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JUNE/JULY 2020 GROUNDWATER SAMPLING REPORT BCP SITE #C932138 GM COMPONENTS HOLDINGS, LLC 200 Upper Mountain Road Lockport, New York

May 4, 2021

File No. 21.0056546.20



PREPARED FOR:

New York State Department of Environmental
Conservation

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VIA EMAIL

May 4, 2021
File No: 21.0056546.20

Mr. Glenn May, CPG
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Ave.
Buffalo, NY 14203-2915

RE: June/July 2020 Groundwater Sampling Report
BCP Site # C932138
GM Components Holdings, LLC
200 Upper Mountain Road
Lockport, NY 14094

Dear Glenn:

GZA GeoEnvironmental of New York (GZA) is pleased to provide the attached June/July 2020 Groundwater Sampling Report for BCP Site # C932138.

We hope this report satisfies your present needs. If you need any additional site-specific information, please contact Jim Richert at 716-844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

James J. Richert, P.G.
Senior Project Manager

Karen Kinsella, Ph.D.
Sr. Technical Specialist/Consultant Reviewer

Bart A. Klettke, P.E.
Principal



TABLE OF CONTENTS

Page

1.00 INTRODUCTION AND BACKGROUND	1
2.00 GROUNDWATER MONITORING AND SAMPLING	1
3.00 ANALYTICAL RESULTS AND DISCUSSION	3
4.00 GROUNDWATER MONITORING CONCLUSIONS AND RECOMMENDATIONS	6

TABLES

TABLE 1	SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
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FIGURES

FIGURE 1	SITE PLAN
FIGURE 2	JUNE 2020 GROUNDWATER CONTOUR MAP
FIGURE 3	EXTENT OF GROUNDWATER CONTAMINATION

APPENDICES

APPENDIX A	MONITORING WELL OBSERVATIONS AND GROUNDWATER SAMPLING LOGS
APPENDIX B	PREVIOUS ANALYTICAL RESULTS AND GRAPHS
APPENDIX C	DATA QUALITY ASSESSMENT AND VERIFICATION REPORT
APPENDIX D	ANAEROBIC BIODEGRADATION SCREENING TABLES
APPENDIX E	TABLE E-1 WELL CONDITION SURVEY
APPENDIX F	TESTAMERICA ANALYTICAL LABORATORY REPORTS



1.0 INTRODUCTION AND BACKGROUND

On behalf of GM Components Holdings LLC (GMCH), GZA GeoEnvironmental of New York (GZA) has prepared this report to summarize the results of the June/July 2020 groundwater sampling event conducted at Brownfield Cleanup Program (BCP) Site No. C932138 at the GMCH facility located at 200 Upper Mountain Road in Lockport, New York. The groundwater sampling event was conducted from June 24, 2020 through July 13, 2020 and included 25 monitoring wells (see **Figure 1**). Eleven wells are in proximity of 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 in proximity of 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 in proximity of Building 10 (BLDG 10 MW-1, 10-2, 10-3, 9-101-A, 9-12, and TK-6). Groundwater elevation data were also collected during the sampling event. **Figure 2** depicts the groundwater contour map generated from water level measurements collected on June 22, 2020.

GMCH entered into three Brownfield Cleanup Agreements (BCAs) with the New York State Department of Environmental Conservation (NYSDEC) which were executed in May 2010. A BCP Remedial Investigation (RI) was conducted at Buildings 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 BCP Site for Building 7 (BCP Site #C932138) was consolidated with former BCP Sites C932139 (Building 8) and C932140 (Building 10) under BCP Site C932138. BCP agreements for Sites C932139 and C932140 have been 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 the Department on June 14, 2016, GMCH implemented the Site remedy for groundwater which involved the in-situ application of 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 into remedial injection wells in June 2016.

For the combined BCP Site # C932138, a site-specific Site Management Plan (SMP) was prepared and approved by the Department on December 2, 2016. Included in the BCP Site SMP is a discussion of the groundwater monitoring program, a Field Sampling Plan (FSP), and a Quality Assurance Project Plan (QAPP). Relative to the groundwater monitoring, the BCP Site SMP is essentially identical to that of the Delphi Harrison Thermal Systems (DHTS) Site (Registry Site #932113) SMP. Beginning with the May 2017 sampling event, groundwater monitoring of the combined BCP Site followed the requirements of the approved BCP Site SMP.

2.0 GROUNDWATER MONITORING AND SAMPLING

The June/July 2020 groundwater sampling and analytical parameters were consistent with those described in the combined BCP Site SMP. In addition to the MNA parameters identified in the SMP, carbon dioxide (CO₂), ethane, and ethene were included in the parameter list to assist with the evaluation of the total organic carbon (TOC) fate and transport within the formation and the reductive dechlorination product of PCE, daughter product vinyl chloride, which sequentially degrades to ethene, ethane, and CO₂.



METHODOLOGY

The groundwater monitoring and sampling were performed using low-flow sampling techniques with a peristaltic pump, disposable polyethylene tubing and a water quality meter with a flow-through cell to collect water quality field parameters.

Groundwater pumping rates used during purging and sampling varied at the monitoring locations to establish a relatively stable water level. Once a stable water level was established within the monitoring well, flow rates were maintained during the sampling period. Samples were collected for analysis after field-measured parameters stabilized.

Note that a stable water level could not be established in three monitoring wells (MW-7-4, MW-7-8, and MW-8-3). These wells were purged to dry-like conditions and allowed to recharge until the water level recovered to within 85% of the water level measured prior to sampling.

Analytical Parameters

Chlorinated Organic Compounds of Concern (COCs) include:

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

Inorganics include:

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

Natural Attenuation Parameters include:

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



Field Measured Parameters include:

- 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. The 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** and the Analytical Data Reports prepared by Eurofins Test America Laboratory are included in **Appendix F**. **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 the MNA performance data. **Appendix E** contains a Well Condition Summary Table.

