP BLANK	104	100	100	100
480-202483-1	MW-7-8-100722	100	98	100	100
480-202483-2	TRIP BLANK	102	96	101	103
LCS 480-642778/6	Lab Control Sample	98	93	87	97
LCS 480-642968/6	Lab Control Sample	102	97	91	100
LCS 480-643152/6	Lab Control Sample	101	97	92	101
LCS 480-643447/5	Lab Control Sample	98	91	86	97
LCS 480-643837/5	Lab Control Sample	92	87	84	91
LCS 480-644494/9	Lab Control Sample	103	104	100	105

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
LCS 480-644817/58	Lab Control Sample	93	90	90	95
LCS 480-644919/9	Lab Control Sample	89	86	91	92
LCS 480-645313/6	Lab Control Sample	100	96	100	101
LCS 480-645608/5	Lab Control Sample	106	100	101	102
LCS 480-645911/6	Lab Control Sample	112	105	102	108
LCSD 480-643152/7	Lab Control Sample Dup	98	97	89	97
LCSD 480-643447/6	Lab Control Sample Dup	100	91	83	98
LCSD 480-644494/34	Lab Control Sample Dup	108	100	98	109
MB 480-642778/8	Method Blank	98	97	88	94
MB 480-642968/8	Method Blank	100	97	91	96
MB 480-643152/9	Method Blank	96	95	89	95
MB 480-643447/8	Method Blank	120	115	103	116
MB 480-643837/7	Method Blank	92	78	78 S1-	91
MB 480-644494/13	Method Blank	99	95	95	102
MB 480-644817/10	Method Blank	89	93	90	89
MB 480-644919/11	Method Blank	86	89	91	88
MB 480-645313/8	Method Blank	100	100	100	99
MB 480-645608/7	Method Blank	102	102	99	99
MB 480-645911/8	Method Blank	105	99	101	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (60-148)
480-202047-1	MW-9-12-092622	98	85	93
480-202047-2	MW-9-101A-092622	78	64	72
LCS 480-643252/2-A	Lab Control Sample	83	72	95
MB 480-643252/1-A	Method Blank	73	64	91

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-642778/8

Matrix: Water

Analysis Batch: 642778

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/26/22 16:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/26/22 16:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/26/22 16:51	1
Trichloroethene	ND		1.0	0.46	ug/L			09/26/22 16:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/26/22 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/26/22 16:51	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/26/22 16:51	1
Toluene-d8 (Surr)	88		80 - 120		09/26/22 16:51	1
Dibromofluoromethane (Surr)	94		75 - 123		09/26/22 16:51	1

Lab Sample ID: LCS 480-642778/6

Matrix: Water

Analysis Batch: 642778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl chloride	25.0	26.2		ug/L		105	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	87		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Lab Sample ID: MB 480-642968/8

Matrix: Water

Analysis Batch: 642968

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/27/22 23:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/27/22 23:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/27/22 23:55	1
Trichloroethene	ND		1.0	0.46	ug/L			09/27/22 23:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/27/22 23:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/27/22 23:55	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/27/22 23:55	1
Toluene-d8 (Surr)	91		80 - 120		09/27/22 23:55	1
Dibromofluoromethane (Surr)	96		75 - 123		09/27/22 23:55	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-642968/6

Matrix: Water

Analysis Batch: 642968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	28.5		ug/L		114	74 - 124
Tetrachloroethene	25.0	26.5		ug/L		106	74 - 122
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	73 - 127
Trichloroethene	25.0	28.4		ug/L		114	74 - 123
Vinyl chloride	25.0	28.7		ug/L		115	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 642968

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	1.0		25.0	32.0		ug/L		124	74 - 124
Tetrachloroethene	2.9	F1	25.0	34.9	F1	ug/L		128	74 - 122
trans-1,2-Dichloroethene	ND	F1	25.0	32.0	F1	ug/L		128	73 - 127
Trichloroethene	4.5	F1	25.0	36.1	F1	ug/L		126	74 - 123
Vinyl chloride	ND	F1 F2	25.0	38.7	F1	ug/L		155	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 642968

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1.0		25.0	29.8		ug/L		115	74 - 124	7	15
Tetrachloroethene	2.9	F1	25.0	33.1		ug/L		121	74 - 122	5	20
trans-1,2-Dichloroethene	ND	F1	25.0	29.8		ug/L		119	73 - 127	7	20
Trichloroethene	4.5	F1	25.0	34.0		ug/L		118	74 - 123	6	16
Vinyl chloride	ND	F1 F2	25.0	30.8	F2	ug/L		123	65 - 133	23	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	96		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-643152/9

Matrix: Water

Analysis Batch: 643152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/29/22 00:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/29/22 00:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/29/22 00:53	1
Trichloroethene	ND		1.0	0.46	ug/L			09/29/22 00:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/29/22 00:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		09/29/22 00:53	1
4-Bromofluorobenzene (Surr)	95		73 - 120		09/29/22 00:53	1
Toluene-d8 (Surr)	89		80 - 120		09/29/22 00:53	1
Dibromofluoromethane (Surr)	95		75 - 123		09/29/22 00:53	1

Lab Sample ID: LCS 480-643152/6

Matrix: Water

Analysis Batch: 643152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	29.2		ug/L		117	74 - 124
Tetrachloroethene	25.0	32.6	*+	ug/L		131	74 - 122
trans-1,2-Dichloroethene	25.0	29.7		ug/L		119	73 - 127
Trichloroethene	25.0	28.6		ug/L		114	74 - 123
Vinyl chloride	25.0	29.4		ug/L		117	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: LCSD 480-643152/7

Matrix: Water

Analysis Batch: 643152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	74 - 124	5	15
Tetrachloroethene	25.0	29.5		ug/L		118	74 - 122	10	20
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	73 - 127	12	20
Trichloroethene	25.0	27.2		ug/L		109	74 - 123	5	16
Vinyl chloride	25.0	27.4		ug/L		110	65 - 133	7	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-643447/8

Matrix: Water

Analysis Batch: 643447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/30/22 15:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/30/22 15:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/30/22 15:12	1
Trichloroethene	ND		1.0	0.46	ug/L			09/30/22 15:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/30/22 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		77 - 120		09/30/22 15:12	1
4-Bromofluorobenzene (Surr)	115		73 - 120		09/30/22 15:12	1
Toluene-d8 (Surr)	103		80 - 120		09/30/22 15:12	1
Dibromofluoromethane (Surr)	116		75 - 123		09/30/22 15:12	1

Lab Sample ID: LCS 480-643447/5

Matrix: Water

Analysis Batch: 643447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	30.8		ug/L		123	74 - 124
Tetrachloroethene	25.0	31.3	*+	ug/L		125	74 - 122
trans-1,2-Dichloroethene	25.0	30.3		ug/L		121	73 - 127
Trichloroethene	25.0	30.1		ug/L		120	74 - 123
Vinyl chloride	25.0	30.6		ug/L		122	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Toluene-d8 (Surr)	86		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Lab Sample ID: LCSD 480-643447/6

Matrix: Water

Analysis Batch: 643447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	30.8		ug/L		123	74 - 124	0	15
Tetrachloroethene	25.0	29.7		ug/L		119	74 - 122	5	20
trans-1,2-Dichloroethene	25.0	30.8		ug/L		123	73 - 127	2	20
Trichloroethene	25.0	29.6		ug/L		118	74 - 123	2	16
Vinyl chloride	25.0	29.8		ug/L		119	65 - 133	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Toluene-d8 (Surr)	83		80 - 120
Dibromofluoromethane (Surr)	98		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-643837/7

Matrix: Water

Analysis Batch: 643837

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/04/22 13:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/04/22 13:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/04/22 13:31	1
Trichloroethene	ND		1.0	0.46	ug/L			10/04/22 13:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/04/22 13:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		10/04/22 13:31	1
4-Bromofluorobenzene (Surr)	78		73 - 120		10/04/22 13:31	1
Toluene-d8 (Surr)	78	S1-	80 - 120		10/04/22 13:31	1
Dibromofluoromethane (Surr)	91		75 - 123		10/04/22 13:31	1

Lab Sample ID: LCS 480-643837/5

Matrix: Water

Analysis Batch: 643837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	27.9		ug/L		112	74 - 124
Tetrachloroethene	25.0	25.6		ug/L		102	74 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
Trichloroethene	25.0	26.2		ug/L		105	74 - 123
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	84		80 - 120
Dibromofluoromethane (Surr)	91		75 - 123

Lab Sample ID: MB 480-644494/13

Matrix: Water

Analysis Batch: 644494

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/07/22 18:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/07/22 18:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/07/22 18:28	1
Trichloroethene	ND		1.0	0.46	ug/L			10/07/22 18:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/07/22 18:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/07/22 18:28	1
4-Bromofluorobenzene (Surr)	95		73 - 120		10/07/22 18:28	1
Toluene-d8 (Surr)	95		80 - 120		10/07/22 18:28	1
Dibromofluoromethane (Surr)	102		75 - 123		10/07/22 18:28	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-644494/9

Matrix: Water

Analysis Batch: 644494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127
Trichloroethene	25.0	24.2		ug/L		97	74 - 123
Vinyl chloride	25.0	26.3		ug/L		105	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: LCSD 480-644494/34

Matrix: Water

Analysis Batch: 644494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124	3	15
Tetrachloroethene	25.0	22.7		ug/L		91	74 - 122	7	20
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	73 - 127	9	20
Trichloroethene	25.0	22.4		ug/L		90	74 - 123	8	16
Vinyl chloride	25.0	26.0		ug/L		104	65 - 133	1	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Lab Sample ID: MB 480-644817/10

Matrix: Water

Analysis Batch: 644817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/22 12:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/22 12:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/22 12:45	1
Trichloroethene	ND		1.0	0.46	ug/L			10/11/22 12:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/22 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		10/11/22 12:45	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/11/22 12:45	1
Toluene-d8 (Surr)	90		80 - 120		10/11/22 12:45	1
Dibromofluoromethane (Surr)	89		75 - 123		10/11/22 12:45	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-644817/58

Matrix: Water

Analysis Batch: 644817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
Tetrachloroethene	25.0	21.6		ug/L		86	74 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
Trichloroethene	25.0	23.1		ug/L		92	74 - 123
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	95		75 - 123

Lab Sample ID: MB 480-644919/11

Matrix: Water

Analysis Batch: 644919

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/22 12:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/22 12:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/22 12:53	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/22 12:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/22 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		77 - 120		10/12/22 12:53	1
4-Bromofluorobenzene (Surr)	89		73 - 120		10/12/22 12:53	1
Toluene-d8 (Surr)	91		80 - 120		10/12/22 12:53	1
Dibromofluoromethane (Surr)	88		75 - 123		10/12/22 12:53	1

Lab Sample ID: LCS 480-644919/9

Matrix: Water

Analysis Batch: 644919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
Trichloroethene	25.0	25.6		ug/L		102	74 - 123
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		77 - 120
4-Bromofluorobenzene (Surr)	86		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	92		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-645313/8

Matrix: Water

Analysis Batch: 645313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/13/22 23:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/13/22 23:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/13/22 23:54	1
Trichloroethene	ND		1.0	0.46	ug/L			10/13/22 23:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/13/22 23:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/13/22 23:54	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/13/22 23:54	1
Toluene-d8 (Surr)	100		80 - 120		10/13/22 23:54	1
Dibromofluoromethane (Surr)	99		75 - 123		10/13/22 23:54	1

Lab Sample ID: LCS 480-645313/6

Matrix: Water

Analysis Batch: 645313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	74 - 124
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
Trichloroethene	25.0	26.9		ug/L		108	74 - 123
Vinyl chloride	25.0	28.3		ug/L		113	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: MB 480-645608/7

Matrix: Water

Analysis Batch: 645608

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/22 12:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/22 12:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/22 12:34	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/22 12:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/22 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/15/22 12:34	1
4-Bromofluorobenzene (Surr)	102		73 - 120		10/15/22 12:34	1
Toluene-d8 (Surr)	99		80 - 120		10/15/22 12:34	1
Dibromofluoromethane (Surr)	99		75 - 123		10/15/22 12:34	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-645608/5

Matrix: Water

Analysis Batch: 645608

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Vinyl chloride	25.0	22.9		ug/L		92	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-202434-1 MS

Matrix: Water

Analysis Batch: 645608

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	750	F1	250	943		ug/L		77	74 - 124
Tetrachloroethene	630	F1	250	802	F1	ug/L		68	74 - 122
trans-1,2-Dichloroethene	ND		250	250		ug/L		100	73 - 127
Trichloroethene	340		250	554		ug/L		86	74 - 123
Vinyl chloride	13		250	260		ug/L		99	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: 480-202434-1 MSD

Matrix: Water

Analysis Batch: 645608

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	750	F1	250	888	F1	ug/L		55	74 - 124	6	15
Tetrachloroethene	630	F1	250	799	F1	ug/L		67	74 - 122	0	20
trans-1,2-Dichloroethene	ND		250	240		ug/L		96	73 - 127	4	20
Trichloroethene	340		250	531		ug/L		77	74 - 123	4	16
Vinyl chloride	13		250	244		ug/L		93	65 - 133	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	104		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-645911/8

Matrix: Water

Analysis Batch: 645911

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/18/22 01:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/18/22 01:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/18/22 01:40	1
Trichloroethene	ND		1.0	0.46	ug/L			10/18/22 01:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/18/22 01:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/18/22 01:40	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/18/22 01:40	1
Toluene-d8 (Surr)	101		80 - 120		10/18/22 01:40	1
Dibromofluoromethane (Surr)	103		75 - 123		10/18/22 01:40	1

Lab Sample ID: LCS 480-645911/6

Matrix: Water

Analysis Batch: 645911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
Tetrachloroethene	25.0	26.5		ug/L		106	74 - 122
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	73 - 127
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Lab Sample ID: 480-202381-2 MS

Matrix: Water

Analysis Batch: 645911

Client Sample ID: MW-7-5-100522

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	580		5000	5690		ug/L		102	74 - 124
Tetrachloroethene	10000	F1	5000	14300		ug/L		82	74 - 122
trans-1,2-Dichloroethene	ND		5000	5200		ug/L		104	73 - 127
Trichloroethene	830		5000	5840		ug/L		100	74 - 123
Vinyl chloride	ND		5000	4210		ug/L		84	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-202381-2 MSD

Matrix: Water

Analysis Batch: 645911

Client Sample ID: MW-7-5-100522

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	580		5000	5590		ug/L		100	74 - 124	2	15
Tetrachloroethene	10000	F1	5000	13600	F1	ug/L		68	74 - 122	5	20
trans-1,2-Dichloroethene	ND		5000	5090		ug/L		102	73 - 127	2	20
Trichloroethene	830		5000	5760		ug/L		99	74 - 123	1	16
Vinyl chloride	ND		5000	3950		ug/L		79	65 - 133	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-643252/1-A

Matrix: Water

Analysis Batch: 643480

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 643252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		09/29/22 09:05	09/30/22 15:35	1
Acenaphthylene	ND		5.0	0.38	ug/L		09/29/22 09:05	09/30/22 15:35	1
Anthracene	ND		5.0	0.28	ug/L		09/29/22 09:05	09/30/22 15:35	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		09/29/22 09:05	09/30/22 15:35	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		09/29/22 09:05	09/30/22 15:35	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		09/29/22 09:05	09/30/22 15:35	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		09/29/22 09:05	09/30/22 15:35	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		09/29/22 09:05	09/30/22 15:35	1
Chrysene	ND		5.0	0.33	ug/L		09/29/22 09:05	09/30/22 15:35	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		09/29/22 09:05	09/30/22 15:35	1
Fluoranthene	ND		5.0	0.40	ug/L		09/29/22 09:05	09/30/22 15:35	1
Fluorene	ND		5.0	0.36	ug/L		09/29/22 09:05	09/30/22 15:35	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		09/29/22 09:05	09/30/22 15:35	1
Naphthalene	ND		5.0	0.76	ug/L		09/29/22 09:05	09/30/22 15:35	1
Phenanthrene	ND		5.0	0.44	ug/L		09/29/22 09:05	09/30/22 15:35	1
Pyrene	ND		5.0	0.34	ug/L		09/29/22 09:05	09/30/22 15:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		48 - 120	09/29/22 09:05	09/30/22 15:35	1
Nitrobenzene-d5 (Surr)	64		46 - 120	09/29/22 09:05	09/30/22 15:35	1
p-Terphenyl-d14 (Surr)	91		60 - 148	09/29/22 09:05	09/30/22 15:35	1

Lab Sample ID: LCS 480-643252/2-A

Matrix: Water

Analysis Batch: 643480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 643252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	27.6		ug/L		86	60 - 120
Acenaphthylene	32.0	29.3		ug/L		92	63 - 120

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-643252/2-A

Matrix: Water

Analysis Batch: 643480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 643252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	32.0	33.1		ug/L		103	67 - 120
Benzo[a]anthracene	32.0	31.1		ug/L		97	70 - 121
Benzo[a]pyrene	32.0	32.2		ug/L		101	60 - 123
Benzo[b]fluoranthene	32.0	31.7		ug/L		99	66 - 126
Benzo[g,h,i]perylene	32.0	31.7		ug/L		99	66 - 150
Benzo[k]fluoranthene	32.0	32.8		ug/L		103	65 - 124
Chrysene	32.0	31.7		ug/L		99	69 - 120
Dibenz(a,h)anthracene	32.0	33.2		ug/L		104	65 - 135
Fluoranthene	32.0	32.6		ug/L		102	69 - 126
Fluorene	32.0	29.6		ug/L		92	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	33.4		ug/L		104	69 - 146
Naphthalene	32.0	26.2		ug/L		82	57 - 120
Phenanthrene	32.0	30.5		ug/L		95	68 - 120
Pyrene	32.0	33.5		ug/L		105	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	83		48 - 120
Nitrobenzene-d5 (Surr)	72		46 - 120
p-Terphenyl-d14 (Surr)	95		60 - 148

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-184061/4

Matrix: Water

Analysis Batch: 184061

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			09/28/22 15:54	1

Lab Sample ID: LCS 200-184061/2

Matrix: Water

Analysis Batch: 184061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	45200		ug/L		113	70 - 130

Lab Sample ID: LCSD 200-184061/3

Matrix: Water

Analysis Batch: 184061

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	36100		ug/L		90	70 - 130	22	30

Lab Sample ID: MB 200-184225/3

Matrix: Water

Analysis Batch: 184225

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/03/22 14:28	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 200-184225/2

Matrix: Water

Analysis Batch: 184225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	38500		ug/L		96	70 - 130

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 184225

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	18000		40000	50000		ug/L		81	70 - 130

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 184225

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	18000		40000	50100		ug/L		81	70 - 130	0	30

Lab Sample ID: MB 200-184264/4

Matrix: Water

Analysis Batch: 184264

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/04/22 10:56	1

Lab Sample ID: LCS 200-184264/2

Matrix: Water

Analysis Batch: 184264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	44200		ug/L		111	70 - 130

Lab Sample ID: LCSD 200-184264/3

Matrix: Water

Analysis Batch: 184264

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	40300		ug/L		101	70 - 130	9	30

Lab Sample ID: MB 200-184322/3

Matrix: Water

Analysis Batch: 184322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/05/22 12:18	1

Lab Sample ID: LCS 200-184322/2

Matrix: Water

Analysis Batch: 184322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	40500		ug/L		101	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-184419/28
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/07/22 16:56	1

Lab Sample ID: MB 200-184419/4
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/07/22 13:12	1

Lab Sample ID: LCS 200-184419/2
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	37500		ug/L		94	70 - 130

Lab Sample ID: LCS 200-184419/26
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	39600		ug/L		99	70 - 130

Lab Sample ID: LCSD 200-184419/27
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	39000		ug/L		98	70 - 130	1	30

Lab Sample ID: LCSD 200-184419/3
Matrix: Water
Analysis Batch: 184419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	35100		ug/L		88	70 - 130	7	30

Lab Sample ID: MB 200-184469/3
Matrix: Water
Analysis Batch: 184469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/10/22 12:19	1

Lab Sample ID: LCS 200-184469/2
Matrix: Water
Analysis Batch: 184469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	36700		ug/L		92	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: 480-202434-1 MS

Matrix: Water

Analysis Batch: 184469

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	44000		40000	82200		ug/L		95	70 - 130

Lab Sample ID: 480-202434-1 MSD

Matrix: Water

Analysis Batch: 184469

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	44000		40000	89300		ug/L		112	70 - 130	8	30

Lab Sample ID: MB 200-184657/4

Matrix: Water

Analysis Batch: 184657

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		5000	5000	ug/L			10/13/22 11:38	1

Lab Sample ID: LCS 200-184657/2

Matrix: Water

Analysis Batch: 184657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	40000	39800		ug/L		100	70 - 130

Lab Sample ID: LCSD 200-184657/3

Matrix: Water

Analysis Batch: 184657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	39700		ug/L		99	70 - 130	0	30