3.0 ANALYTICAL RESULTS AND DISCUSSION

The analytical results for all 25 wells sampled in June/July 2020 are summarized in **Table 1**. **Appendix D** contains the evaluation of the MNA data. Results are discussed below by Building areas of concern, (Building 7, Building 8, and Building 10):

Building 7

Eleven (11) monitoring wells were sampled in association with Building 7 as follows:

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 2020 results for the two potential source area wells, located along the western wall of Building 7, show the intended effects of the in-situ biostimulation conducted in June 2016, although well MW-7-A-6 looks to be progressing more quickly than well MW-7-7. Well MW-7-A-6 shows an absence of PCE for a second year in a row, an absence of TCE for the first time, and a reduction of 1,2-DCE by an order of magnitude. Production of daughter products TCE, *cis*-DCE, and VC remains strong in MW-7-7. COC solubility is enhanced by degradation products of organic carbon. As the EVO is degraded by native bacteria, short-lived byproducts (*e.g.*, alcohols and ketones) are formed which help dissolve PCE that is sorbed to bedrock pores and surfaces, as well as to soil within bedrock fractures. The increase in PCE concentration in MW-7-7 in both of the last two years may be due to this increased solubility (aka co-solvency): this is desirable, because PCE must be dissolved in water for bacteria to utilize it.

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.



Evidence for anaerobic biodegradation at MW-7-7 and MW-7-A-6 is indicated by the increase of daughter compounds TCE, *cis*-DCE, and/or VC, which are produced by biological natural attenuation. MNA data indicate there is strong evidence for anaerobic biodegradation at both source area wells, the only two wells of the 25 sampled to have a ranking of “strong”.

Mid-Plume Area Wells:

Significant reduction in COCs is demonstrated by most of the mid-plume wells. Well MW-7-8, for the first time, was absent COCs at concentrations above practical quantitation limits (PQLs), showing clear response to the 2016 remedial injections. Well MW-7-P-1, for the first time ever, contained no COCs at concentrations above Class GA standards. Wells MW-7-5 and MW-7-C-2 showed significant reductions COCs as well.

Two of the five mid-plume monitoring wells (MW-7-P-1 and MW-7-6) indicate adequate evidence for anaerobic biodegradation. The remaining three mid-plume wells (MW-7-C2, MW-7-5 and MW-7-8) indicate limited evidence for anaerobic biodegradation. The COC concentrations from these five wells are two to three orders of magnitude lower than the COC concentrations detected upgradient at the potential source areas at wells MW-7-A-6 and MW-7-7.

Downgradient Area Wells:

Samples from all four downgradient wells contained no COCs at concentrations above the PQLs, or, where present (at well MW-7-3), were below their respective Class GA criteria².

Conclusion

The down-gradient well locations indicate that groundwater with COCs at concentrations above Class GA groundwater standards does not appear to be present at the downgradient property boundary nor migrating from the GMCH property (see Figure 3).

Indicators that natural attenuation is occurring include:

- 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 and VC in the mid-point of the plume; and
- evidence of reductive dechlorination occurring in the Building 7 wells in the potential source and mid-plume area based on the anaerobic biodegradation screening table (Appendix D).

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).



Building 8

Eight monitoring wells were sampled in association with Building 8 including MW-6-1, -6-2, -6-F-8, -8-1, -8-2, -8-3, -8-4, and -8-003-B; see **Figure 1**.

The highest total COC concentrations have consistently been detected in wells MW-8-2 (5,000 µg/L in 2020) and MW-8-003-B (1700 µg/L in 2020). The concentrations of COCs detected at both locations have shown significant decreases since 2014. The MNA data indicate there is limited to adequate evidence of anaerobic biodegradation, yet *cis*-DCE is the COC detected at the highest concentration in most locations where COCs are detected around Building 8, indicating that reductive dechlorination of the parent compound (TCE) is occurring at Building 8. For the first time ever, no COCs were detected above PQLs at well MW-8-3. With the exception of MW-8-003-B, all Building 8 monitoring wells are dominated by daughter compounds *cis*-DCE and VC. Well MW-8-003-B showed a significant increase in PCE concentration with a corresponding absence of other COCs.

Groundwater associated with Building 8 is migrating towards the southeast in the area of the Delphi Harrison Thermal Systems (DHTS) site easement area and a portion of the Mahle property outside the easement area (see **Figure 2**). Natural attenuation processes are reducing the COC contamination to non-detectable levels or below the NYSDEC Class GA criteria along Upper Mountain Road (see **Figure 3**). Also, for the first time observed, well MW-3 contained no COCs at concentrations above PQL during the 2020 sampling event. Consistent with past sampling events, no VOCs were detected above the Class GA groundwater standards in monitoring wells MW-8-1, MW-6-1, MW-6-2, and MW-6-F-B. Well MW-6-1 is located east of Building 8 along Upper Mountain Road and north of the DHTS site easement area. Therefore, it does not appear that contaminated groundwater from the area of 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) in addition to production of PCE and TCE daughter compounds *cis*-DCE and VC.

Well MW-8-1 is located upgradient of the Building 8 COC plume and wells MW-6-2 and MW-6-F-B are located cross gradient of Building 8 and well outside of the DHTS site. Because of their location of either upgradient or cross gradient of the Building 8 plume and their consistent absence of COCs above Class GA groundwater standards, we recommend ceasing sampling of wells MW-8-1, MW-6-2, and MW-6-F-8.

Building 10

Six monitoring wells were sampled in association with Building 10 (Bldg 10 MW-1, MW-10-2, MW-10-3, MW-9-101A, MW-9-12, and TK-6; see **Figure 1**) in June/July 2020. The analytical results for the Building 10 monitoring wells are summarized in **Table 1** and **Appendix D** contains the evaluation of the MNA data.