Lab Sample ID: MB 480-642681/3

Matrix: Water

Analysis Batch: 642681

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			09/25/22 16:22	1
Ethene	ND		7.0	1.5	ug/L			09/25/22 16:22	1
Methane	ND		4.0	1.0	ug/L			09/25/22 16:22	1

Lab Sample ID: LCS 480-642681/4

Matrix: Water

Analysis Batch: 642681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	36.0		ug/L		99	79 - 120
Ethene	34.0	33.7		ug/L		99	85 - 120
Methane	19.4	18.2		ug/L		94	85 - 120

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-642681/5

Matrix: Water

Analysis Batch: 642681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	34.1		ug/L		94	79 - 120	6	50
Ethene	34.0	32.4		ug/L		95	85 - 120	4	50
Methane	19.4	17.2		ug/L		89	85 - 120	6	50

Lab Sample ID: MB 480-642965/5

Matrix: Water

Analysis Batch: 642965

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			09/27/22 15:16	1
Ethene	ND		7.0	1.5	ug/L			09/27/22 15:16	1
Methane	ND		4.0	1.0	ug/L			09/27/22 15:16	1

Lab Sample ID: LCS 480-642965/6

Matrix: Water

Analysis Batch: 642965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	34.4		ug/L		95	79 - 120
Ethene	34.0	33.2		ug/L		98	85 - 120
Methane	19.4	17.2		ug/L		89	85 - 120

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 642965

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	ND		36.3	35.2		ug/L		97	76 - 125
Ethene	ND		34.0	32.5		ug/L		96	75 - 129
Methane	ND		19.4	17.8		ug/L		92	38 - 150

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 642965

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	ND		36.3	34.3		ug/L		94	76 - 125	3	50
Ethene	ND		34.0	31.3		ug/L		92	75 - 129	4	50
Methane	ND		19.4	17.4		ug/L		90	38 - 150	2	50

Lab Sample ID: MB 480-643176/3

Matrix: Water

Analysis Batch: 643176

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			09/28/22 15:04	1
Ethene	ND		7.0	1.5	ug/L			09/28/22 15:04	1
Methane	ND		4.0	1.0	ug/L			09/28/22 15:04	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-643176/4
Matrix: Water
Analysis Batch: 643176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	37.2		ug/L		102	79 - 120
Ethene	34.0	34.8		ug/L		102	85 - 120
Methane	19.4	19.2		ug/L		99	85 - 120

Lab Sample ID: LCSD 480-643176/5
Matrix: Water
Analysis Batch: 643176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	35.6		ug/L		98	79 - 120	4	50
Ethene	34.0	33.8		ug/L		99	85 - 120	3	50
Methane	19.4	18.5		ug/L		95	85 - 120	4	50

Lab Sample ID: MB 480-643247/3
Matrix: Water
Analysis Batch: 643247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			09/29/22 09:27	1
Ethene	ND		7.0	1.5	ug/L			09/29/22 09:27	1
Methane	ND		4.0	1.0	ug/L			09/29/22 09:27	1

Lab Sample ID: LCS 480-643247/4
Matrix: Water
Analysis Batch: 643247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	34.3		ug/L		94	79 - 120
Ethene	34.0	34.6		ug/L		102	85 - 120
Methane	19.4	17.2		ug/L		89	85 - 120

Lab Sample ID: LCSD 480-643247/5
Matrix: Water
Analysis Batch: 643247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	34.7		ug/L		96	79 - 120	1	50
Ethene	34.0	34.4		ug/L		101	85 - 120	1	50
Methane	19.4	17.4		ug/L		90	85 - 120	1	50

Lab Sample ID: MB 480-643493/3
Matrix: Water
Analysis Batch: 643493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			09/30/22 11:08	1
Ethene	ND		7.0	1.5	ug/L			09/30/22 11:08	1
Methane	ND		4.0	1.0	ug/L			09/30/22 11:08	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-643493/4

Matrix: Water

Analysis Batch: 643493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	38.7		ug/L		107	79 - 120
Ethene	34.0	38.0		ug/L		112	85 - 120
Methane	19.4	19.7		ug/L		102	85 - 120

Lab Sample ID: LCSD 480-643493/5

Matrix: Water

Analysis Batch: 643493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	36.5		ug/L		100	79 - 120	6	50
Ethene	34.0	36.1		ug/L		106	85 - 120	5	50
Methane	19.4	18.5		ug/L		96	85 - 120	6	50

Lab Sample ID: MB 480-643929/27

Matrix: Water

Analysis Batch: 643929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/04/22 21:32	1
Ethene	ND		7.0	1.5	ug/L			10/04/22 21:32	1
Methane	ND		4.0	1.0	ug/L			10/04/22 21:32	1

Lab Sample ID: MB 480-643929/3

Matrix: Water

Analysis Batch: 643929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/04/22 13:16	1
Ethene	ND		7.0	1.5	ug/L			10/04/22 13:16	1
Methane	ND		4.0	1.0	ug/L			10/04/22 13:16	1

Lab Sample ID: LCS 480-643929/28

Matrix: Water

Analysis Batch: 643929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	39.1		ug/L		108	79 - 120
Ethene	34.0	36.4		ug/L		107	85 - 120
Methane	19.4	20.0		ug/L		103	85 - 120

Lab Sample ID: LCS 480-643929/4

Matrix: Water

Analysis Batch: 643929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	36.1		ug/L		100	79 - 120
Ethene	34.0	33.3		ug/L		98	85 - 120
Methane	19.4	18.7		ug/L		96	85 - 120

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-643929/29
Matrix: Water
Analysis Batch: 643929

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	35.7		ug/L		98	79 - 120	9	50
Ethene	34.0	33.3		ug/L		98	85 - 120	9	50
Methane	19.4	18.8		ug/L		97	85 - 120	6	50

Lab Sample ID: MB 480-644300/3
Matrix: Water
Analysis Batch: 644300

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/06/22 13:08	1
Ethene	ND		7.0	1.5	ug/L			10/06/22 13:08	1
Methane	ND		4.0	1.0	ug/L			10/06/22 13:08	1

Lab Sample ID: LCS 480-644300/4
Matrix: Water
Analysis Batch: 644300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	39.1		ug/L		108	79 - 120
Ethene	34.0	37.2		ug/L		109	85 - 120
Methane	19.4	20.0		ug/L		103	85 - 120

Lab Sample ID: LCSD 480-644300/5
Matrix: Water
Analysis Batch: 644300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	37.8		ug/L		104	79 - 120	3	50
Ethene	34.0	37.2		ug/L		109	85 - 120	0	50
Methane	19.4	19.4		ug/L		100	85 - 120	3	50

Lab Sample ID: MB 480-644615/27
Matrix: Water
Analysis Batch: 644615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/10/22 01:21	1
Ethene	ND		7.0	1.5	ug/L			10/10/22 01:21	1
Methane	ND		4.0	1.0	ug/L			10/10/22 01:21	1

Lab Sample ID: MB 480-644615/3
Matrix: Water
Analysis Batch: 644615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/09/22 16:45	1
Ethene	ND		7.0	1.5	ug/L			10/09/22 16:45	1
Methane	ND		4.0	1.0	ug/L			10/09/22 16:45	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-644615/28
Matrix: Water
Analysis Batch: 644615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	33.8		ug/L		93	79 - 120
Ethene	34.0	32.6		ug/L		96	85 - 120
Methane	19.4	17.3		ug/L		89	85 - 120

Lab Sample ID: LCS 480-644615/4
Matrix: Water
Analysis Batch: 644615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.3	36.1		ug/L		99	79 - 120
Ethene	34.0	33.8		ug/L		99	85 - 120
Methane	19.4	18.2		ug/L		94	85 - 120

Lab Sample ID: LCSD 480-644615/29
Matrix: Water
Analysis Batch: 644615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	36.3	33.1		ug/L		91	79 - 120	2	50
Ethene	34.0	31.9		ug/L		94	85 - 120	2	50
Methane	19.4	17.1		ug/L		88	85 - 120	1	50

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 644615

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	ND		400	416		ug/L		104	76 - 125
Ethene	ND		374	379		ug/L		101	75 - 129
Methane	150		213	472		ug/L		150	38 - 150

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 644615

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	ND		400	378		ug/L		95	76 - 125	10	50
Ethene	ND		374	358		ug/L		96	75 - 129	6	50
Methane	150		213	408		ug/L		120	38 - 150	14	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-642627/1-A
Matrix: Water
Analysis Batch: 643069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20	0.043	mg/L		09/26/22 12:41	09/27/22 14:25	1
Manganese	0.00288	J	0.0030	0.00040	mg/L		09/26/22 12:41	09/27/22 14:25	1
Potassium	ND		0.50	0.10	mg/L		09/26/22 12:41	09/27/22 14:25	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-642627/1-A

Matrix: Water

Analysis Batch: 643069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 642627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		09/26/22 12:41	09/27/22 14:25	1

Lab Sample ID: LCS 480-642627/2-A

Matrix: Water

Analysis Batch: 643069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	10.0	9.43		mg/L		94	80 - 120
Manganese	0.200	0.209		mg/L		104	80 - 120
Potassium	10.0	9.63		mg/L		96	80 - 120
Sodium	10.0	9.52		mg/L		95	80 - 120

Lab Sample ID: MB 480-642995/1-A

Matrix: Water

Analysis Batch: 643285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 642995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		09/28/22 09:23	09/29/22 01:35	1
Magnesium	ND		0.20	0.043	mg/L		09/28/22 09:23	09/29/22 01:35	1
Manganese	0.000900	J	0.0030	0.00040	mg/L		09/28/22 09:23	09/29/22 01:35	1
Potassium	ND		0.50	0.10	mg/L		09/28/22 09:23	09/29/22 01:35	1
Sodium	ND		1.0	0.32	mg/L		09/28/22 09:23	09/29/22 01:35	1

Lab Sample ID: LCS 480-642995/2-A

Matrix: Water

Analysis Batch: 643285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.10		mg/L		101	80 - 120
Magnesium	10.0	9.75		mg/L		97	80 - 120
Manganese	0.200	0.194		mg/L		97	80 - 120
Potassium	10.0	9.63		mg/L		96	80 - 120
Sodium	10.0	9.06		mg/L		91	80 - 120

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643285

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Prep Batch: 642995

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.035	J	10.0	10.32		mg/L		103	75 - 125
Magnesium	27.0	F1	10.0	30.19	F1	mg/L		32	75 - 125
Manganese	0.0014	J B	0.200	0.192		mg/L		95	75 - 125
Potassium	6.8	F1	10.0	13.47	F1	mg/L		66	75 - 125
Sodium	136		10.0	74.20	4	mg/L		-615	75 - 125

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643285

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Prep Batch: 642995

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.035	J	10.0	10.04		mg/L		100	75 - 125	3	20
Magnesium	27.0	F1	10.0	30.81	F1	mg/L		38	75 - 125	2	20
Manganese	0.0014	J B	0.200	0.189		mg/L		94	75 - 125	2	20
Potassium	6.8	F1	10.0	13.90	F1	mg/L		71	75 - 125	3	20
Sodium	136		10.0	84.47	4	mg/L		-513	75 - 125	13	20

Lab Sample ID: MB 480-643174/1-A

Matrix: Water

Analysis Batch: 643460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 643174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		09/29/22 09:07	09/29/22 18:08	1
Magnesium	ND		0.20	0.043	mg/L		09/29/22 09:07	09/29/22 18:08	1
Manganese	ND		0.0030	0.00040	mg/L		09/29/22 09:07	09/29/22 18:08	1
Potassium	ND		0.50	0.10	mg/L		09/29/22 09:07	09/29/22 18:08	1
Sodium	ND		1.0	0.32	mg/L		09/29/22 09:07	09/29/22 18:08	1

Lab Sample ID: LCS 480-643174/2-A

Matrix: Water

Analysis Batch: 643460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 643174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.58		mg/L		96	80 - 120
Magnesium	10.0	9.69		mg/L		97	80 - 120
Manganese	0.200	0.201		mg/L		101	80 - 120
Potassium	10.0	10.10		mg/L		101	80 - 120
Sodium	10.0	9.88		mg/L		99	80 - 120

Lab Sample ID: 480-202074-1 MS

Matrix: Water

Analysis Batch: 643460

Client Sample ID: MW-8-1-092722

Prep Type: Total/NA

Prep Batch: 643174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.031	J	10.0	9.80		mg/L		98	75 - 125
Magnesium	124		10.0	134.8	4	mg/L		109	75 - 125
Manganese	0.11		0.200	0.317		mg/L		104	75 - 125
Potassium	19.8		10.0	30.96		mg/L		112	75 - 125
Sodium	618		10.0	639.4	4	mg/L		214	75 - 125

Lab Sample ID: 480-202074-1 MSD

Matrix: Water

Analysis Batch: 643460

Client Sample ID: MW-8-1-092722

Prep Type: Total/NA

Prep Batch: 643174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.031	J	10.0	9.87		mg/L		98	75 - 125	1	20
Magnesium	124		10.0	133.6	4	mg/L		97	75 - 125	1	20
Manganese	0.11		0.200	0.317		mg/L		104	75 - 125	0	20
Potassium	19.8		10.0	30.88		mg/L		111	75 - 125	0	20
Sodium	618		10.0	638.6	4	mg/L		206	75 - 125	0	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-643358/1-A
Matrix: Water
Analysis Batch: 643708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		09/29/22 16:05	09/30/22 14:49	1
Magnesium	ND		0.20	0.043	mg/L		09/29/22 16:05	09/30/22 14:49	1
Manganese	ND		0.0030	0.00040	mg/L		09/29/22 16:05	09/30/22 14:49	1
Potassium	ND		0.50	0.10	mg/L		09/29/22 16:05	09/30/22 14:49	1
Sodium	ND		1.0	0.32	mg/L		09/29/22 16:05	09/30/22 14:49	1

Lab Sample ID: LCS 480-643358/2-A
Matrix: Water
Analysis Batch: 643708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.09		mg/L		101	80 - 120
Magnesium	10.0	9.57		mg/L		96	80 - 120
Manganese	0.200	0.210		mg/L		105	80 - 120
Potassium	10.0	9.88		mg/L		99	80 - 120
Sodium	10.0	9.71		mg/L		97	80 - 120

Lab Sample ID: 480-202115-1 MS
Matrix: Water
Analysis Batch: 643708

Client Sample ID: MW-8-3-092822
Prep Type: Total/NA
Prep Batch: 643358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.084		10.0	9.80		mg/L		97	75 - 125
Magnesium	49.3		10.0	59.96	4	mg/L		106	75 - 125
Manganese	6.0		0.200	6.42	4	mg/L		188	75 - 125
Potassium	412		10.0	430.5	4	mg/L		182	75 - 125
Sodium	301		10.0	319.1	4	mg/L		181	75 - 125

Lab Sample ID: 480-202115-1 MSD
Matrix: Water
Analysis Batch: 643708

Client Sample ID: MW-8-3-092822
Prep Type: Total/NA
Prep Batch: 643358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	0.084		10.0	9.76		mg/L		97	75 - 125	0	20
Magnesium	49.3		10.0	58.38	4	mg/L		90	75 - 125	3	20
Manganese	6.0		0.200	6.23	4	mg/L		92	75 - 125	3	20
Potassium	412		10.0	423.3	4	mg/L		110	75 - 125	2	20
Sodium	301		10.0	311.7	4	mg/L		107	75 - 125	2	20

Lab Sample ID: MB 480-643549/1-A
Matrix: Water
Analysis Batch: 643873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/03/22 09:39	10/03/22 17:07	1
Magnesium	ND		0.20	0.043	mg/L		10/03/22 09:39	10/03/22 17:07	1
Manganese	0.00120	J	0.0030	0.00040	mg/L		10/03/22 09:39	10/03/22 17:07	1
Potassium	ND		0.50	0.10	mg/L		10/03/22 09:39	10/03/22 17:07	1
Sodium	ND		1.0	0.32	mg/L		10/03/22 09:39	10/03/22 17:07	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-643549/2-A
Matrix: Water
Analysis Batch: 643873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	20.67		mg/L		103	80 - 120
Magnesium	20.0	20.09		mg/L		100	80 - 120
Manganese	0.400	0.423		mg/L		106	80 - 120
Potassium	10.0	9.83		mg/L		98	80 - 120
Sodium	10.0	9.59		mg/L		96	80 - 120

Lab Sample ID: MB 480-643956/1-A
Matrix: Water
Analysis Batch: 644226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/05/22 08:56	10/05/22 19:46	1
Magnesium	ND		0.20	0.043	mg/L		10/05/22 08:56	10/05/22 19:46	1
Manganese	ND		0.0030	0.00040	mg/L		10/05/22 08:56	10/05/22 19:46	1
Potassium	ND		0.50	0.10	mg/L		10/05/22 08:56	10/05/22 19:46	1
Sodium	ND		1.0	0.32	mg/L		10/05/22 08:56	10/05/22 19:46	1

Lab Sample ID: LCS 480-643956/2-A
Matrix: Water
Analysis Batch: 644226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.10		mg/L		101	80 - 120
Magnesium	10.0	9.55		mg/L		95	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120
Potassium	10.0	9.71		mg/L		97	80 - 120
Sodium	10.0	9.53		mg/L		95	80 - 120

Lab Sample ID: LCSD 480-643956/3-A
Matrix: Water
Analysis Batch: 644226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 643956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	10.0	10.34		mg/L		103	80 - 120	2	20
Magnesium	10.0	9.85		mg/L		98	80 - 120	3	20
Manganese	0.200	0.210		mg/L		105	80 - 120	3	20
Potassium	10.0	9.90		mg/L		99	80 - 120	2	20
Sodium	10.0	9.78		mg/L		98	80 - 120	3	20

Lab Sample ID: MB 480-644116/1-A
Matrix: Water
Analysis Batch: 644402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/05/22 15:59	10/07/22 03:49	1
Magnesium	ND		0.20	0.043	mg/L		10/05/22 15:59	10/07/22 03:49	1
Manganese	0.00132	J	0.0030	0.00040	mg/L		10/05/22 15:59	10/07/22 03:49	1
Potassium	ND		0.50	0.10	mg/L		10/05/22 15:59	10/07/22 03:49	1
Sodium	ND		1.0	0.32	mg/L		10/05/22 15:59	10/07/22 03:49	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-644116/2-A
Matrix: Water
Analysis Batch: 644402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.05		mg/L		100	80 - 120
Magnesium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Potassium	10.0	9.45		mg/L		94	80 - 120
Sodium	10.0	9.43		mg/L		94	80 - 120

Lab Sample ID: MB 480-644327/1-A
Matrix: Water
Analysis Batch: 644676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/06/22 16:23	10/07/22 17:15	1
Magnesium	ND		0.20	0.043	mg/L		10/06/22 16:23	10/07/22 17:15	1
Manganese	0.000970	J	0.0030	0.00040	mg/L		10/06/22 16:23	10/07/22 17:15	1
Potassium	ND		0.50	0.10	mg/L		10/06/22 16:23	10/07/22 17:15	1
Sodium	ND		1.0	0.32	mg/L		10/06/22 16:23	10/07/22 17:15	1

Lab Sample ID: LCS 480-644327/2-A
Matrix: Water
Analysis Batch: 644676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.10		mg/L		101	80 - 120
Magnesium	10.0	9.55		mg/L		95	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120
Potassium	10.0	9.71		mg/L		97	80 - 120
Sodium	10.0	9.61		mg/L		96	80 - 120

Lab Sample ID: LCSD 480-644327/3-A
Matrix: Water
Analysis Batch: 644676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 644327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	10.0	10.45		mg/L		104	80 - 120	3	20
Magnesium	10.0	9.83		mg/L		98	80 - 120	3	20
Manganese	0.200	0.211		mg/L		105	80 - 120	3	20
Potassium	10.0	9.97		mg/L		100	80 - 120	3	20
Sodium	10.0	9.82		mg/L		98	80 - 120	2	20

Lab Sample ID: MB 480-644708/1-A
Matrix: Water
Analysis Batch: 645252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/11/22 09:02	10/12/22 17:36	1
Magnesium	ND		0.20	0.043	mg/L		10/11/22 09:02	10/12/22 17:36	1
Manganese	0.000540	J	0.0030	0.00040	mg/L		10/11/22 09:02	10/12/22 17:36	1
Potassium	ND		0.50	0.10	mg/L		10/11/22 09:02	10/12/22 17:36	1
Sodium	ND		1.0	0.32	mg/L		10/11/22 09:02	10/12/22 17:36	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-644708/2-A
Matrix: Water
Analysis Batch: 645252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.27		mg/L		103	80 - 120
Magnesium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.200	0.212		mg/L		106	80 - 120
Potassium	10.0	10.03		mg/L		100	80 - 120
Sodium	10.0	9.81		mg/L		98	80 - 120

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 645252

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA
Prep Batch: 644708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.18		10.0	10.51		mg/L		103	75 - 125
Magnesium	96.7		10.0	103.0	4	mg/L		63	75 - 125
Manganese	0.32	B	0.200	0.517		mg/L		99	75 - 125
Potassium	15.1		10.0	26.96		mg/L		119	75 - 125

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 645551

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA
Prep Batch: 644708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	3850		10.0	3800	4	mg/L		-454	75 - 125

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 645252

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA
Prep Batch: 644708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	0.18		10.0	10.14		mg/L		99	75 - 125	4	20
Magnesium	96.7		10.0	101.3	4	mg/L		46	75 - 125	2	20
Manganese	0.32	B	0.200	0.504		mg/L		93	75 - 125	2	20
Potassium	15.1		10.0	26.44		mg/L		114	75 - 125	2	20

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 645551

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA
Prep Batch: 644708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sodium	3850		10.0	3415	4	mg/L		-4302	75 - 125	11	20

Lab Sample ID: MB 480-644760/1-A
Matrix: Water
Analysis Batch: 646704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/11/22 14:49	10/22/22 11:33	1
Magnesium	ND		0.20	0.043	mg/L		10/11/22 14:49	10/22/22 11:33	1
Manganese	0.00172	J	0.0030	0.00040	mg/L		10/11/22 14:49	10/22/22 11:33	1
Potassium	ND		0.50	0.10	mg/L		10/11/22 14:49	10/22/22 11:33	1
Sodium	ND		1.0	0.32	mg/L		10/11/22 14:49	10/22/22 11:33	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 480-644760/2-A
Matrix: Water
Analysis Batch: 646704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.69		mg/L		107	80 - 120
Magnesium	10.0	10.63		mg/L		106	80 - 120
Manganese	0.200	0.229		mg/L		114	80 - 120
Potassium	10.0	10.70		mg/L		107	80 - 120
Sodium	10.0	10.35		mg/L		103	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-643308/4
Matrix: Water
Analysis Batch: 643308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			09/29/22 16:37	1
Sulfate	ND		2.0	0.35	mg/L			09/29/22 16:37	1

Lab Sample ID: LCS 480-643308/5
Matrix: Water
Analysis Batch: 643308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.21		mg/L		102	90 - 110
Sulfate	50.0	51.19		mg/L		102	90 - 110

Lab Sample ID: 480-201913-3 MS
Matrix: Water
Analysis Batch: 643308

Client Sample ID: MW-7-4-092222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	587		501	1071		mg/L		97	81 - 120
Sulfate	74.5		500	606.7		mg/L		106	80 - 120

Lab Sample ID: 480-201913-3 MSD
Matrix: Water
Analysis Batch: 643308

Client Sample ID: MW-7-4-092222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	587		501	1055		mg/L		93	81 - 120	2	15
Sulfate	74.5		500	601.3		mg/L		105	80 - 120	1	15

Lab Sample ID: MB 480-643518/28
Matrix: Water
Analysis Batch: 643518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/01/22 02:04	1
Sulfate	ND		2.0	0.35	mg/L			10/01/22 02:04	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-643518/4

Matrix: Water

Analysis Batch: 643518

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			09/30/22 21:45	1
Sulfate	ND		2.0	0.35	mg/L			09/30/22 21:45	1

Lab Sample ID: LCS 480-643518/29

Matrix: Water

Analysis Batch: 643518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.44		mg/L		103	90 - 110
Sulfate	50.0	51.34		mg/L		103	90 - 110

Lab Sample ID: LCS 480-643518/5

Matrix: Water

Analysis Batch: 643518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.41		mg/L		103	90 - 110
Sulfate	50.0	51.39		mg/L		103	90 - 110

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643518

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	104		251	399.4		mg/L		118	81 - 120
Sulfate	163		250	439.5		mg/L		111	80 - 120

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643518

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104		251	346.3		mg/L		97	81 - 120	14	15
Sulfate	163		250	403.8		mg/L		96	80 - 120	8	15

Lab Sample ID: MB 480-643558/4

Matrix: Water

Analysis Batch: 643558

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/01/22 07:06	1
Sulfate	ND		2.0	0.35	mg/L			10/01/22 07:06	1

Lab Sample ID: LCS 480-643558/5

Matrix: Water

Analysis Batch: 643558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.48		mg/L		103	90 - 110
Sulfate	50.0	51.43		mg/L		103	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 480-202074-3 MS

Matrix: Water

Analysis Batch: 643558

Client Sample ID: DUPLICATE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	482		501	978.9		mg/L		99	81 - 120
Sulfate	228		500	745.2		mg/L		103	80 - 120

Lab Sample ID: 480-202074-3 MSD

Matrix: Water

Analysis Batch: 643558

Client Sample ID: DUPLICATE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	482		501	978.8		mg/L		99	81 - 120	0	15
Sulfate	228		500	736.8		mg/L		102	80 - 120	1	15

Lab Sample ID: MB 480-643771/28

Matrix: Water

Analysis Batch: 643771

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/04/22 01:41	1
Sulfate	ND		2.0	0.35	mg/L			10/04/22 01:41	1

Lab Sample ID: LCS 480-643771/29

Matrix: Water

Analysis Batch: 643771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.62		mg/L		99	90 - 110
Sulfate	50.0	49.98		mg/L		100	90 - 110

Lab Sample ID: MB 480-643966/28

Matrix: Water

Analysis Batch: 643966

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/05/22 01:34	1
Sulfate	ND		2.0	0.35	mg/L			10/05/22 01:34	1

Lab Sample ID: LCS 480-643966/29

Matrix: Water

Analysis Batch: 643966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.81		mg/L		99	90 - 110
Sulfate	50.0	50.24		mg/L		100	90 - 110

Lab Sample ID: MB 480-644268/4

Matrix: Water

Analysis Batch: 644268

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/06/22 13:15	1
Sulfate	ND		2.0	0.35	mg/L			10/06/22 13:15	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 480-644268/5

Matrix: Water

Analysis Batch: 644268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.20		mg/L		102	90 - 110
Sulfate	50.0	51.20		mg/L		102	90 - 110

Lab Sample ID: MB 480-644509/28

Matrix: Water

Analysis Batch: 644509

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/08/22 00:57	1
Sulfate	ND		2.0	0.35	mg/L			10/08/22 00:57	1

Lab Sample ID: LCS 480-644509/29

Matrix: Water

Analysis Batch: 644509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.05		mg/L		100	90 - 110
Sulfate	50.0	50.33		mg/L		101	90 - 110

Lab Sample ID: MB 480-644909/4

Matrix: Water

Analysis Batch: 644909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/11/22 18:41	1
Sulfate	ND		2.0	0.35	mg/L			10/11/22 18:41	1

Lab Sample ID: LCS 480-644909/5

Matrix: Water

Analysis Batch: 644909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	50.05		mg/L		100	90 - 110
Sulfate	50.0	50.36		mg/L		101	90 - 110

Lab Sample ID: MB 480-645171/4

Matrix: Water

Analysis Batch: 645171

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/12/22 18:25	1
Sulfate	ND		2.0	0.35	mg/L			10/12/22 18:25	1

Lab Sample ID: LCS 480-645171/5

Matrix: Water

Analysis Batch: 645171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	51.68		mg/L		103	90 - 110
Sulfate	50.0	51.78		mg/L		104	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-645712/4
Matrix: Water
Analysis Batch: 645712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/16/22 16:50	1
Sulfate	ND		2.0	0.35	mg/L			10/16/22 16:50	1

Lab Sample ID: LCS 480-645712/5
Matrix: Water
Analysis Batch: 645712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	52.27		mg/L		104	90 - 110
Sulfate	50.0	53.14		mg/L		106	90 - 110

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 645712

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12700		5010	17360		mg/L		94	81 - 120
Sulfate	714		5000	6174		mg/L		109	80 - 120

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 645712

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12700		5010	17410		mg/L		95	81 - 120	0	15
Sulfate	714		5000	6229		mg/L		110	80 - 120	1	15

Lab Sample ID: MB 480-645723/28
Matrix: Water
Analysis Batch: 645723

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/17/22 01:56	1
Sulfate	ND		2.0	0.35	mg/L			10/17/22 01:56	1

Lab Sample ID: LCS 480-645723/29
Matrix: Water
Analysis Batch: 645723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.90		mg/L		100	90 - 110
Sulfate	50.0	50.22		mg/L		100	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-642790/27

Matrix: Water

Analysis Batch: 642790

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/26/22 11:13	1

Lab Sample ID: LCS 480-642790/28

Matrix: Water

Analysis Batch: 642790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.962		mg/L		96	90 - 110

Lab Sample ID: 480-201913-2 MS

Matrix: Water

Analysis Batch: 642790

Client Sample ID: MW-7-1-092222

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.010	J F1	0.200	0.176	F1	mg/L		83	90 - 110

Lab Sample ID: MB 480-643304/27

Matrix: Water

Analysis Batch: 643304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/29/22 08:55	1

Lab Sample ID: MB 480-643304/3

Matrix: Water

Analysis Batch: 643304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/29/22 08:29	1

Lab Sample ID: LCS 480-643304/28

Matrix: Water

Analysis Batch: 643304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.957		mg/L		96	90 - 110

Lab Sample ID: LCS 480-643304/4

Matrix: Water

Analysis Batch: 643304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.954		mg/L		95	90 - 110

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643304

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND	F1	0.200	0.137	F1	mg/L		69	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643304

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND	F1	0.200	0.137	F1	mg/L		69	90 - 110	0	20

Lab Sample ID: MB 480-643511/27

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/30/22 09:15	1

Lab Sample ID: MB 480-643511/3

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/30/22 08:49	1

Lab Sample ID: MB 480-643511/99

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			09/30/22 10:35	1

Lab Sample ID: LCS 480-643511/100

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: LCS 480-643511/28

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: LCS 480-643511/4

Matrix: Water

Analysis Batch: 643511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 480-202115-3 MS

Matrix: Water

Analysis Batch: 643511

Client Sample ID: MW-8-003-B-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.042		0.200	0.224		mg/L		91	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-202161-1 MS

Matrix: Water

Analysis Batch: 643511

Client Sample ID: MW-6-1-092922

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.0		0.200	2.06	4 E	mg/L		55	90 - 110

Lab Sample ID: 480-202161-1 DU

Matrix: Water

Analysis Batch: 643511

Client Sample ID: MW-6-1-092922

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	2.0		1.94		mg/L		0.5	20

Lab Sample ID: MB 480-644250/27

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0101	J	0.020	0.0090	mg/L			10/06/22 08:35	1

Lab Sample ID: MB 480-644250/3

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0107	J	0.020	0.0090	mg/L			10/06/22 08:09	1

Lab Sample ID: MB 480-644250/51

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0119	J	0.020	0.0090	mg/L			10/06/22 09:02	1

Lab Sample ID: MB 480-644250/75

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/06/22 09:28	1

Lab Sample ID: MB 480-644250/99

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0147	J	0.020	0.0090	mg/L			10/06/22 09:55	1

Lab Sample ID: LCS 480-644250/100

Matrix: Water

Analysis Batch: 644250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.09		mg/L		109	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-644250/28
Matrix: Water
Analysis Batch: 644250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: LCS 480-644250/4
Matrix: Water
Analysis Batch: 644250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: LCS 480-644250/52
Matrix: Water
Analysis Batch: 644250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.09		mg/L		109	90 - 110

Lab Sample ID: LCS 480-644250/76
Matrix: Water
Analysis Batch: 644250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.09		mg/L		109	90 - 110

Lab Sample ID: 480-202255-3 MS
Matrix: Water
Analysis Batch: 644250

Client Sample ID: BLDG-10-MW-1-100322
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.16	B F1	0.200	0.327	F1	mg/L		85	90 - 110

Lab Sample ID: MB 480-644297/27
Matrix: Water
Analysis Batch: 644297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0109	J	0.020	0.0090	mg/L			10/06/22 12:42	1

Lab Sample ID: LCS 480-644297/28
Matrix: Water
Analysis Batch: 644297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: 480-202381-3 MS
Matrix: Water
Analysis Batch: 644297

Client Sample ID: MW-7-A-6-100522
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.086	F1 B	0.200	0.225	F1	mg/L		70	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-202381-3 DU
Matrix: Water
Analysis Batch: 644297

Client Sample ID: MW-7-A-6-100522
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	0.086	F1 B	0.0848		mg/L		0.9	20

Lab Sample ID: MB 480-644835/27
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0144	J	0.020	0.0090	mg/L			10/11/22 07:44	1

Lab Sample ID: MB 480-644835/3
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0119	J	0.020	0.0090	mg/L			10/11/22 07:18	1

Lab Sample ID: MB 480-644835/51
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0146	J	0.020	0.0090	mg/L			10/11/22 08:11	1

Lab Sample ID: MB 480-644835/99
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0163	J	0.020	0.0090	mg/L			10/11/22 09:04	1

Lab Sample ID: LCS 480-644835/100
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-644835/28
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-644835/4
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-644835/52
Matrix: Water
Analysis Batch: 644835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 644835

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.050	B F1	0.200	0.209	F1	mg/L		79	90 - 110

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 644835

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.050	B F1	0.200	0.210	F1	mg/L		80	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-642653/3
Matrix: Water
Analysis Batch: 642653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			09/24/22 00:08	1

Lab Sample ID: LCS 480-642653/4
Matrix: Water
Analysis Batch: 642653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.53		mg/L		102	90 - 110

Lab Sample ID: MB 480-643022/27
Matrix: Water
Analysis Batch: 643022

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			09/27/22 20:33	1

Lab Sample ID: MB 480-643022/3
Matrix: Water
Analysis Batch: 643022

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			09/27/22 20:00	1

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 480-643022/28

Matrix: Water

Analysis Batch: 643022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.55		mg/L		103	90 - 110

Lab Sample ID: LCS 480-643022/4

Matrix: Water

Analysis Batch: 643022

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.54		mg/L		103	90 - 110

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643022

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND		1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643022

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite	ND		1.00	1.06		mg/L		106	90 - 110	1	20

Lab Sample ID: MB 480-643425/27

Matrix: Water

Analysis Batch: 643425

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			09/30/22 00:57	1

Lab Sample ID: MB 480-643425/3

Matrix: Water

Analysis Batch: 643425

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			09/30/22 00:24	1

Lab Sample ID: LCS 480-643425/28

Matrix: Water

Analysis Batch: 643425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.53		mg/L		102	90 - 110

Lab Sample ID: LCS 480-643425/4

Matrix: Water

Analysis Batch: 643425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.53		mg/L		102	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: 480-202115-2 MS

Matrix: Water

Analysis Batch: 643425

Client Sample ID: MW-8-4-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	0.028	J F1	1.00	0.886	F1	mg/L		86	90 - 110

Lab Sample ID: 480-202115-1 DU

Matrix: Water

Analysis Batch: 643425

Client Sample ID: MW-8-3-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-644009/27

Matrix: Water

Analysis Batch: 644009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/05/22 00:48	1

Lab Sample ID: MB 480-644009/3

Matrix: Water

Analysis Batch: 644009

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/05/22 00:15	1

Lab Sample ID: LCS 480-644009/28

Matrix: Water

Analysis Batch: 644009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.51		mg/L		101	90 - 110

Lab Sample ID: LCS 480-644009/4

Matrix: Water

Analysis Batch: 644009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.41		mg/L		94	90 - 110

Lab Sample ID: 480-202255-2 MS

Matrix: Water

Analysis Batch: 644009

Client Sample ID: TK-6-100322

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	F1	1.00	0.750	F1	mg/L		75	90 - 110

Lab Sample ID: MB 480-645406/27

Matrix: Water

Analysis Batch: 645406

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/13/22 22:02	1

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: LCS 480-645406/140
Matrix: Water
Analysis Batch: 645406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.58		mg/L		105	90 - 110

Lab Sample ID: LCS 480-645406/28
Matrix: Water
Analysis Batch: 645406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.53		mg/L		102	90 - 110

Lab Sample ID: LCS 480-645406/95
Matrix: Water
Analysis Batch: 645406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	1.50	1.55		mg/L		103	90 - 110

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 645406

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	H	1.00	1.04	H	mg/L		104	90 - 110

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 645406

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite	ND	H	1.00	1.05	H	mg/L		105	90 - 110	1	20

Lab Sample ID: 480-202483-1 MS
Matrix: Water
Analysis Batch: 645406

Client Sample ID: MW-7-8-100722
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	H	1.00	1.06		mg/L		106	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-642645/28
Matrix: Water
Analysis Batch: 642645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			09/23/22 21:04	1

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-642645/29

Matrix: Water

Analysis Batch: 642645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.51		mg/L		101	90 - 110

Lab Sample ID: 480-201913-3 MS

Matrix: Water

Analysis Batch: 642645

Client Sample ID: MW-7-4-092222

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.052		3.00	3.34		mg/L		110	90 - 110

Lab Sample ID: MB 480-643021/28

Matrix: Water

Analysis Batch: 643021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			09/27/22 17:46	1

Lab Sample ID: LCS 480-643021/29

Matrix: Water

Analysis Batch: 643021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.54		mg/L		103	90 - 110

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643021

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.28	F1	1.00	0.878	F1	mg/L		60	90 - 110

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643021

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.28	F1	1.00	0.873	F1	mg/L		60	90 - 110	1	20

Lab Sample ID: MB 480-643214/4

Matrix: Water

Analysis Batch: 643214

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			09/28/22 18:48	1

Lab Sample ID: MB 480-643214/52

Matrix: Water

Analysis Batch: 643214

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			09/28/22 19:54	1

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 480-643214/5

Matrix: Water

Analysis Batch: 643214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.54		mg/L		103	90 - 110

Lab Sample ID: LCS 480-643214/53

Matrix: Water

Analysis Batch: 643214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.53		mg/L		102	90 - 110

Lab Sample ID: 480-202074-3 MS

Matrix: Water

Analysis Batch: 643214

Client Sample ID: DUPLICATE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND		1.00	0.908		mg/L		91	90 - 110

Lab Sample ID: 480-202074-2 DU

Matrix: Water

Analysis Batch: 643214

Client Sample ID: MW-8-2-092722

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-643419/4

Matrix: Water

Analysis Batch: 643419

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			09/29/22 21:02	1

Lab Sample ID: MB 480-643419/76

Matrix: Water

Analysis Batch: 643419

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0303	J	0.050	0.020	mg/L			09/29/22 22:41	1

Lab Sample ID: LCS 480-643419/5

Matrix: Water

Analysis Batch: 643419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: LCS 480-643419/77

Matrix: Water

Analysis Batch: 643419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.48		mg/L		99	90 - 110

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 480-202115-2 MS

Matrix: Water

Analysis Batch: 643419

Client Sample ID: MW-8-4-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.056	F1	1.00	1.47	F1	mg/L		141	90 - 110

Lab Sample ID: 480-202115-1 DU

Matrix: Water

Analysis Batch: 643419

Client Sample ID: MW-8-3-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.10		0.110		mg/L		6	20

Lab Sample ID: MB 480-644006/124

Matrix: Water

Analysis Batch: 644006

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/04/22 22:16	1

Lab Sample ID: MB 480-644006/52

Matrix: Water

Analysis Batch: 644006

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/04/22 20:37	1

Lab Sample ID: LCS 480-644006/125

Matrix: Water

Analysis Batch: 644006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.52		mg/L		101	90 - 110

Lab Sample ID: LCS 480-644006/53

Matrix: Water

Analysis Batch: 644006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.47		mg/L		98	90 - 110

Lab Sample ID: 480-202304-2 MS

Matrix: Water

Analysis Batch: 644006

Client Sample ID: MW-7-C-2-100422

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND	F1	1.00	0.369	F1	mg/L		37	90 - 110

Lab Sample ID: 480-202304-3 DU

Matrix: Water

Analysis Batch: 644006

Client Sample ID: MW-7-7-100422

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	20

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-644360/73
Matrix: Water
Analysis Batch: 644360

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/07/22 00:14	1

Lab Sample ID: LCS 480-644360/74
Matrix: Water
Analysis Batch: 644360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.53		mg/L		102	90 - 110

Lab Sample ID: MB 480-644548/28
Matrix: Water
Analysis Batch: 644548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/07/22 17:56	1

Lab Sample ID: MB 480-644548/4
Matrix: Water
Analysis Batch: 644548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/07/22 17:23	1

Lab Sample ID: LCS 480-644548/29
Matrix: Water
Analysis Batch: 644548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.61		mg/L		107	90 - 110

Lab Sample ID: LCS 480-644548/5
Matrix: Water
Analysis Batch: 644548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.61		mg/L		107	90 - 110

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 644548

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.058	F1	1.00	0.930	F1	mg/L		87	90 - 110

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 644548

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.058	F1	1.00	1.05		mg/L		99	90 - 110	12	20

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-644574/4
Matrix: Water
Analysis Batch: 644574

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/08/22 15:02	1

Lab Sample ID: LCS 480-644574/5
Matrix: Water
Analysis Batch: 644574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.49		mg/L		99	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-643394/4
Matrix: Water
Analysis Batch: 643394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			09/28/22 11:40	1

Lab Sample ID: LCS 480-643394/5
Matrix: Water
Analysis Batch: 643394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	60.61		mg/L		101	90 - 110