The MNA data from the four of the six wells sampled at Building 10 indicate there is limited evidence for anaerobic biodegradation. The June/July 2020 analytical results are generally similar to those of the 2019 results with no significant anomalies to note. The presence of the breakdown products *cis*-DCE and VC, however, in wells MW-10-2 and MW-10-3 is indicative of intrinsic reductive dechlorination occurring down-gradient of Building 10.

Groundwater elevations measured at the wells near Building 10 indicate that groundwater is generally migrating in an easterly direction, See **Figure 2**.



Another nearby source of COCs is present in the groundwater downgradient (east) of Building 10 associated with Building 7. This area between Buildings 7 and 10 was the focus of an in-situ remedial injection program that was implemented in June 2016. Dramatic decreases in parent COCs (TCE and PCE) as well as increases in breakdown products (*cis*-DCE and VC) are observed in the post-injection analytical data collected 30, 60, 90 and 180 days after injection. Post-injection data was provided to the Department in December 2016 in the Final Engineering Report. Also, natural attenuation appears to be continuing to reduce the COCs to non-detectable levels and levels below the Class GA groundwater standards at the GMCH Facility downgradient property line (see **Figure 3**).

Because of its location upgradient of Building 10 and its consistent absence of COCs, we recommend ceasing sampling of well TK-6.

4.0 GROUNDWATER MONITORING CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

Results of the June 2020 groundwater monitoring indicate that groundwater impacts remain within the spatial limits of the BCP and DHTS Sites (**Figure 3**). Impacted groundwater from Building 8 is migrating southeast towards the DHTS Site easement area and Mahle property. Impacted groundwater from Buildings 7 and 10 are generally migrating in an easterly direction from the source areas identified. However, contaminated groundwater does not appear to be migrating beyond Upper Mountain Road as the monitoring wells along the west side of Upper Mountain Road do not exhibit concentrations of COCs above the PQLs, or Class GA standards. The four downgradient wells (from north to south) are: MW-6-2, MW-6-1, MW-7-2 and MW-7-4. (**Figure 1**). Well MW-7-1R is located near the southern property line and does not exhibit concentrations of COCs above the PQLs, which are below the Class GA criteria. We also note that downgradient monitoring wells MW-11, MW-13 and MW-14, from the DHTS Site, do not show concentrations of COCs above their respective PQLs or GW standards. Therefore, the results from the Building 7, Building 8, Building 10, and DHTS Site downgradient wells indicate that the plume is stable. There is evidence for anaerobic biodegradation at all upgradient well locations where COCs have been detected. It does not appear that contaminated groundwater is migrating beyond Upper Mountain Road.

As specified in the Decision Document (DD) issued by the Department on June 14, 2016, GMCH implemented the Site remedy for groundwater which involved the in-situ application of a chemical reducing agent ZVI and biostimulation amendment EVO. These were applied into remedial injection wells 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-7-5 and MW-10-2) proximal to the remedial injection program. At the same time, these wells (as well as MW-7-7, which was also proximal to, but less dramatically influenced by, the remedial injection program) continue to exhibit a predictable increase in concentrations of breakdown COCs (*cis*-DCE and VC), as well as VC degradation products (ethene, ethane, and CO₂) providing encouraging evidence of enhanced natural attenuation due to the remedial injection program.



RECOMMENDATIONS

GZA recommends continuing the annual groundwater sampling event in the spring of 2021, including the same 25 wells sampled in 2020 except for the four aforementioned wells MW-6-2, MW-6-F-8, MW-8-1, and TK-6. Sampling would be conducted using the methodologies outlined in the Site Management Plan for the BCP Site, which was approved by the Department on December 2, 2016.

Natural attenuation, dominated by biological reductive dechlorination, is widespread at the Site, demonstrated by:

- MW-7-A-6, one of the two primary source area wells that were targeted by the injection wells, is dominated by PCE/TCE daughter products *cis*-DCE and VC, which, in 2020, represent 100% of the COCs at this location.
- MW-7-A-6 TOC is still high (42 mg/L), and other MNA parameters are strongly favorable, including ethene, the initial anaerobic degradation product of VC, which is 2,800 µg/L.
- MW-7-7 is the other primary source area well that is targeted by the existing injection wells; however, the fracture connectivity may not be as favorable as that between MW-7-A-6 and the injection wells, as suggested by the less favorable increase in TOC following the injections. TOC in MW-7-7 reached a high of 16.2 mg/L in May 2017, declining to 10.3 mg/L in May 2019. This is still enough for reductive dechlorination, as indicated by the continued production of PCE/TCE daughter products *cis*-DCE and VC.
- Although MW-7-7 PCE was higher in May 2019 than May 2018 (54,000 µg/L vs. 23,000 µg/L), reductive dechlorination is continuing to proceed at this location. May 2019 daughter products *cis*-DCE and VC comprise 39% of total COCs, comparable to 42% *cis*-DCE and VC in May 2018.
- In MW-10-2, a monitoring well that is located between MW-7-7 and MW-7-A-6 and was also influenced by the injection program, PCE and TCE have been below GA criteria since May 2017. Now that PCE and TCE (which are more desirable COCs for dechlorinating bacteria) have been degraded, *cis*-DCE and VC are also decreasing in MW-10-2, from 241 and 2,600 µg/L, respectively, in May 2017 to 15 and 15 µg/L in May 2019.