Lab Sample ID: 480-201913-2 DU
Matrix: Water
Analysis Batch: 643394

Client Sample ID: MW-7-1-092222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.4		2.17		mg/L		9	20

Lab Sample ID: MB 480-643672/76
Matrix: Water
Analysis Batch: 643672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/02/22 06:38	1

Lab Sample ID: LCS 480-643672/77
Matrix: Water
Analysis Batch: 643672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	59.79		mg/L		100	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643672

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	1.2		23.3	25.17		mg/L		103	54 - 131		

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643672

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	1.2		23.3	25.31		mg/L		104	54 - 131	1	20

Lab Sample ID: MB 480-644437/76

Matrix: Water

Analysis Batch: 644437

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/07/22 04:12	1

Lab Sample ID: LCS 480-644437/77

Matrix: Water

Analysis Batch: 644437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	60.0	58.90		mg/L		98	90 - 110		

Lab Sample ID: 480-202304-2 MS

Matrix: Water

Analysis Batch: 644437

Client Sample ID: MW-7-C-2-100422

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	2.7		23.3	27.17		mg/L		105	54 - 131		

Lab Sample ID: 480-202304-3 DU

Matrix: Water

Analysis Batch: 644437

Client Sample ID: MW-7-7-100422

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	8.6		8.37		mg/L		3	20

Lab Sample ID: MB 480-645783/52

Matrix: Water

Analysis Batch: 645783

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/14/22 15:22	1

Lab Sample ID: LCS 480-645783/53

Matrix: Water

Analysis Batch: 645783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	60.0	58.03		mg/L		97	90 - 110		

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: 480-202434-1 MS

Matrix: Water

Analysis Batch: 645783

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	2.8		23.3	20.27		mg/L		75	54 - 131

Lab Sample ID: 480-202434-1 MSD

Matrix: Water

Analysis Batch: 645783

Client Sample ID: MW-7-6-100622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	2.8		23.3	20.53		mg/L		76	54 - 131	1	20

Lab Sample ID: MB 480-646366/37

Matrix: Water

Analysis Batch: 646366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/18/22 14:51	1

Lab Sample ID: LCS 480-646366/38

Matrix: Water

Analysis Batch: 646366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	61.94		mg/L		103	90 - 110

Lab Sample ID: 480-202115-1 MS

Matrix: Water

Analysis Batch: 646366

Client Sample ID: MW-8-3-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.8		23.3	34.56		mg/L		106	54 - 131

Lab Sample ID: 480-202255-1 MS

Matrix: Water

Analysis Batch: 646366

Client Sample ID: MW-10-2-100322

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.7		23.3	25.22		mg/L		101	54 - 131

Lab Sample ID: 480-202115-2 DU

Matrix: Water

Analysis Batch: 646366

Client Sample ID: MW-8-4-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.4		2.52		mg/L		3	20

Lab Sample ID: 480-202255-2 DU

Matrix: Water

Analysis Batch: 646366

Client Sample ID: TK-6-100322

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.63	J	0.680	J	mg/L		8	20

Eurofins Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-644289/4
Matrix: Water
Analysis Batch: 644289

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND	^1+	5.0	0.79	mg/L			10/05/22 17:48	1

Lab Sample ID: LCS 480-644289/5
Matrix: Water
Analysis Batch: 644289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	106.7	^1+	mg/L		107	90 - 110

Lab Sample ID: MB 480-644613/4
Matrix: Water
Analysis Batch: 644613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/07/22 16:02	1

Lab Sample ID: LCS 480-644613/5
Matrix: Water
Analysis Batch: 644613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	95.92		mg/L		96	90 - 110

Lab Sample ID: MB 480-645112/28
Matrix: Water
Analysis Batch: 645112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/11/22 12:44	1

Lab Sample ID: MB 480-645112/4
Matrix: Water
Analysis Batch: 645112

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/10/22 17:16	1

Lab Sample ID: LCS 480-645112/29
Matrix: Water
Analysis Batch: 645112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	97.76		mg/L		98	90 - 110

Lab Sample ID: LCS 480-645112/5
Matrix: Water
Analysis Batch: 645112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	98.00		mg/L		98	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: 480-202074-3 MS

Matrix: Water

Analysis Batch: 645112

Client Sample ID: DUPLICATE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	361	F1	100	418.0	F1	mg/L		57	60 - 140

Lab Sample ID: 480-202074-3 MSD

Matrix: Water

Analysis Batch: 645112

Client Sample ID: DUPLICATE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	361	F1	100	421.0		mg/L		60	60 - 140	1	20

Lab Sample ID: MB 480-645802/28

Matrix: Water

Analysis Batch: 645802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.88	J	5.0	0.79	mg/L			10/15/22 20:05	1

Lab Sample ID: MB 480-645802/4

Matrix: Water

Analysis Batch: 645802

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	15.68		5.0	0.79	mg/L			10/15/22 16:50	1

Lab Sample ID: LCS 480-645802/29

Matrix: Water

Analysis Batch: 645802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	95.60		mg/L		96	90 - 110

Lab Sample ID: LCS 480-645802/5

Matrix: Water

Analysis Batch: 645802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	95.92		mg/L		96	90 - 110

Lab Sample ID: 480-202255-1 MS

Matrix: Water

Analysis Batch: 645802

Client Sample ID: MW-10-2-100322

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	286	F1 B ^2	100	338.6	F1	mg/L		52	60 - 140

Lab Sample ID: 480-202381-1 DU

Matrix: Water

Analysis Batch: 645802

Client Sample ID: MW-7-3-100522

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	413	B	406.6		mg/L		2	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-646002/28
Matrix: Water
Analysis Batch: 646002

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	2.08	J	5.0	0.79	mg/L			10/17/22 20:24	1

Lab Sample ID: LCS 480-646002/29
Matrix: Water
Analysis Batch: 646002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	92.88		mg/L		93	90 - 110

Lab Sample ID: 480-202381-3 MS
Matrix: Water
Analysis Batch: 646002

Client Sample ID: MW-7-A-6-100522
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	502	B ^2	100	561.0	4	mg/L		59	60 - 140

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-642668/27
Matrix: Water
Analysis Batch: 642668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			09/24/22 16:19	1

Lab Sample ID: LCS 480-642668/28
Matrix: Water
Analysis Batch: 642668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.60	8.40		mg/L		98	90 - 110

Lab Sample ID: MB 480-643117/3
Matrix: Water
Analysis Batch: 643117

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			09/28/22 10:20	1

Lab Sample ID: LCS 480-643117/4
Matrix: Water
Analysis Batch: 643117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.60	8.80		mg/L		102	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: 480-202047-3 MS

Matrix: Water

Analysis Batch: 643117

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		9.00	11.60		mg/L		129	40 - 150

Lab Sample ID: 480-202047-3 MSD

Matrix: Water

Analysis Batch: 643117

Client Sample ID: MW-10-3-092622

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		9.00	11.20		mg/L		124	40 - 150	4	20

Lab Sample ID: MB 480-643515/27

Matrix: Water

Analysis Batch: 643515

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Lab Sample ID: MB 480-643515/3

Matrix: Water

Analysis Batch: 643515

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			09/30/22 10:35	1

Lab Sample ID: LCS 480-643515/28

Matrix: Water

Analysis Batch: 643515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	9.20	9.20		mg/L		100	90 - 110

Lab Sample ID: LCS 480-643515/4

Matrix: Water

Analysis Batch: 643515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	9.20	9.20		mg/L		100	90 - 110

Lab Sample ID: 480-202115-3 DU

Matrix: Water

Analysis Batch: 643515

Client Sample ID: MW-8-003-B-092822

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-643738/3

Matrix: Water

Analysis Batch: 643738

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/03/22 11:10	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 480-643738/4
Matrix: Water
Analysis Batch: 643738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	9.20	9.20		mg/L		100	90 - 110

Lab Sample ID: MB 480-644283/3
Matrix: Water
Analysis Batch: 644283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/06/22 10:44	1

Lab Sample ID: LCS 480-644283/4
Matrix: Water
Analysis Batch: 644283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	9.20	9.20		mg/L		100	90 - 110

Lab Sample ID: MB 480-644913/27
Matrix: Water
Analysis Batch: 644913

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Lab Sample ID: MB 480-644913/3
Matrix: Water
Analysis Batch: 644913

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/11/22 12:00	1

Lab Sample ID: LCS 480-644913/28
Matrix: Water
Analysis Batch: 644913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.20	8.00		mg/L		98	90 - 110

Lab Sample ID: LCS 480-644913/4
Matrix: Water
Analysis Batch: 644913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.20	8.40		mg/L		102	90 - 110

Lab Sample ID: MB 480-645103/3
Matrix: Water
Analysis Batch: 645103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/12/22 11:06	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 480-645103/4
Matrix: Water
Analysis Batch: 645103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.20	8.00		mg/L		98	90 - 110

Lab Sample ID: 480-202434-1 MS
Matrix: Water
Analysis Batch: 645103

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		7.40	9.20		mg/L		124	40 - 150

Lab Sample ID: 480-202434-1 MSD
Matrix: Water
Analysis Batch: 645103

Client Sample ID: MW-7-6-100622
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		7.40	9.20		mg/L		124	40 - 150	0	20

Lab Sample ID: MB 480-645493/3
Matrix: Water
Analysis Batch: 645493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/14/22 10:21	1

Lab Sample ID: LCS 480-645493/4
Matrix: Water
Analysis Batch: 645493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	8.60	8.40		mg/L		98	90 - 110

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC/MS VOA

Analysis Batch: 642778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	8260C	
480-201913-3	MW-7-4-092222	Total/NA	Water	8260C	
480-201913-4	Trip Blank-092222	Total/NA	Water	8260C	
MB 480-642778/8	Method Blank	Total/NA	Water	8260C	
LCS 480-642778/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 642968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	8260C	
480-202047-2	MW-9-101A-092622	Total/NA	Water	8260C	
480-202047-3	MW-10-3-092622	Total/NA	Water	8260C	
MB 480-642968/8	Method Blank	Total/NA	Water	8260C	
LCS 480-642968/6	Lab Control Sample	Total/NA	Water	8260C	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	8260C	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	8260C	

Analysis Batch: 643152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	8260C	
480-202074-2	MW-8-2-092722	Total/NA	Water	8260C	
480-202074-3	DUPLICATE-1	Total/NA	Water	8260C	
480-202074-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-643152/9	Method Blank	Total/NA	Water	8260C	
LCS 480-643152/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-643152/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 643447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	8260C	
480-202115-2	MW-8-4-092822	Total/NA	Water	8260C	
480-202115-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-643447/8	Method Blank	Total/NA	Water	8260C	
LCS 480-643447/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-643447/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 643837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	8260C	
480-202161-2	MW-6-2-092922	Total/NA	Water	8260C	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	8260C	
480-202161-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-643837/7	Method Blank	Total/NA	Water	8260C	
LCS 480-643837/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 644494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-3	MW-8-003-B-092822	Total/NA	Water	8260C	
MB 480-644494/13	Method Blank	Total/NA	Water	8260C	
LCS 480-644494/9	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-644494/34	Lab Control Sample Dup	Total/NA	Water	8260C	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC/MS VOA

Analysis Batch: 644817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-2	TK-6-100322	Total/NA	Water	8260C	
480-202255-5	TRIP BLANK	Total/NA	Water	8260C	
480-202304-4	Trip Blank-100422	Total/NA	Water	8260C	
MB 480-644817/10	Method Blank	Total/NA	Water	8260C	
LCS 480-644817/58	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 644919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	8260C	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	8260C	
480-202255-4	DUPLICATE-2	Total/NA	Water	8260C	
480-202304-1	MW-7-2-100422	Total/NA	Water	8260C	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	8260C	
480-202304-3	MW-7-7-100422	Total/NA	Water	8260C	
MB 480-644919/11	Method Blank	Total/NA	Water	8260C	
LCS 480-644919/9	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 645313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	8260C	
480-202483-2	TRIP BLANK	Total/NA	Water	8260C	
MB 480-645313/8	Method Blank	Total/NA	Water	8260C	
LCS 480-645313/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 645608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	8260C	
480-202381-2	MW-7-5-100522	Total/NA	Water	8260C	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	8260C	
480-202381-4	TripBlank-100522	Total/NA	Water	8260C	
480-202434-1	MW-7-6-100622	Total/NA	Water	8260C	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	8260C	
480-202434-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-645608/7	Method Blank	Total/NA	Water	8260C	
LCS 480-645608/5	Lab Control Sample	Total/NA	Water	8260C	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	8260C	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	8260C	

Analysis Batch: 645911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-2 - DL	MW-7-5-100522	Total/NA	Water	8260C	
MB 480-645911/8	Method Blank	Total/NA	Water	8260C	
LCS 480-645911/6	Lab Control Sample	Total/NA	Water	8260C	
480-202381-2 MS	MW-7-5-100522	Total/NA	Water	8260C	
480-202381-2 MSD	MW-7-5-100522	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 643252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	3510C	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC/MS Semi VOA (Continued)

Prep Batch: 643252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-2	MW-9-101A-092622	Total/NA	Water	3510C	
MB 480-643252/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-643252/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 643480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	8270D	643252
480-202047-2	MW-9-101A-092622	Total/NA	Water	8270D	643252
MB 480-643252/1-A	Method Blank	Total/NA	Water	8270D	643252
LCS 480-643252/2-A	Lab Control Sample	Total/NA	Water	8270D	643252

GC VOA

Analysis Batch: 184061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	RSK-175	
480-201913-3	MW-7-4-092222	Total/NA	Water	RSK-175	
MB 200-184061/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184061/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-184061/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 184225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	RSK-175	
480-202047-2	MW-9-101A-092622	Total/NA	Water	RSK-175	
480-202047-3	MW-10-3-092622	Total/NA	Water	RSK-175	
MB 200-184225/3	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184225/2	Lab Control Sample	Total/NA	Water	RSK-175	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	RSK-175	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	RSK-175	

Analysis Batch: 184264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	RSK-175	
480-202074-2	MW-8-2-092722	Total/NA	Water	RSK-175	
480-202074-3	DUPLICATE-1	Total/NA	Water	RSK-175	
MB 200-184264/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184264/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-184264/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 184322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	RSK-175	
480-202115-2	MW-8-4-092822	Total/NA	Water	RSK-175	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	RSK-175	
480-202161-1	MW-6-1-092922	Total/NA	Water	RSK-175	
480-202161-2	MW-6-2-092922	Total/NA	Water	RSK-175	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	RSK-175	
MB 200-184322/3	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184322/2	Lab Control Sample	Total/NA	Water	RSK-175	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC VOA

Analysis Batch: 184419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	RSK-175	
480-202255-2	TK-6-100322	Total/NA	Water	RSK-175	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	RSK-175	
480-202255-4	DUPLICATE-2	Total/NA	Water	RSK-175	
480-202304-1	MW-7-2-100422	Total/NA	Water	RSK-175	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	RSK-175	
480-202304-3	MW-7-7-100422	Total/NA	Water	RSK-175	
MB 200-184419/28	Method Blank	Total/NA	Water	RSK-175	
MB 200-184419/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184419/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 200-184419/26	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-184419/27	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 200-184419/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 184469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	RSK-175	
480-202381-2	MW-7-5-100522	Total/NA	Water	RSK-175	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	RSK-175	
480-202434-1	MW-7-6-100622	Total/NA	Water	RSK-175	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	RSK-175	
MB 200-184469/3	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184469/2	Lab Control Sample	Total/NA	Water	RSK-175	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	RSK-175	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	RSK-175	

Analysis Batch: 184596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-3 - DL	MW-7-A-6-100522	Total/NA	Water	RSK-175	

Analysis Batch: 184657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	RSK-175	
MB 200-184657/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-184657/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-184657/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 642681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	RSK-175	
480-201913-3	MW-7-4-092222	Total/NA	Water	RSK-175	
MB 480-642681/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-642681/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-642681/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 642965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-3	MW-10-3-092622	Total/NA	Water	RSK-175	
MB 480-642965/5	Method Blank	Total/NA	Water	RSK-175	
LCS 480-642965/6	Lab Control Sample	Total/NA	Water	RSK-175	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	RSK-175	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC VOA (Continued)

Analysis Batch: 642965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	RSK-175	

Analysis Batch: 643176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	RSK-175	
480-202047-2	MW-9-101A-092622	Total/NA	Water	RSK-175	
480-202074-1	MW-8-1-092722	Total/NA	Water	RSK-175	
480-202074-2	MW-8-2-092722	Total/NA	Water	RSK-175	
480-202074-3	DUPLICATE-1	Total/NA	Water	RSK-175	
MB 480-643176/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-643176/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-643176/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 643247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	RSK-175	
480-202115-2	MW-8-4-092822	Total/NA	Water	RSK-175	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	RSK-175	
MB 480-643247/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-643247/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-643247/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 643493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	RSK-175	
480-202161-2	MW-6-2-092922	Total/NA	Water	RSK-175	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	RSK-175	
MB 480-643493/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-643493/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-643493/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 643929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	RSK-175	
480-202255-2	TK-6-100322	Total/NA	Water	RSK-175	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	RSK-175	
480-202255-4	DUPLICATE-2	Total/NA	Water	RSK-175	
480-202304-1	MW-7-2-100422	Total/NA	Water	RSK-175	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	RSK-175	
480-202304-3	MW-7-7-100422	Total/NA	Water	RSK-175	
MB 480-643929/27	Method Blank	Total/NA	Water	RSK-175	
MB 480-643929/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-643929/28	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 480-643929/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-643929/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 644300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	RSK-175	
480-202381-2	MW-7-5-100522	Total/NA	Water	RSK-175	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	RSK-175	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

GC VOA (Continued)

Analysis Batch: 644300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-3 - DL	MW-7-A-6-100522	Total/NA	Water	RSK-175	
MB 480-644300/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-644300/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-644300/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 644615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	RSK-175	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	RSK-175	
480-202434-2 - DL	MW-7-P-1-100622	Total/NA	Water	RSK-175	
480-202483-1	MW-7-8-100722	Total/NA	Water	RSK-175	
MB 480-644615/27	Method Blank	Total/NA	Water	RSK-175	
MB 480-644615/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-644615/28	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 480-644615/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-644615/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	RSK-175	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	RSK-175	

Metals

Prep Batch: 642627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	3005A	
480-201913-3	MW-7-4-092222	Total/NA	Water	3005A	
MB 480-642627/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-642627/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 642995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	3005A	
480-202047-2	MW-9-101A-092622	Total/NA	Water	3005A	
480-202047-3	MW-10-3-092622	Total/NA	Water	3005A	
MB 480-642995/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-642995/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	3005A	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	3005A	

Analysis Batch: 643069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	6010C	642627
480-201913-3	MW-7-4-092222	Total/NA	Water	6010C	642627
MB 480-642627/1-A	Method Blank	Total/NA	Water	6010C	642627
LCS 480-642627/2-A	Lab Control Sample	Total/NA	Water	6010C	642627

Prep Batch: 643174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	3005A	
480-202074-2	MW-8-2-092722	Total/NA	Water	3005A	
480-202074-3	DUPLICATE-1	Total/NA	Water	3005A	
MB 480-643174/1-A	Method Blank	Total/NA	Water	3005A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Metals (Continued)

Prep Batch: 643174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-643174/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-202074-1 MS	MW-8-1-092722	Total/NA	Water	3005A	
480-202074-1 MSD	MW-8-1-092722	Total/NA	Water	3005A	

Analysis Batch: 643285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	6010C	642995
480-202047-2	MW-9-101A-092622	Total/NA	Water	6010C	642995
480-202047-3	MW-10-3-092622	Total/NA	Water	6010C	642995
MB 480-642995/1-A	Method Blank	Total/NA	Water	6010C	642995
LCS 480-642995/2-A	Lab Control Sample	Total/NA	Water	6010C	642995
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	6010C	642995
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	6010C	642995

Analysis Batch: 643294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	6010C	642627

Prep Batch: 643358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	3005A	
480-201913-3	MW-7-4-092222	Total/NA	Water	3005A	
480-202115-1	MW-8-3-092822	Total/NA	Water	3005A	
480-202115-2	MW-8-4-092822	Total/NA	Water	3005A	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	3005A	
MB 480-643358/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-643358/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-202115-1 MS	MW-8-3-092822	Total/NA	Water	3005A	
480-202115-1 MSD	MW-8-3-092822	Total/NA	Water	3005A	

Analysis Batch: 643460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	6010C	643174
480-202074-2	MW-8-2-092722	Total/NA	Water	6010C	643174
480-202074-3	DUPLICATE-1	Total/NA	Water	6010C	643174
MB 480-643174/1-A	Method Blank	Total/NA	Water	6010C	643174
LCS 480-643174/2-A	Lab Control Sample	Total/NA	Water	6010C	643174
480-202074-1 MS	MW-8-1-092722	Total/NA	Water	6010C	643174
480-202074-1 MSD	MW-8-1-092722	Total/NA	Water	6010C	643174