TABLES

Table 1
Summary of Groundwater Sample Analytical Results
GMCH Lockport Site
Buildings 7, 8 10
Site No. C932138

Sample Location Sample Date	Class GA Criteria	BUILDING 7 AREA WELLS																							
		MW-7-1R 7/2/2020		MW-7-2 6/30/2020		MW-7-3 6/30/2020		MW-7-4 7/1/2020		MW-7-5 7/9/2020		MW-7-6 7/7/2020		MW-7-7 7/7/2020		MW-7-8 7/9/2020		MW-7-A-6 7/7/2020		MW-7-C-2 7/9/2020		MW-7-P-1 7/13/2020			
		Q	Q	Q	Q	Q	Q	Q	Q	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		ND		5.6		480		54,000		ND		62,000		220		1.2			
Tetrachloroethene	5	ND		ND		ND		ND		48		560		68,000		ND		ND		ND		ND			
trans-1,2-dichloroethene	5	ND		ND		ND		ND	U	ND		ND		ND		ND		ND		ND		2.8			
Trichloroethene	5	ND		ND		ND		ND		7.4		260		6,800		ND		ND		ND		ND			
Vinyl Chloride	2	ND		ND	1.8	J		ND	U	ND		11		9,600		ND		18,000		28		1.7			
Total VOCs		ND		ND		1.8		ND		61		1,311		138,400		ND		80,000		248		5.7			
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	18		14.4		17		14.2		21.3		17.5		16.8		17.00		19.9		18.3		21.1			
Specific Conductance (mS/cm)	NV	7.7		0.908		24.178		1.622		0.974		16.271		12.787		13.487		4.675		1.855		16.897			
Dissolved Oxygen (mg/L)	NV	0.39		0.75		0.46		5.51		5.19		0		0.31		1.40		0.3		0.43		0.45			
Oxygen Reduction Potential (mv)	NV	51.9		110.9		-38.1		152.2		85.3		0.41		-318.2		-18.1		-290		-165.1		-123.7			
pH (std. units)	NV	7.18		7.26		6.96		7.13		7.73		7.13		6.84		6.52		6.79		7.38		6.55			
Turbidity (NTUs)	NV	6.86		1.07		5.93		1.24		37.61		3.9		15.51		19.96		4.04		2.94		1.04			
Inorganics (mg/L)																									
Iron	0.3	0.094		0.028	J	5.5		0.25		1.1	^	0.12		0.049	J	14.8	^	11.6		2.0	^	66.3			
Magnesium	35 ^{Note 4}	134		34.5		148		35.3		187		71.2		231		201		120		74.2		251			
Manganese	NV	0.51	B	0.012		0.42		0.012	B	1.60	^	0.18		0.051		0.94	^	1.8		0.15	^	3.5			
Potassium	NV	6.3		1.00		30.9		2.3		16.4	B	10.8		43.6		52.7	B	3.2		7.8	B	30.1			
Sodium	20	969		51.6		4,710		130		3,220		2,300	B	1,650	B	2,060	^	462	B	135	^	159			
Miscellaneous Water Quality Parameters																									
Methane (ug/L)	NV	28.0		ND		330		ND		ND		240		900		94.0		2,500		460		6,300			
Ethane (ug/L)	NV	ND		ND		ND		ND		ND		5.6	J	40	J	1.0		ND		ND		ND			
Ethene (ug/L)	NV	ND		ND		ND		ND		ND		ND		1300		8.0		2,300		ND		ND			
Carbon Dioxide (ug/L)	NV	66,000		35,000		87,000		36,000		26,000		35,000		76,000		37,000		170,000		23,000		100,000			
Total Organic Carbon (mg/L)	NV	1.5		1.7		3	J	1.2		11.3		2		17.3		1.3		13.4		1.5		6			
Alkalinity (mg/L)	NV	316		347	F1 ^	382		376	F1	372	F1	300		316	F1	83.2		474		235		199			
Ammonia (mg/L)	NV	ND		ND	F1	1.6		ND		ND		ND		3.5		0.84		0.053		0.37		200			
Chloride (mg/L)	NV	2,380		87.7		8,250		264		98		4,990		4,030		4,580		1130		189		2,980			
Nitrate (mg/L)	NV	ND		0.022	J	ND		0.042	J	2.3		0.16		ND		0.074		0.058		ND		ND			
Nitrite (mg/L)	NV	ND		ND		ND		ND		0.11		ND		ND		0.026	J	0.026	J	ND		ND			
Sulfate (mg/L)	NV	123.0		20.3		715		53.7		10.9		238		432		205		47.5		477		ND			
Sulfide (mg/L)	NV	ND		ND		ND		ND		ND		ND		17.6		ND		1.6		ND		ND			

- Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
 2. "<" indicates compound was not detected above the method detection limit.
 3. Analytical testing completed by TestAmerica in Amherst, New York.
 4. Criteria is a guidance value.
 5. 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 or LCSD exceeds the control limits. 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.
 6. mg/L = parts per million; ug/L = parts per billion
 7. 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.
 8. NV = no value, NT = not tested. ND= Not Detected
 9. Shaded concentrations exceed Class GA criteria.
 10. 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 Site
Buildings 7, 8 10
Site No. C932138

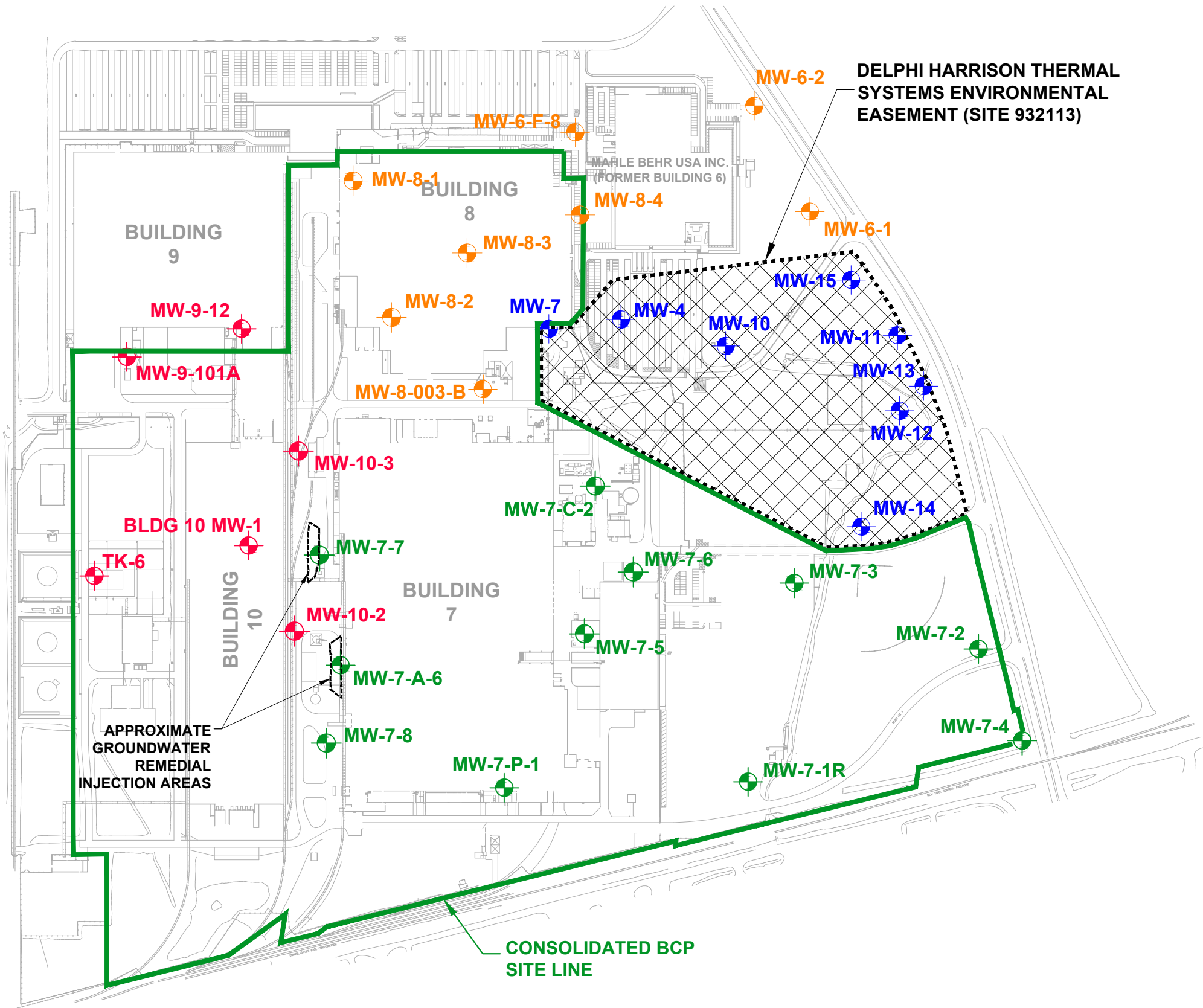
Sample Location Sample Date	Class GA Criteria	BUILDING 8 AREA WELLS										BUILDING 10 AREA WELLS									
		MW-6-1 6/29/2020	MW-6-2 6/26/2020	MW-6-F-8 6/29/2020	MW-8-1 7/10/2020	MW-8-2 7/10/2020	MW-8-3 7/10/2020	MW-8-4 7/2/2020	MW-8-003-B 7/10/2020	MW-9-101A 7/13/2020	MW-9-12 7/13/2020	TK-6 7/6/2020	BLDG-10-MW-1 7/13/2020	MW-10-2 7/6/2020	MW-10-3 7/6/2020						
		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	0.84	J	4,500	ND	60	ND	ND	ND	ND	140.0	1.2						
Tetrachloroethene	5	ND	ND	ND	ND		ND	ND	1700	J	ND	ND	ND	170,000	ND	3					
trans-1,2-dichloroethene	5	ND	ND	ND	ND		12	ND	ND	ND	ND	F1, F2	ND	6.5	ND						
Trichloroethene	5	ND	ND	ND	ND		11	ND	9.5	ND	ND	ND	5,200	1.0	J	3.5					
Vinyl Chloride	2	ND	ND	ND	ND		480	ND	17	ND	ND	ND	ND	98	ND						
Total VOCs		ND	ND	ND	0.84		4,980	ND	86.5	1,700	ND	ND	ND	175,200	245	8					
Polycyclic Aromatic Hydrocarbons (PAHs) (ug/L)																					
16 PAHs analyzed	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT						
Field Parameters																					
Temperature (Deg. C)	NV	15.5	13.5	17.9	16.1	19	20.4	17.3	20.4	21.8	14.8	13.7	20.2	18.7	17.4						
Specific Conductance (mS/cm)	NV	4.033	4.093	12.633	5.713	2.029	7.903	13.163	16.385	12.938	3.826	20.400	2.823	8.693	1.722						
Dissolved Oxygen (mg/L)	NV	-0.11	-0.18	-0.02	0.36	0.39	2.36	0.39	0.57	2.48	0.47	1.56	0.49	0.28	0.99						
Oxygen Reduction Potential (mv)	NV	-88.1	78.1	75.7	-239.6	-147.2	-31	-21.6	144.7	156.4	70.7	125	-57.8	-295.9	104.1						
pH (std. units)	NV	11.81	12.66	11.61	7.07	7.42	6.95	7.56	7.54	6.87	7.47	7.27	7.12	7.37	7.62						
Turbidity (NTUs)	NV	7.22	10.21	3.52	4.14	1.03	11.6	2.5	5.81	1.15	1.9	12.07	1.42	2.27	0.99						
Inorganics (mg/L)																					
Iron	0.3	8.6	0.13	0.034	J	0.06	0.035	J	2.3	0.47	0.25	ND	0.18	ND	1.3	0.56	ND				
Magnesium	35 ^{Note 4}	55.1	56	159	120	45.4	60.3	73.5	24.0	145	31.8	28.3	101	57.8	29.4						
Manganese	NV	1.3	0.33	0.28	0.11	0.0290	7.9	0.6	B	0.99	0.21	0.33	0.001	J B	0.62	0.24	B	0.0010	J B		
Potassium	NV	2.5	4.8	6.2	20.9	^ B	15.5	B	483	B	13.6	6.5	32.4	5.2	0.82	5.1	8.3	7.9			
Sodium	20	456	831	2,160	652	237	359	2,480	3,150	2,000	617	644	133	1,550	169						
Miscellaneous Water Quality Parameters																					
Methane (ug/L)	NV	5.2	ND	ND	120	190	330	280	ND	ND	11.0	ND	4.6	3,200	ND						
Ethane (ug/L)	NV	ND	ND	ND	12	2.4	J	ND	ND	ND	ND	ND	ND	140	U	ND					
Ethene (ug/L)	NV	ND	ND	ND	ND	2.4	J	ND	ND	ND	ND	ND	ND	310	ND						
Carbon Dioxide (ug/L)	NV	120,000	63,000	64,000	52,000	24,000	96,000	23,000	14,000	38,000	27,000	24,000	79,000	26,000	13,000						
Total Organic Carbon (mg/L)	NV	4	2.5	1.2	1.0	1.5	10.4	2.2	2	3.3	1.3	1.7	3.9	4.6	1.2						
Alkalinity (mg/L)	NV	438	406	363	F1	302	322	322	269	285	239	385	302	346	181						
Ammonia (mg/L)	NV	0.2	B	ND	F1	ND	1.2	0.49	5.2	0.051	0.075	ND	F1	0.20	0.27	0.037					
Chloride (mg/L)	NV	966	1,290	4,050	1,380	^	383	^	2,000	^	4,140	5,270	3,920	1,020	843	614	2,410	198			
Nitrate (mg/L)	NV	0.076	0.100	0.15	ND	0.2	0.09	ND	0.41	1.3	0.36	0.43	ND	ND	0.54						
Nitrite (mg/L)	NV	ND	0.028	J	0.02	J	0.023	J B	0.100	B F1	ND	ND	1.3	0.36	ND	ND	ND				
Sulfate (mg/L)	NV	49.8	110	359	822	160	56.9	369	194	1,290	136.0	183	255	165	171						
Sulfide (mg/L)	NV	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	U	9.2	ND					