Analysis Batch: 643507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-2	MW-9-101A-092622	Total/NA	Water	6010C	642995

Prep Batch: 643549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	3005A	
480-202161-2	MW-6-2-092922	Total/NA	Water	3005A	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	3005A	
MB 480-643549/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-643549/2-A	Lab Control Sample	Total/NA	Water	3005A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Metals

Analysis Batch: 643708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	6010C	643358
480-201913-3	MW-7-4-092222	Total/NA	Water	6010C	643358
480-202115-1	MW-8-3-092822	Total/NA	Water	6010C	643358
480-202115-2	MW-8-4-092822	Total/NA	Water	6010C	643358
480-202115-3	MW-8-003-B-092822	Total/NA	Water	6010C	643358
MB 480-643358/1-A	Method Blank	Total/NA	Water	6010C	643358
LCS 480-643358/2-A	Lab Control Sample	Total/NA	Water	6010C	643358
480-202115-1 MS	MW-8-3-092822	Total/NA	Water	6010C	643358
480-202115-1 MSD	MW-8-3-092822	Total/NA	Water	6010C	643358

Analysis Batch: 643873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	6010C	643549
480-202161-2	MW-6-2-092922	Total/NA	Water	6010C	643549
480-202161-3	MW-6-F-8-092922	Total/NA	Water	6010C	643549
MB 480-643549/1-A	Method Blank	Total/NA	Water	6010C	643549
LCS 480-643549/2-A	Lab Control Sample	Total/NA	Water	6010C	643549

Analysis Batch: 643876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-2	MW-8-4-092822	Total/NA	Water	6010C	643358
480-202115-3	MW-8-003-B-092822	Total/NA	Water	6010C	643358

Prep Batch: 643956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	3005A	
480-202255-2	TK-6-100322	Total/NA	Water	3005A	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	3005A	
480-202255-4	DUPLICATE-2	Total/NA	Water	3005A	
MB 480-643956/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-643956/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-643956/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 644058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-3	MW-6-F-8-092922	Total/NA	Water	6010C	643549

Prep Batch: 644116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-1	MW-7-2-100422	Total/NA	Water	3005A	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	3005A	
480-202304-3	MW-7-7-100422	Total/NA	Water	3005A	
MB 480-644116/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-644116/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 644226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	6010C	643956
480-202255-2	TK-6-100322	Total/NA	Water	6010C	643956
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	6010C	643956
480-202255-4	DUPLICATE-2	Total/NA	Water	6010C	643956

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Metals (Continued)

Analysis Batch: 644226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-643956/1-A	Method Blank	Total/NA	Water	6010C	643956
LCS 480-643956/2-A	Lab Control Sample	Total/NA	Water	6010C	643956
LCSD 480-643956/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	643956

Prep Batch: 644327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	3005A	
480-202381-2	MW-7-5-100522	Total/NA	Water	3005A	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	3005A	
MB 480-644327/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-644327/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-644327/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 644402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-1	MW-7-2-100422	Total/NA	Water	6010C	644116
480-202304-2	MW-7-C-2-100422	Total/NA	Water	6010C	644116
480-202304-3	MW-7-7-100422	Total/NA	Water	6010C	644116
MB 480-644116/1-A	Method Blank	Total/NA	Water	6010C	644116
LCS 480-644116/2-A	Lab Control Sample	Total/NA	Water	6010C	644116

Analysis Batch: 644410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	6010C	643956
480-202255-2	TK-6-100322	Total/NA	Water	6010C	643956

Analysis Batch: 644676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	6010C	644327
480-202381-2	MW-7-5-100522	Total/NA	Water	6010C	644327
480-202381-3	MW-7-A-6-100522	Total/NA	Water	6010C	644327
MB 480-644327/1-A	Method Blank	Total/NA	Water	6010C	644327
LCS 480-644327/2-A	Lab Control Sample	Total/NA	Water	6010C	644327
LCSD 480-644327/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	644327

Prep Batch: 644708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	3005A	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	3005A	
MB 480-644708/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-644708/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	3005A	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	3005A	

Prep Batch: 644760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	3005A	
MB 480-644760/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-644760/2-A	Lab Control Sample	Total/NA	Water	3005A	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Metals

Analysis Batch: 644840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-3	MW-7-7-100422	Total/NA	Water	6010C	644116

Analysis Batch: 644848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	6010C	644327
480-202381-2	MW-7-5-100522	Total/NA	Water	6010C	644327

Analysis Batch: 645252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	6010C	644708
480-202434-2	MW-7-P-1-100622	Total/NA	Water	6010C	644708
MB 480-644708/1-A	Method Blank	Total/NA	Water	6010C	644708
LCS 480-644708/2-A	Lab Control Sample	Total/NA	Water	6010C	644708
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	6010C	644708
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	6010C	644708

Analysis Batch: 645551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	6010C	644708
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	6010C	644708
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	6010C	644708

Analysis Batch: 646704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	6010C	644760
480-202483-1	MW-7-8-100722	Total/NA	Water	6010C	644760
MB 480-644760/1-A	Method Blank	Total/NA	Water	6010C	644760
LCS 480-644760/2-A	Lab Control Sample	Total/NA	Water	6010C	644760

General Chemistry

Analysis Batch: 642645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	353.2	
480-201913-3	MW-7-4-092222	Total/NA	Water	353.2	
MB 480-642645/28	Method Blank	Total/NA	Water	353.2	
LCS 480-642645/29	Lab Control Sample	Total/NA	Water	353.2	
480-201913-3 MS	MW-7-4-092222	Total/NA	Water	353.2	

Analysis Batch: 642653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-3	MW-7-4-092222	Total/NA	Water	353.2	
MB 480-642653/3	Method Blank	Total/NA	Water	353.2	
LCS 480-642653/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 642655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	353.2	
480-201913-3	MW-7-4-092222	Total/NA	Water	353.2	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry

Analysis Batch: 642656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	353.2	

Analysis Batch: 642668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	SM 4500 S2 F	
480-201913-3	MW-7-4-092222	Total/NA	Water	SM 4500 S2 F	
MB 480-642668/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-642668/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 642790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	350.1	
480-201913-3	MW-7-4-092222	Total/NA	Water	350.1	
MB 480-642790/27	Method Blank	Total/NA	Water	350.1	
LCS 480-642790/28	Lab Control Sample	Total/NA	Water	350.1	
480-201913-2 MS	MW-7-1-092222	Total/NA	Water	350.1	

Analysis Batch: 643021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	353.2	
480-202047-2	MW-9-101A-092622	Total/NA	Water	353.2	
480-202047-3	MW-10-3-092622	Total/NA	Water	353.2	
MB 480-643021/28	Method Blank	Total/NA	Water	353.2	
LCS 480-643021/29	Lab Control Sample	Total/NA	Water	353.2	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	353.2	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	353.2	

Analysis Batch: 643022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	353.2	
480-202047-2	MW-9-101A-092622	Total/NA	Water	353.2	
480-202047-3	MW-10-3-092622	Total/NA	Water	353.2	
MB 480-643022/27	Method Blank	Total/NA	Water	353.2	
MB 480-643022/3	Method Blank	Total/NA	Water	353.2	
LCS 480-643022/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-643022/4	Lab Control Sample	Total/NA	Water	353.2	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	353.2	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	353.2	

Analysis Batch: 643028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	353.2	
480-202047-2	MW-9-101A-092622	Total/NA	Water	353.2	
480-202047-3	MW-10-3-092622	Total/NA	Water	353.2	

Analysis Batch: 643117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	SM 4500 S2 F	
480-202047-2	MW-9-101A-092622	Total/NA	Water	SM 4500 S2 F	
480-202047-3	MW-10-3-092622	Total/NA	Water	SM 4500 S2 F	
MB 480-643117/3	Method Blank	Total/NA	Water	SM 4500 S2 F	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 643117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-643117/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	SM 4500 S2 F	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 643214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	353.2	
480-202074-2	MW-8-2-092722	Total/NA	Water	353.2	
480-202074-3	DUPLICATE-1	Total/NA	Water	353.2	
MB 480-643214/4	Method Blank	Total/NA	Water	353.2	
MB 480-643214/52	Method Blank	Total/NA	Water	353.2	
LCS 480-643214/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-643214/53	Lab Control Sample	Total/NA	Water	353.2	
480-202074-3 MS	DUPLICATE-1	Total/NA	Water	353.2	
480-202074-2 DU	MW-8-2-092722	Total/NA	Water	353.2	

Analysis Batch: 643227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	353.2	
480-202074-2	MW-8-2-092722	Total/NA	Water	353.2	
480-202074-3	DUPLICATE-1	Total/NA	Water	353.2	

Analysis Batch: 643228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	353.2	
480-202074-2	MW-8-2-092722	Total/NA	Water	353.2	
480-202074-3	DUPLICATE-1	Total/NA	Water	353.2	

Analysis Batch: 643304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	350.1	
480-202047-2	MW-9-101A-092622	Total/NA	Water	350.1	
480-202047-3	MW-10-3-092622	Total/NA	Water	350.1	
480-202074-1	MW-8-1-092722	Total/NA	Water	350.1	
480-202074-2	MW-8-2-092722	Total/NA	Water	350.1	
480-202074-3	DUPLICATE-1	Total/NA	Water	350.1	
MB 480-643304/27	Method Blank	Total/NA	Water	350.1	
MB 480-643304/3	Method Blank	Total/NA	Water	350.1	
LCS 480-643304/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-643304/4	Lab Control Sample	Total/NA	Water	350.1	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	350.1	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	350.1	

Analysis Batch: 643308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	300.0	
480-201913-3	MW-7-4-092222	Total/NA	Water	300.0	
MB 480-643308/4	Method Blank	Total/NA	Water	300.0	
LCS 480-643308/5	Lab Control Sample	Total/NA	Water	300.0	
480-201913-3 MS	MW-7-4-092222	Total/NA	Water	300.0	
480-201913-3 MSD	MW-7-4-092222	Total/NA	Water	300.0	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry

Analysis Batch: 643394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	9060A	
480-201913-3	MW-7-4-092222	Total/NA	Water	9060A	
MB 480-643394/4	Method Blank	Total/NA	Water	9060A	
LCS 480-643394/5	Lab Control Sample	Total/NA	Water	9060A	
480-201913-2 DU	MW-7-1-092222	Total/NA	Water	9060A	

Analysis Batch: 643419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	353.2	
480-202115-2	MW-8-4-092822	Total/NA	Water	353.2	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	353.2	
480-202161-1	MW-6-1-092922	Total/NA	Water	353.2	
480-202161-2	MW-6-2-092922	Total/NA	Water	353.2	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	353.2	
MB 480-643419/4	Method Blank	Total/NA	Water	353.2	
MB 480-643419/76	Method Blank	Total/NA	Water	353.2	
LCS 480-643419/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-643419/77	Lab Control Sample	Total/NA	Water	353.2	
480-202115-2 MS	MW-8-4-092822	Total/NA	Water	353.2	
480-202115-1 DU	MW-8-3-092822	Total/NA	Water	353.2	

Analysis Batch: 643423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	353.2	
480-202115-2	MW-8-4-092822	Total/NA	Water	353.2	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	353.2	
480-202161-1	MW-6-1-092922	Total/NA	Water	353.2	
480-202161-2	MW-6-2-092922	Total/NA	Water	353.2	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	353.2	

Analysis Batch: 643424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-2	MW-6-2-092922	Total/NA	Water	353.2	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	353.2	

Analysis Batch: 643425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	353.2	
480-202115-2	MW-8-4-092822	Total/NA	Water	353.2	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	353.2	
480-202161-1	MW-6-1-092922	Total/NA	Water	353.2	
MB 480-643425/27	Method Blank	Total/NA	Water	353.2	
MB 480-643425/3	Method Blank	Total/NA	Water	353.2	
LCS 480-643425/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-643425/4	Lab Control Sample	Total/NA	Water	353.2	
480-202115-2 MS	MW-8-4-092822	Total/NA	Water	353.2	
480-202115-1 DU	MW-8-3-092822	Total/NA	Water	353.2	

Analysis Batch: 643511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	350.1	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 643511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-2	MW-8-4-092822	Total/NA	Water	350.1	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	350.1	
480-202161-1	MW-6-1-092922	Total/NA	Water	350.1	
480-202161-2	MW-6-2-092922	Total/NA	Water	350.1	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	350.1	
MB 480-643511/27	Method Blank	Total/NA	Water	350.1	
MB 480-643511/3	Method Blank	Total/NA	Water	350.1	
MB 480-643511/99	Method Blank	Total/NA	Water	350.1	
LCS 480-643511/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-643511/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-643511/4	Lab Control Sample	Total/NA	Water	350.1	
480-202115-3 MS	MW-8-003-B-092822	Total/NA	Water	350.1	
480-202161-1 MS	MW-6-1-092922	Total/NA	Water	350.1	
480-202161-1 DU	MW-6-1-092922	Total/NA	Water	350.1	

Analysis Batch: 643515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	SM 4500 S2 F	
480-202074-2	MW-8-2-092722	Total/NA	Water	SM 4500 S2 F	
480-202074-3	DUPLICATE-1	Total/NA	Water	SM 4500 S2 F	
480-202115-1	MW-8-3-092822	Total/NA	Water	SM 4500 S2 F	
480-202115-2	MW-8-4-092822	Total/NA	Water	SM 4500 S2 F	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	SM 4500 S2 F	
MB 480-643515/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-643515/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-643515/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-643515/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-202115-3 DU	MW-8-003-B-092822	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 643518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	300.0	
480-202047-2	MW-9-101A-092622	Total/NA	Water	300.0	
480-202047-3	MW-10-3-092622	Total/NA	Water	300.0	
MB 480-643518/28	Method Blank	Total/NA	Water	300.0	
MB 480-643518/4	Method Blank	Total/NA	Water	300.0	
LCS 480-643518/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-643518/5	Lab Control Sample	Total/NA	Water	300.0	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	300.0	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	300.0	

Analysis Batch: 643558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	300.0	
480-202074-2	MW-8-2-092722	Total/NA	Water	300.0	
480-202074-3	DUPLICATE-1	Total/NA	Water	300.0	
MB 480-643558/4	Method Blank	Total/NA	Water	300.0	
LCS 480-643558/5	Lab Control Sample	Total/NA	Water	300.0	
480-202074-3 MS	DUPLICATE-1	Total/NA	Water	300.0	
480-202074-3 MSD	DUPLICATE-1	Total/NA	Water	300.0	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry

Analysis Batch: 643672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202047-1	MW-9-12-092622	Total/NA	Water	9060A	
480-202047-2	MW-9-101A-092622	Total/NA	Water	9060A	
480-202047-3	MW-10-3-092622	Total/NA	Water	9060A	
MB 480-643672/76	Method Blank	Total/NA	Water	9060A	
LCS 480-643672/77	Lab Control Sample	Total/NA	Water	9060A	
480-202047-3 MS	MW-10-3-092622	Total/NA	Water	9060A	
480-202047-3 MSD	MW-10-3-092622	Total/NA	Water	9060A	

Analysis Batch: 643738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	SM 4500 S2 F	
480-202161-2	MW-6-2-092922	Total/NA	Water	SM 4500 S2 F	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	SM 4500 S2 F	
MB 480-643738/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-643738/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 643771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-1	MW-8-3-092822	Total/NA	Water	300.0	
480-202115-2	MW-8-4-092822	Total/NA	Water	300.0	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	300.0	
MB 480-643771/28	Method Blank	Total/NA	Water	300.0	
LCS 480-643771/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 643966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202161-1	MW-6-1-092922	Total/NA	Water	300.0	
480-202161-2	MW-6-2-092922	Total/NA	Water	300.0	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	300.0	
MB 480-643966/28	Method Blank	Total/NA	Water	300.0	
LCS 480-643966/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 644006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	353.2	
480-202255-2	TK-6-100322	Total/NA	Water	353.2	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	353.2	
480-202255-4	DUPLICATE-2	Total/NA	Water	353.2	
480-202304-1	MW-7-2-100422	Total/NA	Water	353.2	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	353.2	
480-202304-3	MW-7-7-100422	Total/NA	Water	353.2	
MB 480-644006/124	Method Blank	Total/NA	Water	353.2	
MB 480-644006/52	Method Blank	Total/NA	Water	353.2	
LCS 480-644006/125	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-644006/53	Lab Control Sample	Total/NA	Water	353.2	
480-202304-2 MS	MW-7-C-2-100422	Total/NA	Water	353.2	
480-202304-3 DU	MW-7-7-100422	Total/NA	Water	353.2	

Analysis Batch: 644007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	353.2	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 644007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-2	TK-6-100322	Total/NA	Water	353.2	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	353.2	
480-202255-4	DUPLICATE-2	Total/NA	Water	353.2	
480-202304-1	MW-7-2-100422	Total/NA	Water	353.2	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	353.2	
480-202304-3	MW-7-7-100422	Total/NA	Water	353.2	

Analysis Batch: 644008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	353.2	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	353.2	
480-202255-4	DUPLICATE-2	Total/NA	Water	353.2	
480-202304-1	MW-7-2-100422	Total/NA	Water	353.2	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	353.2	
480-202304-3	MW-7-7-100422	Total/NA	Water	353.2	

Analysis Batch: 644009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-2	TK-6-100322	Total/NA	Water	353.2	
MB 480-644009/27	Method Blank	Total/NA	Water	353.2	
MB 480-644009/3	Method Blank	Total/NA	Water	353.2	
LCS 480-644009/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-644009/4	Lab Control Sample	Total/NA	Water	353.2	
480-202255-2 MS	TK-6-100322	Total/NA	Water	353.2	

Analysis Batch: 644250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	350.1	
480-202255-2	TK-6-100322	Total/NA	Water	350.1	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	350.1	
480-202255-4	DUPLICATE-2	Total/NA	Water	350.1	
480-202304-1	MW-7-2-100422	Total/NA	Water	350.1	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	350.1	
480-202304-3	MW-7-7-100422	Total/NA	Water	350.1	
MB 480-644250/27	Method Blank	Total/NA	Water	350.1	
MB 480-644250/3	Method Blank	Total/NA	Water	350.1	
MB 480-644250/51	Method Blank	Total/NA	Water	350.1	
MB 480-644250/75	Method Blank	Total/NA	Water	350.1	
MB 480-644250/99	Method Blank	Total/NA	Water	350.1	
LCS 480-644250/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644250/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644250/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644250/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644250/76	Lab Control Sample	Total/NA	Water	350.1	
480-202255-3 MS	BLDG-10-MW-1-100322	Total/NA	Water	350.1	

Analysis Batch: 644268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	300.0	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	300.0	
480-202255-4	DUPLICATE-2	Total/NA	Water	300.0	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 644268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-644268/4	Method Blank	Total/NA	Water	300.0	
LCS 480-644268/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 644283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	SM 4500 S2 F	
480-202255-2	TK-6-100322	Total/NA	Water	SM 4500 S2 F	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	SM 4500 S2 F	
480-202255-4	DUPLICATE-2	Total/NA	Water	SM 4500 S2 F	
MB 480-644283/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-644283/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 644289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	SM 2320B	
MB 480-644289/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-644289/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 644297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	350.1	
480-202381-2	MW-7-5-100522	Total/NA	Water	350.1	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	350.1	
MB 480-644297/27	Method Blank	Total/NA	Water	350.1	
LCS 480-644297/28	Lab Control Sample	Total/NA	Water	350.1	
480-202381-3 MS	MW-7-A-6-100522	Total/NA	Water	350.1	
480-202381-3 DU	MW-7-A-6-100522	Total/NA	Water	350.1	

Analysis Batch: 644358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	353.2	
480-202381-2	MW-7-5-100522	Total/NA	Water	353.2	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	353.2	

Analysis Batch: 644360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	353.2	
480-202381-2	MW-7-5-100522	Total/NA	Water	353.2	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	353.2	
MB 480-644360/73	Method Blank	Total/NA	Water	353.2	
LCS 480-644360/74	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 644437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-1	MW-7-2-100422	Total/NA	Water	9060A	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	9060A	
480-202304-3	MW-7-7-100422	Total/NA	Water	9060A	
MB 480-644437/76	Method Blank	Total/NA	Water	9060A	
LCS 480-644437/77	Lab Control Sample	Total/NA	Water	9060A	
480-202304-2 MS	MW-7-C-2-100422	Total/NA	Water	9060A	
480-202304-3 DU	MW-7-7-100422	Total/NA	Water	9060A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry

Analysis Batch: 644509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-1	MW-7-2-100422	Total/NA	Water	300.0	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	300.0	
480-202304-3	MW-7-7-100422	Total/NA	Water	300.0	
MB 480-644509/28	Method Blank	Total/NA	Water	300.0	
LCS 480-644509/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 644548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	353.2	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	353.2	
MB 480-644548/28	Method Blank	Total/NA	Water	353.2	
MB 480-644548/4	Method Blank	Total/NA	Water	353.2	
LCS 480-644548/29	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-644548/5	Lab Control Sample	Total/NA	Water	353.2	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	353.2	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	353.2	