Notes:

- Only compounds detected in one or more of the groundwater samples are presented in this table.
- "<" indicates compound was not detected above the method detection limit.
- 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 or LCSD exceeds the control limits. 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.
- 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.
- 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



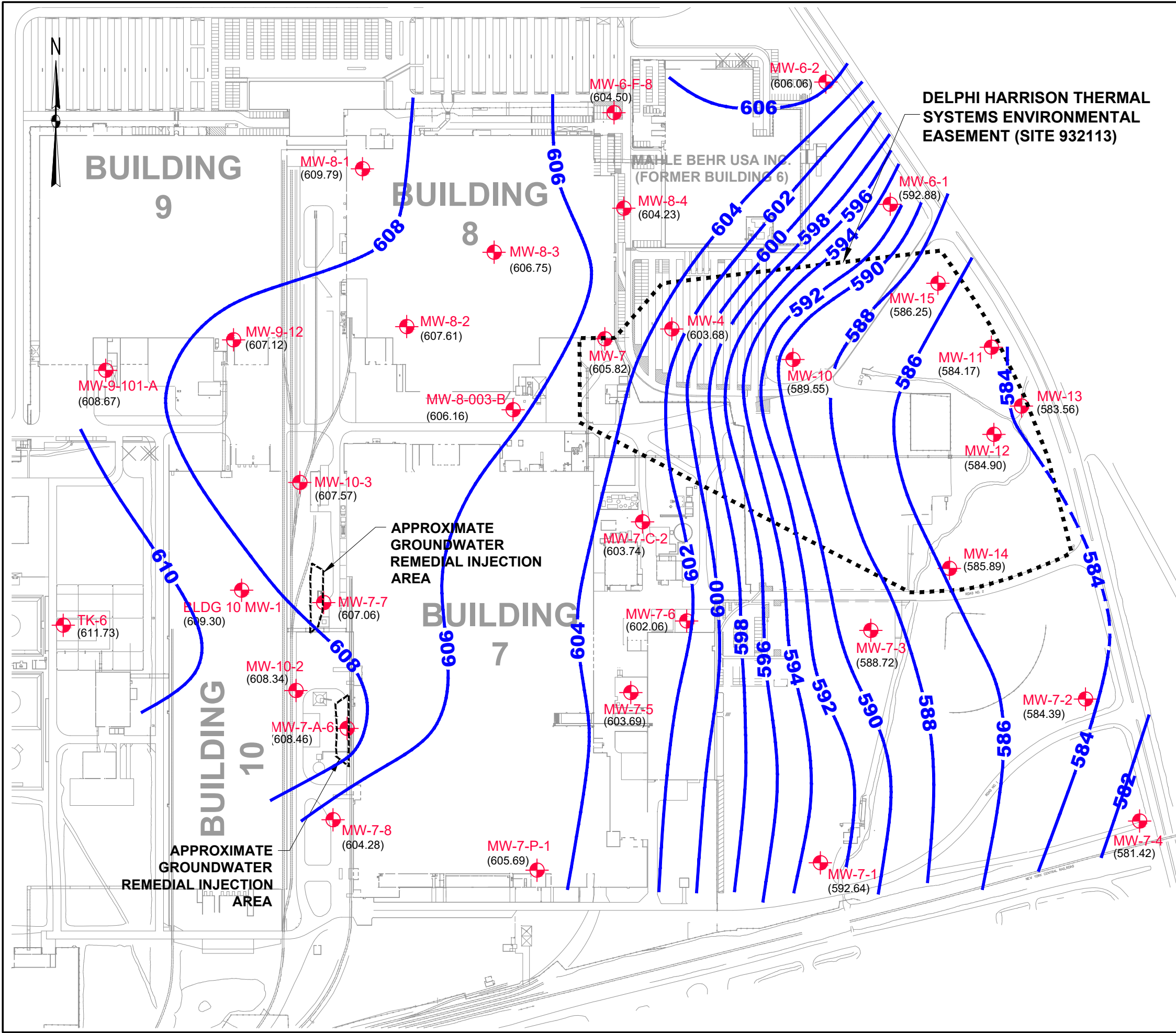
- LEGEND:**
- MW-11** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITHIN THE DELPHI HARRISON THERMAL SYSTEMS SITE
 - MW-7-2** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING 7
 - MW-6-1** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED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