Analysis Batch: 644549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	353.2	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	353.2	
480-202483-1	MW-7-8-100722	Total/NA	Water	353.2	

Analysis Batch: 644574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	353.2	
MB 480-644574/4	Method Blank	Total/NA	Water	353.2	
LCS 480-644574/5	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 644613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-2	MW-7-1-092222	Total/NA	Water	SM 2320B	
MB 480-644613/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-644613/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 644835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	350.1	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	350.1	
480-202483-1	MW-7-8-100722	Total/NA	Water	350.1	
MB 480-644835/27	Method Blank	Total/NA	Water	350.1	
MB 480-644835/3	Method Blank	Total/NA	Water	350.1	
MB 480-644835/51	Method Blank	Total/NA	Water	350.1	
MB 480-644835/99	Method Blank	Total/NA	Water	350.1	
LCS 480-644835/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644835/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644835/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-644835/52	Lab Control Sample	Total/NA	Water	350.1	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	350.1	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	350.1	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry

Analysis Batch: 644909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-2	TK-6-100322	Total/NA	Water	300.0	
MB 480-644909/4	Method Blank	Total/NA	Water	300.0	
LCS 480-644909/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 644913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202304-1	MW-7-2-100422	Total/NA	Water	SM 4500 S2 F	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	SM 4500 S2 F	
480-202304-3	MW-7-7-100422	Total/NA	Water	SM 4500 S2 F	
480-202381-1	MW-7-3-100522	Total/NA	Water	SM 4500 S2 F	
480-202381-2	MW-7-5-100522	Total/NA	Water	SM 4500 S2 F	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	SM 4500 S2 F	
MB 480-644913/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-644913/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-644913/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-644913/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 645103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	SM 4500 S2 F	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	SM 4500 S2 F	
MB 480-645103/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-645103/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	SM 4500 S2 F	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 645112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201913-3	MW-7-4-092222	Total/NA	Water	SM 2320B	
480-202047-1	MW-9-12-092622	Total/NA	Water	SM 2320B	
480-202047-2	MW-9-101A-092622	Total/NA	Water	SM 2320B	
480-202047-3	MW-10-3-092622	Total/NA	Water	SM 2320B	
480-202074-1	MW-8-1-092722	Total/NA	Water	SM 2320B	
480-202074-2	MW-8-2-092722	Total/NA	Water	SM 2320B	
480-202074-3	DUPLICATE-1	Total/NA	Water	SM 2320B	
480-202115-1	MW-8-3-092822	Total/NA	Water	SM 2320B	
480-202115-2	MW-8-4-092822	Total/NA	Water	SM 2320B	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	SM 2320B	
480-202161-1	MW-6-1-092922	Total/NA	Water	SM 2320B	
480-202161-2	MW-6-2-092922	Total/NA	Water	SM 2320B	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	SM 2320B	
MB 480-645112/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-645112/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-645112/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-645112/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-202074-3 MS	DUPLICATE-1	Total/NA	Water	SM 2320B	
480-202074-3 MSD	DUPLICATE-1	Total/NA	Water	SM 2320B	

Analysis Batch: 645171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	300.0	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 645171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-2	MW-7-5-100522	Total/NA	Water	300.0	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	300.0	
MB 480-645171/4	Method Blank	Total/NA	Water	300.0	
LCS 480-645171/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 645406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	353.2	
480-202381-2	MW-7-5-100522	Total/NA	Water	353.2	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	353.2	
480-202434-1	MW-7-6-100622	Total/NA	Water	353.2	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	353.2	
480-202483-1	MW-7-8-100722	Total/NA	Water	353.2	
MB 480-645406/27	Method Blank	Total/NA	Water	353.2	
LCS 480-645406/140	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-645406/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-645406/95	Lab Control Sample	Total/NA	Water	353.2	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	353.2	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	353.2	
480-202483-1 MS	MW-7-8-100722	Total/NA	Water	353.2	

Analysis Batch: 645493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	SM 4500 S2 F	
MB 480-645493/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-645493/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 645712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202434-1	MW-7-6-100622	Total/NA	Water	300.0	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	300.0	
MB 480-645712/4	Method Blank	Total/NA	Water	300.0	
LCS 480-645712/5	Lab Control Sample	Total/NA	Water	300.0	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	300.0	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	300.0	

Analysis Batch: 645723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202483-1	MW-7-8-100722	Total/NA	Water	300.0	
MB 480-645723/28	Method Blank	Total/NA	Water	300.0	
LCS 480-645723/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 645783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-1	MW-7-3-100522	Total/NA	Water	9060A	
480-202381-2	MW-7-5-100522	Total/NA	Water	9060A	
480-202381-3	MW-7-A-6-100522	Total/NA	Water	9060A	
480-202434-1	MW-7-6-100622	Total/NA	Water	9060A	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	9060A	
480-202483-1	MW-7-8-100722	Total/NA	Water	9060A	
MB 480-645783/52	Method Blank	Total/NA	Water	9060A	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 645783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-645783/53	Lab Control Sample	Total/NA	Water	9060A	
480-202434-1 MS	MW-7-6-100622	Total/NA	Water	9060A	
480-202434-1 MSD	MW-7-6-100622	Total/NA	Water	9060A	

Analysis Batch: 645802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202255-1	MW-10-2-100322	Total/NA	Water	SM 2320B	
480-202255-2	TK-6-100322	Total/NA	Water	SM 2320B	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	SM 2320B	
480-202255-4	DUPLICATE-2	Total/NA	Water	SM 2320B	
480-202304-1	MW-7-2-100422	Total/NA	Water	SM 2320B	
480-202304-2	MW-7-C-2-100422	Total/NA	Water	SM 2320B	
480-202304-3	MW-7-7-100422	Total/NA	Water	SM 2320B	
480-202381-1	MW-7-3-100522	Total/NA	Water	SM 2320B	
480-202381-2	MW-7-5-100522	Total/NA	Water	SM 2320B	
480-202434-1	MW-7-6-100622	Total/NA	Water	SM 2320B	
480-202434-2	MW-7-P-1-100622	Total/NA	Water	SM 2320B	
480-202483-1	MW-7-8-100722	Total/NA	Water	SM 2320B	
MB 480-645802/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-645802/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-645802/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-645802/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-202255-1 MS	MW-10-2-100322	Total/NA	Water	SM 2320B	
480-202381-1 DU	MW-7-3-100522	Total/NA	Water	SM 2320B	

Analysis Batch: 646002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202381-3	MW-7-A-6-100522	Total/NA	Water	SM 2320B	
MB 480-646002/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-646002/29	Lab Control Sample	Total/NA	Water	SM 2320B	
480-202381-3 MS	MW-7-A-6-100522	Total/NA	Water	SM 2320B	

Analysis Batch: 646366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202074-1	MW-8-1-092722	Total/NA	Water	9060A	
480-202074-2	MW-8-2-092722	Total/NA	Water	9060A	
480-202074-3	DUPLICATE-1	Total/NA	Water	9060A	
480-202115-1	MW-8-3-092822	Total/NA	Water	9060A	
480-202115-2	MW-8-4-092822	Total/NA	Water	9060A	
480-202115-3	MW-8-003-B-092822	Total/NA	Water	9060A	
480-202161-1	MW-6-1-092922	Total/NA	Water	9060A	
480-202161-2	MW-6-2-092922	Total/NA	Water	9060A	
480-202161-3	MW-6-F-8-092922	Total/NA	Water	9060A	
480-202255-1	MW-10-2-100322	Total/NA	Water	9060A	
480-202255-2	TK-6-100322	Total/NA	Water	9060A	
480-202255-3	BLDG-10-MW-1-100322	Total/NA	Water	9060A	
480-202255-4	DUPLICATE-2	Total/NA	Water	9060A	
MB 480-646366/37	Method Blank	Total/NA	Water	9060A	
LCS 480-646366/38	Lab Control Sample	Total/NA	Water	9060A	
480-202115-1 MS	MW-8-3-092822	Total/NA	Water	9060A	
480-202255-1 MS	MW-10-2-100322	Total/NA	Water	9060A	

Eurofins Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 646366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202115-2 DU	MW-8-4-092822	Total/NA	Water	9060A	
480-202255-2 DU	TK-6-100322	Total/NA	Water	9060A	

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-1-092222

Lab Sample ID: 480-201913-2

Date Collected: 09/22/22 12:05

Matrix: Water

Date Received: 09/22/22 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	642778	CR	EET BUF	09/26/22 19:04
Total/NA	Analysis	RSK-175		1	184061	MJZ	EET BUR	09/28/22 16:22
Total/NA	Analysis	RSK-175		1	642681	DSC	EET BUF	09/25/22 19:40
Total/NA	Prep	3005A			642627	VAK	EET BUF	09/26/22 12:41
Total/NA	Analysis	6010C		1	643069	LMH	EET BUF	09/27/22 14:40
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		1	643708	LMH	EET BUF	09/30/22 15:54
Total/NA	Prep	3005A			642627	VAK	EET BUF	09/26/22 12:41
Total/NA	Analysis	6010C		5	643294	LMH	EET BUF	09/28/22 22:53
Total/NA	Analysis	300.0		50	643308	RJS	EET BUF	09/29/22 17:42
Total/NA	Analysis	350.1		1	642790	CLT	EET BUF	09/26/22 11:15
Total/NA	Analysis	353.2		1	642645	CSS	EET BUF	09/23/22 21:14
Total/NA	Analysis	353.2		1	642655	CSS	EET BUF	09/23/22 21:14
Total/NA	Analysis	353.2		1	642656	CSS	EET BUF	09/23/22 21:14
Total/NA	Analysis	9060A		1	643394	KER	EET BUF	09/28/22 15:04
Total/NA	Analysis	SM 2320B		1	644289	STR	EET BUF	10/05/22 18:22
Total/NA	Analysis	SM 2320B		1	644613	DLG	EET BUF	10/07/22 17:58
Total/NA	Analysis	SM 4500 S2 F		1	642668	CC	EET BUF	09/24/22 16:19

Client Sample ID: MW-7-4-092222

Lab Sample ID: 480-201913-3

Date Collected: 09/22/22 16:30

Matrix: Water

Date Received: 09/22/22 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	642778	CR	EET BUF	09/26/22 19:26
Total/NA	Analysis	RSK-175		1	184061	MJZ	EET BUR	09/28/22 16:31
Total/NA	Analysis	RSK-175		1	642681	DSC	EET BUF	09/25/22 18:06
Total/NA	Prep	3005A			642627	VAK	EET BUF	09/26/22 12:41
Total/NA	Analysis	6010C		1	643069	LMH	EET BUF	09/27/22 14:44
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		1	643708	LMH	EET BUF	09/30/22 15:58
Total/NA	Analysis	300.0		10	643308	RJS	EET BUF	09/29/22 17:52
Total/NA	Analysis	350.1		1	642790	CLT	EET BUF	09/26/22 11:17
Total/NA	Analysis	353.2		1	642645	CSS	EET BUF	09/23/22 21:07
Total/NA	Analysis	353.2		1	642655	CSS	EET BUF	09/23/22 21:07
Total/NA	Analysis	353.2		1	642653	CSS	EET BUF	09/24/22 00:16
Total/NA	Analysis	9060A		1	643394	KER	EET BUF	09/28/22 15:33
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 11:42
Total/NA	Analysis	SM 4500 S2 F		1	642668	CC	EET BUF	09/24/22 16:19

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: Trip Blank-092222

Lab Sample ID: 480-201913-4

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/22/22 17:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	642778	CR	EET BUF	09/26/22 19:48

Client Sample ID: MW-9-12-092622

Lab Sample ID: 480-202047-1

Date Collected: 09/26/22 14:05

Matrix: Water

Date Received: 09/26/22 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	642968	CR	EET BUF	09/28/22 02:09
Total/NA	Prep	3510C			643252	MS	EET BUF	09/29/22 09:05
Total/NA	Analysis	8270D		1	643480	JMM	EET BUF	09/30/22 22:00
Total/NA	Analysis	RSK-175		1	184225	MJZ	EET BUR	10/03/22 15:23
Total/NA	Analysis	RSK-175		1	643176	DSC	EET BUF	09/28/22 17:35
Total/NA	Prep	3005A			642995	NVK	EET BUF	09/28/22 09:23
Total/NA	Analysis	6010C		1	643285	LMH	EET BUF	09/29/22 02:44
Total/NA	Analysis	300.0		10	643518	IMZ	EET BUF	10/01/22 02:36
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:34
Total/NA	Analysis	353.2		1	643021	CSS	EET BUF	09/27/22 17:53
Total/NA	Analysis	353.2		1	643028	CSS	EET BUF	09/27/22 17:53
Total/NA	Analysis	353.2		1	643022	CSS	EET BUF	09/27/22 20:21
Total/NA	Analysis	9060A		1	643672	KER	EET BUF	10/02/22 08:09
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 18:46
Total/NA	Analysis	SM 4500 S2 F		1	643117	CC	EET BUF	09/28/22 10:20

Client Sample ID: MW-9-101A-092622

Lab Sample ID: 480-202047-2

Date Collected: 09/26/22 09:15

Matrix: Water

Date Received: 09/26/22 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	642968	CR	EET BUF	09/28/22 02:32
Total/NA	Prep	3510C			643252	MS	EET BUF	09/29/22 09:05
Total/NA	Analysis	8270D		1	643480	JMM	EET BUF	09/30/22 22:28
Total/NA	Analysis	RSK-175		1	184225	MJZ	EET BUR	10/03/22 15:33
Total/NA	Analysis	RSK-175		1	643176	DSC	EET BUF	09/28/22 17:54
Total/NA	Prep	3005A			642995	NVK	EET BUF	09/28/22 09:23
Total/NA	Analysis	6010C		1	643285	LMH	EET BUF	09/29/22 02:48
Total/NA	Prep	3005A			642995	NVK	EET BUF	09/28/22 09:23
Total/NA	Analysis	6010C		5	643507	LMH	EET BUF	09/29/22 17:55
Total/NA	Analysis	300.0		50	643518	IMZ	EET BUF	10/01/22 02:47
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:35
Total/NA	Analysis	353.2		1	643021	CSS	EET BUF	09/27/22 17:54
Total/NA	Analysis	353.2		1	643028	CSS	EET BUF	09/27/22 17:54
Total/NA	Analysis	353.2		1	643022	CSS	EET BUF	09/27/22 20:12
Total/NA	Analysis	9060A		1	643672	KER	EET BUF	10/02/22 08:39

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-9-101A-092622

Lab Sample ID: 480-202047-2

Date Collected: 09/26/22 09:15

Matrix: Water

Date Received: 09/26/22 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 11:50
Total/NA	Analysis	SM 4500 S2 F		1	643117	CC	EET BUF	09/28/22 10:20

Client Sample ID: MW-10-3-092622

Lab Sample ID: 480-202047-3

Date Collected: 09/26/22 11:17

Matrix: Water

Date Received: 09/26/22 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	642968	CR	EET BUF	09/28/22 02:54
Total/NA	Analysis	RSK-175		1	184225	MJZ	EET BUR	10/03/22 15:41
Total/NA	Analysis	RSK-175		1	642965	DSC	EET BUF	09/27/22 16:00
Total/NA	Prep	3005A			642995	NVK	EET BUF	09/28/22 09:23
Total/NA	Analysis	6010C		1	643285	LMH	EET BUF	09/29/22 03:04
Total/NA	Analysis	300.0		5	643518	IMZ	EET BUF	09/30/22 23:01
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:37
Total/NA	Analysis	353.2		1	643021	CSS	EET BUF	09/27/22 17:48
Total/NA	Analysis	353.2		1	643028	CSS	EET BUF	09/27/22 17:48
Total/NA	Analysis	353.2		1	643022	CSS	EET BUF	09/27/22 20:36
Total/NA	Analysis	9060A		1	643672	KER	EET BUF	10/02/22 10:08
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 18:11
Total/NA	Analysis	SM 4500 S2 F		1	643117	CC	EET BUF	09/28/22 10:20

Client Sample ID: MW-8-1-092722

Lab Sample ID: 480-202074-1

Date Collected: 09/27/22 14:29

Matrix: Water

Date Received: 09/27/22 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643152	CR	EET BUF	09/29/22 03:52
Total/NA	Analysis	RSK-175		1	184264	MJZ	EET BUR	10/04/22 11:41
Total/NA	Analysis	RSK-175		11	643176	DSC	EET BUF	09/28/22 16:01
Total/NA	Prep	3005A			643174	NVK	EET BUF	09/29/22 09:07
Total/NA	Analysis	6010C		1	643460	LMH	EET BUF	09/29/22 18:34
Total/NA	Analysis	300.0		20	643558	IMZ	EET BUF	10/01/22 08:00
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:31
Total/NA	Analysis	353.2		1	643214	CSS	EET BUF	09/28/22 18:56
Total/NA	Analysis	353.2		1	643227	CSS	EET BUF	09/28/22 18:56
Total/NA	Analysis	353.2		1	643228	CSS	EET BUF	09/28/22 18:56
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 18:13
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 11:19
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-2-092722

Lab Sample ID: 480-202074-2

Date Collected: 09/27/22 12:58

Matrix: Water

Date Received: 09/27/22 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	643152	CR	EET BUF	09/29/22 04:15
Total/NA	Analysis	RSK-175		1	184264	MJZ	EET BUR	10/04/22 11:50
Total/NA	Analysis	RSK-175		11	643176	DSC	EET BUF	09/28/22 16:20
Total/NA	Prep	3005A			643174	NVK	EET BUF	09/29/22 09:07
Total/NA	Analysis	6010C		1	643460	LMH	EET BUF	09/29/22 18:54
Total/NA	Analysis	300.0		10	643558	IMZ	EET BUF	10/01/22 08:11
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:32
Total/NA	Analysis	353.2		1	643214	CSS	EET BUF	09/28/22 18:53
Total/NA	Analysis	353.2		1	643227	CSS	EET BUF	09/28/22 18:53
Total/NA	Analysis	353.2		1	643228	CSS	EET BUF	09/28/22 18:53
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 18:42
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 17:56
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Client Sample ID: DUPLICATE-1

Lab Sample ID: 480-202074-3

Date Collected: 09/27/22 16:30

Matrix: Water

Date Received: 09/27/22 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	643152	CR	EET BUF	09/29/22 04:37
Total/NA	Analysis	RSK-175		1	184264	MJZ	EET BUR	10/04/22 11:59
Total/NA	Analysis	RSK-175		11	643176	DSC	EET BUF	09/28/22 16:39
Total/NA	Prep	3005A			643174	NVK	EET BUF	09/29/22 09:07
Total/NA	Analysis	6010C		1	643460	LMH	EET BUF	09/29/22 18:58
Total/NA	Analysis	300.0		10	643558	IMZ	EET BUF	10/01/22 08:22
Total/NA	Analysis	350.1		1	643304	CLT	EET BUF	09/29/22 08:33
Total/NA	Analysis	353.2		1	643214	CSS	EET BUF	09/28/22 18:51
Total/NA	Analysis	353.2		1	643227	CSS	EET BUF	09/28/22 18:51
Total/NA	Analysis	353.2		1	643228	CSS	EET BUF	09/28/22 18:51
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 19:10
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 17:49
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202074-4

Date Collected: 09/27/22 00:00

Matrix: Water

Date Received: 09/27/22 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643152	CR	EET BUF	09/29/22 04:59

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-3-092822

Lab Sample ID: 480-202115-1

Date Collected: 09/28/22 13:45

Matrix: Water

Date Received: 09/28/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	643447	CR	EET BUF	09/30/22 21:04
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUR	10/05/22 13:33
Total/NA	Analysis	RSK-175		1	643247	MAN	EET BUF	09/29/22 11:15
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		1	643708	LMH	EET BUF	09/30/22 16:10
Total/NA	Analysis	300.0		20	643771	IMZ	EET BUF	10/04/22 06:55
Total/NA	Analysis	350.1		5	643511	CLT	EET BUF	09/30/22 10:57
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 21:08
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 21:08
Total/NA	Analysis	353.2		1	643425	CSS	EET BUF	09/30/22 00:30
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 16:18
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 11:35
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Client Sample ID: MW-8-4-092822

Lab Sample ID: 480-202115-2

Date Collected: 09/28/22 11:45

Matrix: Water

Date Received: 09/28/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	643447	CR	EET BUF	09/30/22 21:27
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUR	10/05/22 13:42
Total/NA	Analysis	RSK-175		1	643247	MAN	EET BUF	09/29/22 11:34
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		1	643708	LMH	EET BUF	09/30/22 16:42
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		5	643876	BMB	EET BUF	10/03/22 20:53
Total/NA	Analysis	300.0		20	643771	IMZ	EET BUF	10/04/22 07:15
Total/NA	Analysis	350.1		1	643511	CLT	EET BUF	09/30/22 09:12
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 21:05
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 21:05
Total/NA	Analysis	353.2		1	643425	CSS	EET BUF	09/30/22 00:27
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 17:16
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 18:02
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Client Sample ID: MW-8-003-B-092822