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GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY				
2020 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: JJR	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO	
DESIGNED BY: DEW	DRAWN BY: DEW	SCALE: AS SHOWN	1	
DATE: SEPTEMBER 2020	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 1 OF 3	

© 2019 - GZA GeoEnvironmental, Inc. GZA-K:\PROJECTS\56500s\56546 GM Component LLC\BCP Sites Annual Low Flow Samp\Sept 2020\Fig 2.dwg [Figure 2] September 25, 2020 - 1:50pm Daniel Wulf



LEGEND:

-  **MW-6-1** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS SAMPLED JUNE & JULY 2020 WITH GROUNDWATER ELEVATION (FEET) MEASURED ON 6/22/2020.
-  **586** GROUNDWATER ELEVATION CONTOUR

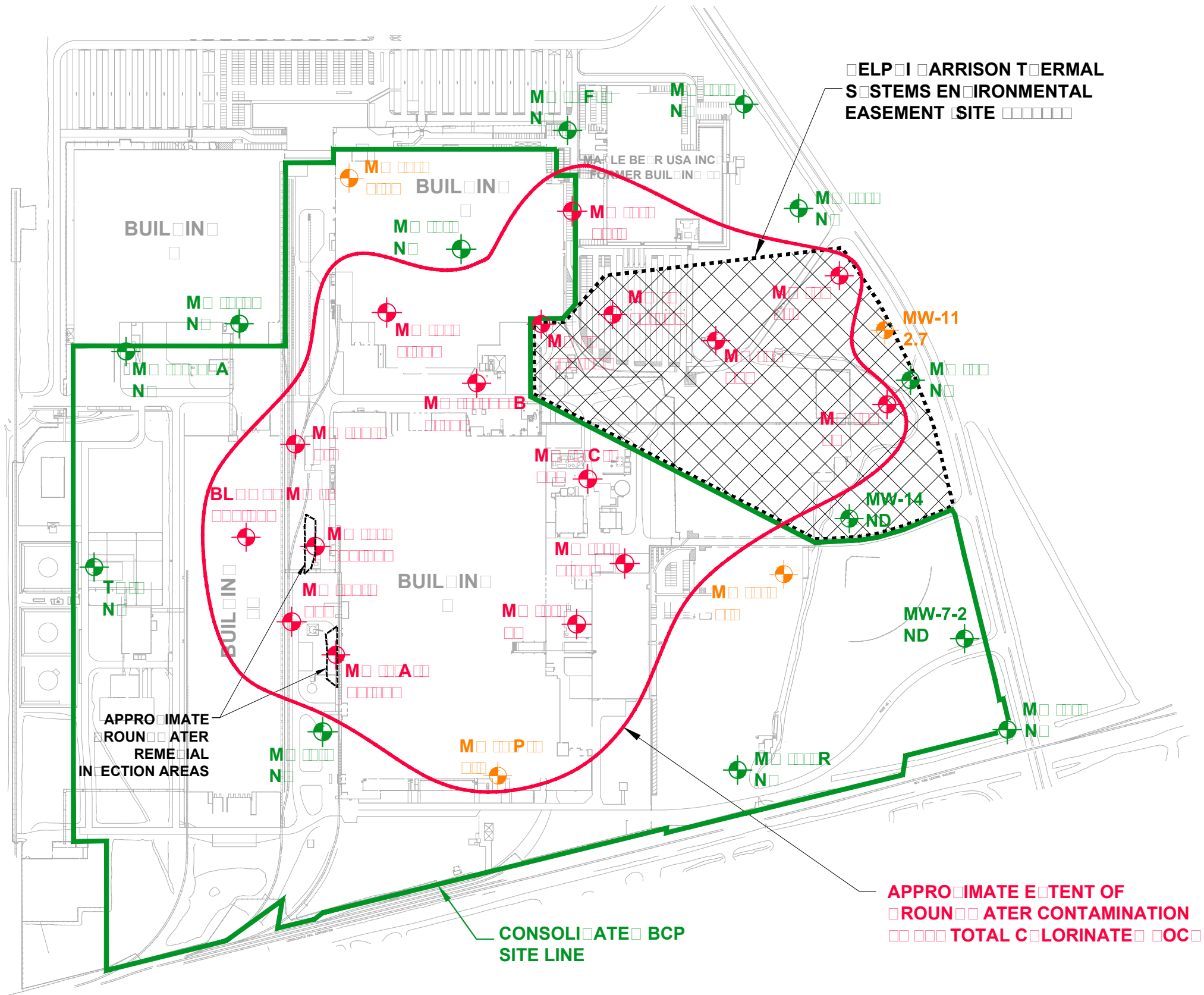
NOTES:

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 6/22/2020 GROUNDWATER MEASUREMENTS



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GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY				
2020 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: JJR	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO.	
DESIGNED BY: DEW	DRAWN BY: DEW	SCALE: AS SHOWN	2	
DATE: SEPTEMBER 2020	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 2 OF 3	

©2019 - GZA GeoEnvironmental, Inc. GZA-C:\Users\michael.kress\Desktop\JIM STUFF\Delphi\BCP ANNUAL MONITORING\Fig 1 & 3.dwg [FIGURE 3] March 15, 2021 - 11:13am Michael.Kress



LE EN

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

NOTES

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SITE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GROUNDWATER SAMPLES COLLECTED BETWEEN 6/24/2020 AND 7/13/2020.