Lab Sample ID: 480-202115-3

Date Collected: 09/28/22 09:23

Matrix: Water

Date Received: 09/28/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	644494	CR	EET BUF	10/07/22 18:51
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUR	10/05/22 13:53

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-8-003-B-092822

Lab Sample ID: 480-202115-3

Date Collected: 09/28/22 09:23

Matrix: Water

Date Received: 09/28/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	RSK-175		1	643247	MAN	EET BUF	09/29/22 11:53
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		1	643708	LMH	EET BUF	09/30/22 16:46
Total/NA	Prep	3005A			643358	NZG	EET BUF	09/29/22 16:05
Total/NA	Analysis	6010C		5	643876	BMB	EET BUF	10/03/22 20:57
Total/NA	Analysis	300.0		100	643771	IMZ	EET BUF	10/04/22 07:34
Total/NA	Analysis	350.1		1	643511	CLT	EET BUF	09/30/22 09:18
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 21:11
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 21:11
Total/NA	Analysis	353.2		1	643425	CSS	EET BUF	09/30/22 00:32
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 20:37
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 11:28
Total/NA	Analysis	SM 4500 S2 F		1	643515	CC	EET BUF	09/30/22 10:35

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202115-4

Date Collected: 09/28/22 00:00

Matrix: Water

Date Received: 09/28/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643447	CR	EET BUF	09/30/22 22:12

Client Sample ID: MW-6-1-092922

Lab Sample ID: 480-202161-1

Date Collected: 09/29/22 11:00

Matrix: Water

Date Received: 09/29/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643837	CR	EET BUF	10/04/22 17:03
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUF	10/05/22 14:38
Total/NA	Analysis	RSK-175		1	643493	JLS	EET BUF	09/30/22 12:23
Total/NA	Prep	3005A			643549	NZG	EET BUF	10/03/22 09:39
Total/NA	Analysis	6010C		1	643873	BMB	EET BUF	10/03/22 18:44
Total/NA	Analysis	300.0		20	643966	IMZ	EET BUF	10/05/22 06:49
Total/NA	Analysis	350.1		1	643511	CLT	EET BUF	09/30/22 10:48
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 22:50
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 22:50
Total/NA	Analysis	353.2		1	643425	CSS	EET BUF	09/30/22 01:51
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 21:05
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/11/22 14:52
Total/NA	Analysis	SM 4500 S2 F		1	643738	CC	EET BUF	10/03/22 11:10

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-6-2-092922

Lab Sample ID: 480-202161-2

Date Collected: 09/29/22 09:35

Matrix: Water

Date Received: 09/29/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643837	CR	EET BUF	10/04/22 17:25
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUR	10/05/22 14:47
Total/NA	Analysis	RSK-175		1	643493	JLS	EET BUF	09/30/22 12:45
Total/NA	Prep	3005A			643549	NZG	EET BUF	10/03/22 09:39
Total/NA	Analysis	6010C		1	643873	BMB	EET BUF	10/03/22 18:48
Total/NA	Analysis	300.0		10	643966	IMZ	EET BUF	10/05/22 07:08
Total/NA	Analysis	350.1		1	643511	CLT	EET BUF	09/30/22 10:51
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 22:51
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 22:51
Total/NA	Analysis	353.2		1	643424	CSS	EET BUF	09/29/22 22:51
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 21:34
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 18:18
Total/NA	Analysis	SM 4500 S2 F		1	643738	CC	EET BUF	10/03/22 11:10

Client Sample ID: MW-6-F-8-092922

Lab Sample ID: 480-202161-3

Date Collected: 09/29/22 12:00

Matrix: Water

Date Received: 09/29/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643837	CR	EET BUF	10/04/22 17:48
Total/NA	Analysis	RSK-175		1	184322	RMG	EET BUR	10/05/22 14:57
Total/NA	Analysis	RSK-175		1	643493	JLS	EET BUF	09/30/22 13:03
Total/NA	Prep	3005A			643549	NZG	EET BUF	10/03/22 09:39
Total/NA	Analysis	6010C		1	643873	BMB	EET BUF	10/03/22 18:52
Total/NA	Prep	3005A			643549	NZG	EET BUF	10/03/22 09:39
Total/NA	Analysis	6010C		5	644058	LMH	EET BUF	10/04/22 16:04
Total/NA	Analysis	300.0		20	643966	IMZ	EET BUF	10/05/22 07:28
Total/NA	Analysis	350.1		1	643511	CLT	EET BUF	09/30/22 10:52
Total/NA	Analysis	353.2		1	643419	CSS	EET BUF	09/29/22 22:52
Total/NA	Analysis	353.2		1	643423	CSS	EET BUF	09/29/22 22:52
Total/NA	Analysis	353.2		1	643424	CSS	EET BUF	09/29/22 22:52
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 22:02
Total/NA	Analysis	SM 2320B		1	645112	ARR	EET BUF	10/10/22 18:27
Total/NA	Analysis	SM 4500 S2 F		1	643738	CC	EET BUF	10/03/22 11:10

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202161-4

Date Collected: 09/29/22 00:00

Matrix: Water

Date Received: 09/29/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	643837	CR	EET BUF	10/04/22 18:10

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-10-2-100322

Lab Sample ID: 480-202255-1

Date Collected: 10/03/22 14:20

Matrix: Water

Date Received: 10/03/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	644919	CB	EET BUF	10/12/22 13:17
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 16:10
Total/NA	Analysis	RSK-175		11	643929	DSC	EET BUF	10/04/22 13:55
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		1	644226	LMH	EET BUF	10/05/22 21:22
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		5	644410	LMH	EET BUF	10/07/22 00:36
Total/NA	Analysis	300.0		20	644268	IMZ	EET BUF	10/06/22 13:59
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 08:31
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 20:46
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 20:46
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 20:46
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 22:59
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 17:22
Total/NA	Analysis	SM 4500 S2 F		1	644283	CC	EET BUF	10/06/22 10:44

Client Sample ID: TK-6-100322

Lab Sample ID: 480-202255-2

Date Collected: 10/03/22 15:15

Matrix: Water

Date Received: 10/03/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	644817	CB	EET BUF	10/11/22 16:32
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 16:19
Total/NA	Analysis	RSK-175		1	643929	DSC	EET BUF	10/04/22 22:47
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		1	644226	LMH	EET BUF	10/05/22 21:26
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		5	644410	LMH	EET BUF	10/07/22 00:40
Total/NA	Analysis	300.0		100	644909	IMZ	EET BUF	10/11/22 19:20
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 08:32
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 20:47
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 20:47
Total/NA	Analysis	353.2		1	644009	CSS	EET BUF	10/05/22 00:50
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/18/22 23:56
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:05
Total/NA	Analysis	SM 4500 S2 F		1	644283	CC	EET BUF	10/06/22 10:44

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: BLDG-10-MW-1-100322

Lab Sample ID: 480-202255-3

Date Collected: 10/03/22 16:35

Matrix: Water

Date Received: 10/03/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5000	644919	CB	EET BUF	10/12/22 13:39
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 17:05
Total/NA	Analysis	RSK-175		1	643929	DSC	EET BUF	10/04/22 23:06
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		1	644226	LMH	EET BUF	10/05/22 21:30
Total/NA	Analysis	300.0		10	644268	IMZ	EET BUF	10/06/22 14:20
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 08:38
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 20:48
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 20:48
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 20:48
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/19/22 00:25
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 18:50
Total/NA	Analysis	SM 4500 S2 F		1	644283	CC	EET BUF	10/06/22 10:44

Client Sample ID: DUPLICATE-2

Lab Sample ID: 480-202255-4

Date Collected: 10/03/22 12:05

Matrix: Water

Date Received: 10/03/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5000	644919	CB	EET BUF	10/12/22 14:02
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 17:14
Total/NA	Analysis	RSK-175		1	643929	DSC	EET BUF	10/04/22 23:25
Total/NA	Prep	3005A			643956	VAK	EET BUF	10/05/22 08:56
Total/NA	Analysis	6010C		1	644226	LMH	EET BUF	10/05/22 21:34
Total/NA	Analysis	300.0		10	644268	IMZ	EET BUF	10/06/22 15:25
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 08:40
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 20:50
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 20:50
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 20:50
Total/NA	Analysis	9060A		1	646366	KER	EET BUF	10/19/22 00:53
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 18:58
Total/NA	Analysis	SM 4500 S2 F		1	644283	CC	EET BUF	10/06/22 10:44

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202255-5

Date Collected: 10/03/22 00:00

Matrix: Water

Date Received: 10/03/22 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	644817	CB	EET BUF	10/11/22 17:39

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-2-100422

Lab Sample ID: 480-202304-1

Date Collected: 10/04/22 12:30

Matrix: Water

Date Received: 10/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	644919	CB	EET BUF	10/12/22 14:24
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 17:23
Total/NA	Analysis	RSK-175		1	643929	DSC	EET BUF	10/04/22 23:44
Total/NA	Prep	3005A			644116	NZG	EET BUF	10/05/22 15:59
Total/NA	Analysis	6010C		1	644402	BMB	EET BUF	10/07/22 04:16
Total/NA	Analysis	300.0		5	644509	IMZ	EET BUF	10/08/22 02:55
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 09:12
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 22:25
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 22:25
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 22:25
Total/NA	Analysis	9060A		1	644437	KER	EET BUF	10/07/22 06:07
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:14
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Client Sample ID: MW-7-C-2-100422

Lab Sample ID: 480-202304-2

Date Collected: 10/04/22 10:00

Matrix: Water

Date Received: 10/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	644919	CB	EET BUF	10/12/22 14:46
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 17:32
Total/NA	Analysis	RSK-175		1	643929	DSC	EET BUF	10/05/22 00:02
Total/NA	Prep	3005A			644116	NZG	EET BUF	10/05/22 15:59
Total/NA	Analysis	6010C		1	644402	BMB	EET BUF	10/07/22 04:20
Total/NA	Analysis	300.0		10	644509	IMZ	EET BUF	10/08/22 04:52
Total/NA	Analysis	350.1		1	644250	CLT	EET BUF	10/06/22 09:15
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 22:19
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 22:19
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 22:19
Total/NA	Analysis	9060A		1	644437	KER	EET BUF	10/07/22 07:05
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:23
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Client Sample ID: MW-7-7-100422

Lab Sample ID: 480-202304-3

Date Collected: 10/04/22 13:20

Matrix: Water

Date Received: 10/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1000	644919	CB	EET BUF	10/12/22 15:09
Total/NA	Analysis	RSK-175		1	184419	RMG	EET BUR	10/07/22 17:41
Total/NA	Analysis	RSK-175		44	643929	DSC	EET BUF	10/05/22 00:21

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-7-100422

Lab Sample ID: 480-202304-3

Date Collected: 10/04/22 13:20

Matrix: Water

Date Received: 10/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			644116	NZG	EET BUF	10/05/22 15:59
Total/NA	Analysis	6010C		5	644840	LMH	EET BUF	10/10/22 17:58
Total/NA	Prep	3005A			644116	NZG	EET BUF	10/05/22 15:59
Total/NA	Analysis	6010C		1	644402	BMB	EET BUF	10/07/22 04:24
Total/NA	Analysis	300.0		100	644509	IMZ	EET BUF	10/08/22 05:12
Total/NA	Analysis	350.1		2	644250	CLT	EET BUF	10/06/22 10:18
Total/NA	Analysis	353.2		1	644006	CSS	EET BUF	10/04/22 22:22
Total/NA	Analysis	353.2		1	644007	CSS	EET BUF	10/04/22 22:22
Total/NA	Analysis	353.2		1	644008	CSS	EET BUF	10/04/22 22:22
Total/NA	Analysis	9060A		1	644437	KER	EET BUF	10/07/22 08:05
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 20:19
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Client Sample ID: Trip Blank-100422

Lab Sample ID: 480-202304-4

Date Collected: 10/04/22 00:00

Matrix: Water

Date Received: 10/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	644817	CB	EET BUF	10/11/22 19:31

Client Sample ID: MW-7-3-100522

Lab Sample ID: 480-202381-1

Date Collected: 10/05/22 16:15

Matrix: Water

Date Received: 10/05/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	645608	ATG	EET BUF	10/15/22 12:57
Total/NA	Analysis	RSK-175		1	184469	RMG	EET BUR	10/10/22 14:22
Total/NA	Analysis	RSK-175		22	644300	DSC	EET BUF	10/06/22 14:41
Total/NA	Prep	3005A			644327	NZG	EET BUF	10/06/22 16:23
Total/NA	Analysis	6010C		1	644676	BMB	EET BUF	10/07/22 19:03
Total/NA	Prep	3005A			644327	NZG	EET BUF	10/06/22 16:23
Total/NA	Analysis	6010C		10	644848	LMH	EET BUF	10/10/22 17:46
Total/NA	Analysis	300.0		100	645171	IMZ	EET BUF	10/12/22 20:56
Total/NA	Analysis	350.1		1	644297	CLT	EET BUF	10/06/22 12:44
Total/NA	Analysis	353.2		1	644360	CSS	EET BUF	10/07/22 00:34
Total/NA	Analysis	353.2		1	644358	CSS	EET BUF	10/07/22 01:40
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/13/22 23:54
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/14/22 21:07
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 20:29
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: MW-7-5-100522

Lab Sample ID: 480-202381-2

Date Collected: 10/05/22 14:40

Matrix: Water

Date Received: 10/05/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	645608	ATG	EET BUF	10/15/22 13:21
Total/NA	Analysis	8260C	DL	200	645911	ATG	EET BUF	10/18/22 02:03
Total/NA	Analysis	RSK-175		1	184469	RMG	EET BUR	10/10/22 14:31
Total/NA	Analysis	RSK-175		1	644300	DSC	EET BUF	10/06/22 20:34
Total/NA	Prep	3005A			644327	NZG	EET BUF	10/06/22 16:23
Total/NA	Analysis	6010C		1	644676	BMB	EET BUF	10/07/22 19:07
Total/NA	Prep	3005A			644327	NZG	EET BUF	10/06/22 16:23
Total/NA	Analysis	6010C		5	644848	LMH	EET BUF	10/10/22 17:50
Total/NA	Analysis	300.0		100	645171	IMZ	EET BUF	10/12/22 21:07
Total/NA	Analysis	350.1		1	644297	CLT	EET BUF	10/06/22 12:45
Total/NA	Analysis	353.2		1	644360	CSS	EET BUF	10/07/22 00:36
Total/NA	Analysis	353.2		1	644358	CSS	EET BUF	10/07/22 01:40
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/13/22 23:56
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/14/22 21:36
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 21:02
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Client Sample ID: MW-7-A-6-100522

Lab Sample ID: 480-202381-3

Date Collected: 10/05/22 12:50

Matrix: Water

Date Received: 10/05/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2000	645608	ATG	EET BUF	10/15/22 13:44
Total/NA	Analysis	RSK-175		1	184469	RMG	EET BUR	10/10/22 14:41
Total/NA	Analysis	RSK-175	DL	2	184596	MJZ	EET BUR	10/12/22 12:32
Total/NA	Analysis	RSK-175		22	644300	DSC	EET BUF	10/06/22 15:19
Total/NA	Analysis	RSK-175	DL	110	644300	DSC	EET BUF	10/06/22 20:53
Total/NA	Prep	3005A			644327	NZG	EET BUF	10/06/22 16:23
Total/NA	Analysis	6010C		1	644676	BMB	EET BUF	10/07/22 19:22
Total/NA	Analysis	300.0		20	645171	IMZ	EET BUF	10/12/22 21:18
Total/NA	Analysis	350.1		1	644297	CLT	EET BUF	10/06/22 12:47
Total/NA	Analysis	353.2		1	644360	CSS	EET BUF	10/07/22 00:37
Total/NA	Analysis	353.2		1	644358	CSS	EET BUF	10/07/22 01:40
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/13/22 23:57
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/14/22 22:05
Total/NA	Analysis	SM 2320B		1	646002	ARR	EET BUF	10/17/22 21:06
Total/NA	Analysis	SM 4500 S2 F		1	644913	CC	EET BUF	10/11/22 12:00

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: TripBlank-100522

Lab Sample ID: 480-202381-4

Date Collected: 10/05/22 00:00

Matrix: Water

Date Received: 10/05/22 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	645608	ATG	EET BUF	10/15/22 14:07

Client Sample ID: MW-7-6-100622

Lab Sample ID: 480-202434-1

Date Collected: 10/06/22 10:00

Matrix: Water

Date Received: 10/06/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	645608	ATG	EET BUF	10/15/22 14:31
Total/NA	Analysis	RSK-175		1	184469	RMG	EET BUR	10/10/22 14:50
Total/NA	Analysis	RSK-175		11	644615	MAN	EET BUF	10/09/22 17:25
Total/NA	Prep	3005A			644708	VAK	EET BUF	10/11/22 09:02
Total/NA	Analysis	6010C		10	645551	LMH	EET BUF	10/14/22 12:23
Total/NA	Prep	3005A			644708	VAK	EET BUF	10/11/22 09:02
Total/NA	Analysis	6010C		1	645252	BMB	EET BUF	10/12/22 17:44
Total/NA	Analysis	300.0		100	645712	IMZ	EET BUF	10/16/22 18:06
Total/NA	Analysis	350.1		1	644835	CLT	EET BUF	10/11/22 07:20
Total/NA	Analysis	353.2		1	644548	CSS	EET BUF	10/07/22 17:26
Total/NA	Analysis	353.2		1	644549	CSS	EET BUF	10/07/22 17:26
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/13/22 22:48
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/14/22 23:32
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:45
Total/NA	Analysis	SM 4500 S2 F		1	645103	CC	EET BUF	10/12/22 11:06

Client Sample ID: MW-7-P-1-100622

Lab Sample ID: 480-202434-2

Date Collected: 10/06/22 12:15

Matrix: Water

Date Received: 10/06/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	645608	ATG	EET BUF	10/15/22 14:54
Total/NA	Analysis	RSK-175		1	184469	RMG	EET BUR	10/10/22 15:17
Total/NA	Analysis	RSK-175		11	644615	MAN	EET BUF	10/09/22 18:46
Total/NA	Analysis	RSK-175	DL	88	644615	MAN	EET BUF	10/10/22 06:03
Total/NA	Prep	3005A			644708	VAK	EET BUF	10/11/22 09:02
Total/NA	Analysis	6010C		1	645252	BMB	EET BUF	10/12/22 18:15
Total/NA	Analysis	300.0		50	645712	IMZ	EET BUF	10/16/22 19:21
Total/NA	Analysis	350.1		100	644835	CLT	EET BUF	10/11/22 09:21
Total/NA	Analysis	353.2		1	644548	CSS	EET BUF	10/07/22 17:30
Total/NA	Analysis	353.2		1	644549	CSS	EET BUF	10/07/22 17:30
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/13/22 22:53
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/15/22 00:02
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:37
Total/NA	Analysis	SM 4500 S2 F		1	645103	CC	EET BUF	10/12/22 11:06

Eurofins Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202434-3

Date Collected: 10/06/22 00:00

Matrix: Water

Date Received: 10/06/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	645608	ATG	EET BUF	10/15/22 15:18

Client Sample ID: MW-7-8-100722

Lab Sample ID: 480-202483-1

Date Collected: 10/07/22 09:15

Matrix: Water

Date Received: 10/07/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	645313	AXK	EET BUF	10/14/22 07:10
Total/NA	Analysis	RSK-175		1	184657	RMG	EET BUR	10/13/22 12:43
Total/NA	Analysis	RSK-175		1	644615	MAN	EET BUF	10/10/22 08:15
Total/NA	Prep	3005A			644760	VAK	EET BUF	10/11/22 14:49
Total/NA	Analysis	6010C		1	646704	LMH	EET BUF	10/22/22 11:41
Total/NA	Prep	3005A			644760	VAK	EET BUF	10/11/22 14:49
Total/NA	Analysis	6010C		5	646704	LMH	EET BUF	10/22/22 13:51
Total/NA	Analysis	300.0		100	645723	IMZ	EET BUF	10/17/22 06:50
Total/NA	Analysis	350.1		1	644835	CLT	EET BUF	10/11/22 08:34
Total/NA	Analysis	353.2		1	644549	CSS	EET BUF	10/07/22 18:46
Total/NA	Analysis	353.2		1	644574	CC	EET BUF	10/08/22 15:11
Total/NA	Analysis	353.2		1	645406	CSS	EET BUF	10/14/22 00:38
Total/NA	Analysis	9060A		1	645783	KER	EET BUF	10/14/22 19:40
Total/NA	Analysis	SM 2320B		1	645802	ARR	EET BUF	10/15/22 19:29
Total/NA	Analysis	SM 4500 S2 F		1	645493	CC	EET BUF	10/14/22 10:21

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202483-2

Date Collected: 10/07/22 00:00

Matrix: Water

Date Received: 10/07/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	645313	AXK	EET BUF	10/14/22 07:32

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-23
Florida	NELAP	E87467	06-30-23
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-23
New York	NELAP	10391	04-01-23
Pennsylvania	NELAP	68-00489	04-30-23
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-23

Method Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
RSK-175	Dissolved Gases (GC)	RSK	EET BUR
6010C	Metals (ICP)	SW846	EET BUF
300.0	Anions, Ion Chromatography	MCAWW	EET BUF
350.1	Nitrogen, Ammonia	MCAWW	EET BUF
353.2	Nitrate	EPA	EET BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	EET BUF
353.2	Nitrogen, Nitrite	MCAWW	EET BUF
9060A	Organic Carbon, Total (TOC)	SW846	EET BUF
SM 2320B	Alkalinity	SM	EET BUF
SM 4500 S2 F	Sulfide, Total	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256043

Job ID: 480-201913-1
SDG: BCP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-201913-2	MW-7-1-092222	Water	09/22/22 12:05	09/22/22 17:42
480-201913-3	MW-7-4-092222	Water	09/22/22 16:30	09/22/22 17:42
480-201913-4	Trip Blank-092222	Water	09/22/22 00:00	09/22/22 17:42
480-202047-1	MW-9-12-092622	Water	09/26/22 14:05	09/26/22 15:20
480-202047-2	MW-9-101A-092622	Water	09/26/22 09:15	09/26/22 15:20
480-202047-3	MW-10-3-092622	Water	09/26/22 11:17	09/26/22 15:20
480-202074-1	MW-8-1-092722	Water	09/27/22 14:29	09/27/22 17:10
480-202074-2	MW-8-2-092722	Water	09/27/22 12:58	09/27/22 17:10
480-202074-3	DUPLICATE-1	Water	09/27/22 16:30	09/27/22 17:10
480-202074-4	TRIP BLANK	Water	09/27/22 00:00	09/27/22 17:10
480-202115-1	MW-8-3-092822	Water	09/28/22 13:45	09/28/22 15:40
480-202115-2	MW-8-4-092822	Water	09/28/22 11:45	09/28/22 15:40
480-202115-3	MW-8-003-B-092822	Water	09/28/22 09:23	09/28/22 15:40
480-202115-4	TRIP BLANK	Water	09/28/22 00:00	09/28/22 15:40
480-202161-1	MW-6-1-092922	Water	09/29/22 11:00	09/29/22 14:45
480-202161-2	MW-6-2-092922	Water	09/29/22 09:35	09/29/22 14:45
480-202161-3	MW-6-F-8-092922	Water	09/29/22 12:00	09/29/22 14:45
480-202161-4	TRIP BLANK	Water	09/29/22 00:00	09/29/22 14:45
480-202255-1	MW-10-2-100322	Water	10/03/22 14:20	10/03/22 18:00
480-202255-2	TK-6-100322	Water	10/03/22 15:15	10/03/22 18:00
480-202255-3	BLDG-10-MW-1-100322	Water	10/03/22 16:35	10/03/22 18:00
480-202255-4	DUPLICATE-2	Water	10/03/22 12:05	10/03/22 18:00
480-202255-5	TRIP BLANK	Water	10/03/22 00:00	10/03/22 18:00
480-202304-1	MW-7-2-100422	Water	10/04/22 12:30	10/04/22 14:00
480-202304-2	MW-7-C-2-100422	Water	10/04/22 10:00	10/04/22 14:00
480-202304-3	MW-7-7-100422	Water	10/04/22 13:20	10/04/22 14:00
480-202304-4	Trip Blank-100422	Water	10/04/22 00:00	10/04/22 14:00
480-202381-1	MW-7-3-100522	Water	10/05/22 16:15	10/05/22 17:05
480-202381-2	MW-7-5-100522	Water	10/05/22 14:40	10/05/22 17:05
480-202381-3	MW-7-A-6-100522	Water	10/05/22 12:50	10/05/22 17:05
480-202381-4	TripBlank-100522	Water	10/05/22 00:00	10/05/22 17:05
480-202434-1	MW-7-6-100622	Water	10/06/22 10:00	10/06/22 15:55
480-202434-2	MW-7-P-1-100622	Water	10/06/22 12:15	10/06/22 15:55
480-202434-3	TRIP BLANK	Water	10/06/22 00:00	10/06/22 15:55
480-202483-1	MW-7-8-100722	Water	10/07/22 09:15	10/07/22 10:00
480-202483-2	TRIP BLANK	Water	10/07/22 00:00	10/07/22 10:00

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12/1/2022 (Rev. 1)

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Environment Testing
America

Client Information		Sampler: <u>Morgan Brown</u>		Lab PM: Heckler, Denise D		Carrier Tracking No(s):		COC No: 480-177412-32642.13																															
Client Contact: Mr. Thomas Bohlen		Phone: <u>716-803-5717</u>		E-Mail: Denise.Heckler@et.eurofinsus.com		State of Origin:		Page: Page 13 of 14																															
Company: GZA GeoEnvironmental, Inc.		PWSID:		Analysis Requested																																			
Address: 300 Pearl St. Suite 700		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>8260C - PCE, TCE, DCE (trans and cis) & VC</td> <td>VFA_IC - VFAs</td> <td>8270D - PAH Semivolatiles</td> <td>RSK_175_CO2 - Carbon dioxide</td> <td>300.0_28D - Anions (Chloride & Sulfate)</td> <td>350.1 - Ammonia</td> <td>6010C - Metals - Fe, Mn, Mg, K & Na</td> <td>RSK_175 - Methane, Ethane & Ethene</td> <td>9060A - TOC</td> <td>SM4500_S2_F - Sulfide</td> <td>353.2, 353.2_Nitrite, Nitrate_Calc</td> <td>2320B - Alkalinity</td> <td>Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PCE, TCE, DCE (trans and cis) & VC	VFA_IC - VFAs	8270D - PAH Semivolatiles	RSK_175_CO2 - Carbon dioxide	300.0_28D - Anions (Chloride & Sulfate)	350.1 - Ammonia	6010C - Metals - Fe, Mn, Mg, K & Na	RSK_175 - Methane, Ethane & Ethene	9060A - TOC	SM4500_S2_F - Sulfide	353.2, 353.2_Nitrite, Nitrate_Calc	2320B - Alkalinity	Total Number of containers															
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PCE, TCE, DCE (trans and cis) & VC	VFA_IC - VFAs							8270D - PAH Semivolatiles	RSK_175_CO2 - Carbon dioxide	300.0_28D - Anions (Chloride & Sulfate)	350.1 - Ammonia	6010C - Metals - Fe, Mn, Mg, K & Na	RSK_175 - Methane, Ethane & Ethene	9060A - TOC	SM4500_S2_F - Sulfide	353.2, 353.2_Nitrite, Nitrate_Calc	2320B - Alkalinity	Total Number of containers																			
City: Buffalo		TAT Requested (days):																																					
State, Zip: NY, 14202		Compliance Project: ☐ Yes ☐ No																																					
Phone:		PO #: Purchase Order Requested																																					
Email: thomas.bohlen@gza.com		WO #: 256043		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)																																			
Project Name: 058507, GM Lockport SSOW 256043		Project #: 48004014																																					
Site: <u>BCP site Wells</u>		SSOW#:																																					
Sample Identification		Sample Date																																					
Sample Time		Sample Type (C=comp, G=grab)																																					
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:																																			
MW-9-12-092622		4-26-22 1405 G Water																																					
MW-9-101-A-092622		" 0915 G Water																																					
MW-10-3-092622		" 1117 G Water																																					
Water		Water																																					
Water		Water		 480-202047 Chain of Custody																																			
Water		Water																																					
Water		Water																																					
Water		Water																																					
Water		Water																																					
Water		Water		Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)																																			
Water		Water																																					
Water		Water																																					
Water		Water																																					
Water		Water																																					
Water		Water		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:																																			
Water		Water																																					
Water		Water																																					
Water		Water																																					
Water		Water																																					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																	
Relinquished by: <u>Morgan Brown</u>		Date/Time: <u>9-26-22 1515</u>		Company: <u>ETA</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9/26/22 1520</u>																															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																															
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																															
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.4 2.3 ICE</u>																																			

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Client Information				Sampler: Morgan Brown <i>(716) 803-5717</i>	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-177412-32642.5														
Client Contact Mr. Thomas Bohlen				Phone:	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin:	Page: Page 5 of 14														
Company: GZA GeoEnvironmental, Inc.				PWSID:	Analysis Requested			Job # <i>21.0056546.20</i>													
Address: 300 Pearl St. Suite 700				Due Date Requested:				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascobic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)													
City: Buffalo				TAT Requested (days):																	
State, Zip: NY, 14202				Compliance Project: Δ Yes Δ No																	
Phone:				PO #: Purchase Order Requested																	
Email: thomas.bohlen@gza.com				WO #: 256043				Other:													
Project Name: 058507, GM Lockport SSOW 256043				Project #: 48004014																	
Site: <i>BCP Site Wells</i>				SSOW#:																	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab) BT=Tissue, A=Air	Matrix (W=water, S=solid, O=waste/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PCB, TCe, DCE (trans and cis) & VC	VFA_IC - VFAs	8270D - PAH Semivolatiles	RSK_175_CO2 - Carbon dioxide	300.0_28D - Anions (Chloride & Sulfate)	350.1 - Ammonia	6010C - Metals - Fe, Mn, Mg, K & Na	RSK_175 - Methane, Ethane & Ethene	9060A - TOC	SM4500_S2_F - Sulfide	353.2_353.2_Nitrite, Nitrate_Calc	2320B - Alkalinity	Total Number of containers	Special Instructions/Note:
								A	N	N	N	N	S	D	A	A	CB	N	N		
<i>MW-7-6-100622</i>		<i>10-6-22</i>	<i>1000</i>	<i>G</i>	Water	X	X				X	X	X	X	X	X	X	X	X		
<i>MW-7-P-1-100622</i>		<i>"</i>	<i>1215</i>	<i>G</i>	Water		X				X	X	X	X	X	X	X	X	X		
<i>Trip blank</i>		<i>-</i>	<i>-</i>	<i>-</i>	Water																
					Water																
					Water																
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					Water																
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					Water																
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																	
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:																	
Empty Kit Relinquished by:				Date:	Time:				Method of Shipment:												
Relinquished by: <i>Morgan Brown</i>				Date/Time: <i>10-6-22 1555</i>	Company: <i>GZA</i>	Received by: <i>[Signature]</i>				Date/Time: <i>10/6/22 1555</i>				Company: <i>TA</i>							
Relinquished by:				Date/Time:	Company:	Received by:				Date/Time:				Company:							
Relinquished by:				Date/Time:	Company:	Received by:				Date/Time:				Company:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>11.3 #1 ICE</i>																	

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480-201913 Chain of Custody

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Ver: 06/08/2021



Environment Testing
TestAmerica

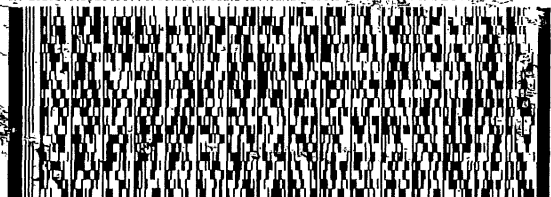
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SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 23SEP22
ACTWGT: 49.75 LB
CAD: 846654/CAFE3616

BILL SENDER

TO SAMPLE MGT.
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1028
REF: TA BURLINGTON



FedEx
Express



2 of 2

MPS# 5754 0127 0674

Mstr# 5754 0127 0663

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



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Ver: 06/08/2021

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

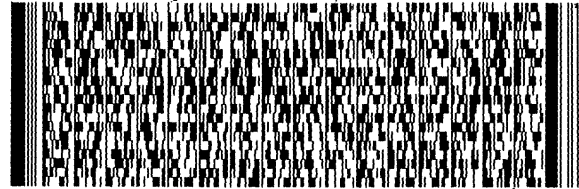
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ACTWGT: 38.80 LB
CAD: 846654/CAFE3616
DIMS: 26x15x14 IN

AMHERST, NY 14228
UNITED STATES US

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



FedEx
Express



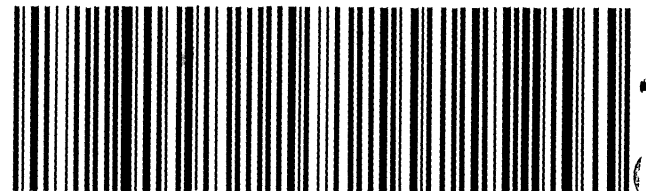
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WED - 28 SEP 10:30/
PRIORITY OVERNIGHT

NL BTVA

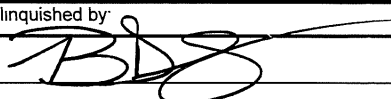
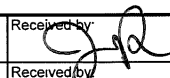
0540

VT-US BT



10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

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America

Client Information (Sub Contract Lab)		Sampler		Lab PM Heckler, Denise D		480-202255 Chain of Custody		68.1			
Client Contact: Shipping/Receiving		Phone.		E-Mail Denise.Heckler@et.eurofinsus.com		New York		Page 1 of 1			
Company TestAmerica Laboratories, Inc.				Accreditations Required (See note) NELAP - New York				Job #: 480-201913-1			
Address 530 Community Drive, Suite 11, City: South Burlington State, Zip VT, 05403		Due Date Requested: 10/17/2022		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)			
Phone 802-660-1990(Tel) 802-660-1919(Fax)		TAT Requested (days):									
Email		PO #		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Project Name 058507, GM Lockport SSOW 256043		WO #		Project # 48004014		RSK_175_CO2 Carbon dioxide		Other:			
Site		SSOW#									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)					Special Instructions/Note:	
				Preservation Code							
MW-10-2-100322 (480-202255-1)		10/3/22	14:20 Eastern		Water		X			3	
TK-6-100322 (480-202255-2)		10/3/22	15:15 Eastern		Water		X			3	
BLDG-10-MW-1-100322 (480-202255-3)		10/3/22	16:35 Eastern		Water		X			3	
DUPLICATE-2 (480-202255-4)		10/3/22	12:05 Eastern		Water		X			3	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements.					
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by: 			Date/Time: 10-4-22 1800		Company: TAB		Received by: 		Date/Time: 10/3/2022 1030		Company: ETABur
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact:			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No											

Ver: 06/08/2021

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Environment Testing
TestAmerica

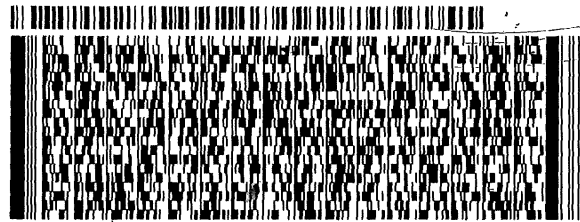
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SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

SHIP DATE: 04OCT22
ACTWGT: 40.65 LB
CAD: 846654/CAFE3616
DIMS: 26x15x14 IN

AMHERST, NY 14228
UNITED STATES US

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON



1 of 2

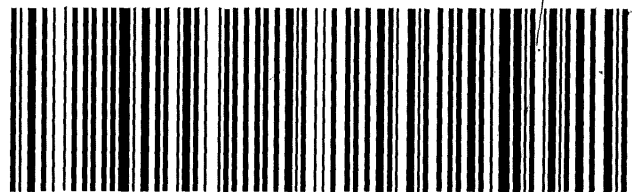
TRK# 5754 0127 7750
0201

MASTER

NL BTVA

WED - 05 OCT 10:30
PRIORITY OVERNIGHT

0540
VT-US BT



eurofins | Environment Testing
America

[illegible]



Environment Testing
TestAmerica

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

SHIP DATE: 05OCT22
ACTWGT: 16.60 LB
CAD: 846654/CAFE3616
DIMS: 19x15x10 IN

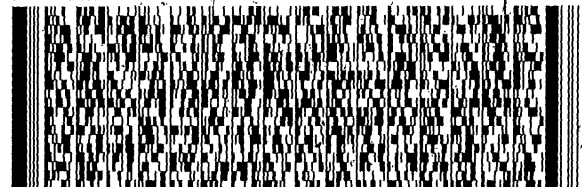
AMHERST, NY 14228
UNITED STATES US

BILL SENDER

TO: **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1028

REF: TA BURLINGTON



FedEx
Express



TRK# 5754 0127 8653
0201

THU - 06 OCT 10:3
PRIORITY OVERNIG

NL BTVA

054

VT-US B



[illegible]

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

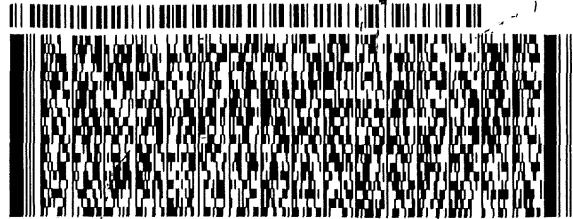
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CAD: 846654/CAFE3616
DIMS: 26x15x14 IN

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA BURLINGTON



FedEx
Express



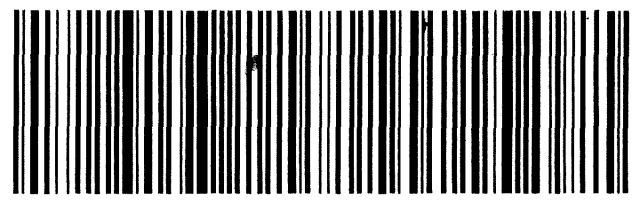
J222022032801 UV

TRK# 5754 0127 9156
0201

FRI - 07 OCT 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV



577C1/ACSF/432R

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Environment Testing
America

Ver: 06/08/2021

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

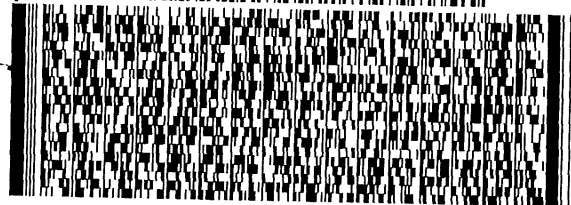
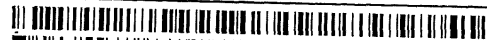
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ACTWGT: 50.50 LB
CAD: 846654/CAFE3616
DIMS: 26x15x14 IN

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA BURLINGTON



FedEx
Express



2 of 3

MPS# 5754 0128 2299
0263

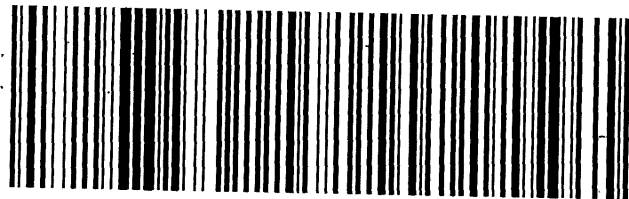
Mstr# 5754 0128 2288

0201

NL BTVA

05403

VT-US BTV



ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

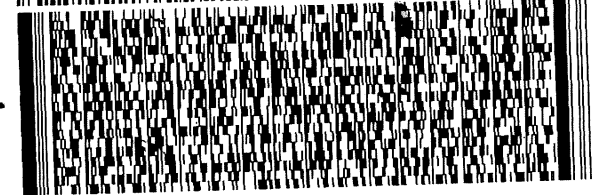
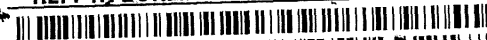
SHIP DATE: 11OCT22
ACTWGT: 40.75 LB
CAD: 846654/CAFE3616
DIMS: 26x15x14 IN

BILL SENDER

TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA BURLINGTON



FedEx
Express



1 of 3

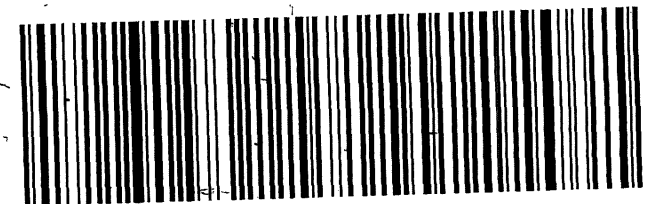
TRK# 5754 0128 2288
0201

MASTER

NL BTVA

05403

VT-US BTV



Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 201913

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 201913

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

List Creation: 09/24/22 12:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202047

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202047

List Number: 2

Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

List Creation: 09/28/22 12:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963605
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202074

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202074

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 09/29/22 01:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963608
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202115

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202115

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins Burlington

List Creation: 09/30/22 03:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963624
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202161

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202161

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/01/22 02:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963626
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202255

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8 6.4 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202255

List Number: 2

Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

List Creation: 10/05/22 05:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963633
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202304

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202304

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/06/22 04:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963845
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202381

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202381

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/07/22 05:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963671
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202434

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	11.3 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202434

List Number: 2

Creator: Cunningham, Caroline R

List Source: Eurofins Burlington

List Creation: 10/08/22 11:16 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963680
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202483

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-201913-1

SDG Number: BCP

Login Number: 202483

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/12/22 04:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1963695, 1963696
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C, 0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



GZA GeoEnvironmental, Inc.