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GM COMPONENTS HOLDINGS, LLC LOCKPORT FACILITY				
2020 BCP SITE ANNUAL GROUNDWATER MONITORING EXTENT OF CHLORINATED SOLVENT CONTAMINATION				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineer and Scientist GZA		PREPARED FOR: GM COMPONENTS HOLDINGS, LLC 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK		
PROJ MGR: JJR	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO	
DESIGNED BY: DEW	DRAWN BY: DEW	SCALE: AS SHOWN	3	
DATE: MARCH 2021	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 3 OF 3	



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 T. Bohlen SUPERVISOR Richer
 DATE OF SAMPLE COLLECTION 6/30/20 - 7/13/20

[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-	MW-7-1	596.96	22.51	4.95	592.01	2.9	/	0.6	7.2	18.0	7.7	1100	VOC + MNA
MW-7-2-	MW-7-2	592.57	21.66	8.43	584.14	2.2	/	0.4	7.3	14.4	0.908	1258	
MW-7-3-	MW-7-3	593.03	24.97	4.31	588.72	3.4	/	0.4	6.5	17.0	24.2	1355	
MW-7-4-	MW-7-4	593.53	21.49	12.09	581.44	1.5	/	1.0	7.1	14.2	1.62	941	
MW-7-5-	MW-7-5	610.96	21.08	7.51	603.45	2.1	/	0.7	7.7	21.3	0.97	924	
MW-7-6-	MW-7-6	606.30	16.54	4.46	601.84	2.0	/	0.4	7.1	17.5	16.3	1336	
MW-7-7-	MW-7-7	610.24	22.09	3.20	607.04	3.1	/	0.5	6.8	16.8	12.8	1011	
MW-7-8-	MW-7-8	610.92	19.46	2.55	608.37	2.8	/	2.9	6.52	17.0	13.5	806	↓

Additional Comments:

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 PROJECT NO. 56546.20 T. 4
 SAMPLING CREW MEMBERS T. Bohlen SUPERVISOR Richert
 DATE OF SAMPLE COLLECTION 6/30/20 - 7/13/20

[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-	MW-7-A-6	610.72	14.02	2.81	607.91	1.8	/	0.4	6.79	19.9	4.7	1027	VOC + MNA
MW-7-C-2-	MW-7-C-2	608.96	24.09	5.31	603.65	3.1	/	0.5	7.38	18.3	1.9	1040	
MW-7-P-1	MW-7-P-1	-	19.89	9.69	-	1.7	/	0.5	6.55	21.1	16.9	1242	↓
							/						
							/						
							/						
							/						
							/						
							/						

Additional Comments: _____

Copies to: _____

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

PID @ breathing space = 0.0 ppm

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 7/2/20
Personnel: T. Bohlen

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): 10'

Depth to Pump Intake (ft)⁽¹⁾: ~17

Well Diameter, D (in): 2

Well Screen Volume, V_s (mL)⁽²⁾: 2.86

Initial Depth to Water (ft): 4.95

[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 BCP Annual GW Sampling

JOB# 56546-20

WELL# MW-7-1

070220
PURGE DATE
(MM DD YY)

070220
SAMPLE DATE
(MM DD YY)

129
WATER VOL IN CASING
(LITRES/GALLONS)

106
ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED 0 N
(CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED 0 N
(CIRCLE ONE)

PURGING DEVICE B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X-
B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® 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) TEFLON/POLYPROPYLENE 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 592.01 (m/ft)

DEPTH TO WATER 49.5 (m/ft)

WELL DEPTH 122.51 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	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)
<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 ODOR none COLOR Clear TURBIDITY Clear
WEATHER CONDITIONS WIND SPEED 0-5 DIRECTION NW PRECIPITATION Y/N OUTLOOK n
SPECIFIC COMMENTS

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

7/2/20
DATE

Thomas Bohlen
PRINT

Thomas Bohlen
SIGNATURE

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

PID @ breathing space = 0.0ppm

Project Data:

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

Date: 6/30/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-2
Measurement Point: TOR
Constructed Well Depth (ft): 20
Measured Well Depth (ft): 21.66
Depth of Sediment (ft): _____

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: -15
Well Diameter, D (in): 2
Well Screen Volume, V_{sc} (in)⁽²⁾: 2.15
Initial Depth to Water (ft): 8.43

[illegible]

Notes:

- 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 .

PID @ breathing space = 0.0 ppm

Project Data:

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

Date: 6/30/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-3
Measurement Point: TOR
Constructed Well Depth (ft): 25
Measured Well Depth (ft): 24.97
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⁾: 3.36

Initial Depth to Water (ft): 4.31

[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, $V_s = \pi \cdot (D/2)^2 \cdot (5'12) \cdot (2.54)^3$
- (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 .

PID @ breathing space = 0.0 ppm

Project Data:

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

Date: 6/30/20 / 7/1/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-4
Measurement Point: TOR
Constructed Well Depth (ft): 19.0
Measured Well Depth (ft): 21.42
Depth of Sediment (ft):

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: ~~17~~ 15.85
Well Diameter, D (in): 2
Well Screen Volume, V_s (in)⁽²⁾: 1.52
Initial Depth to Water (ft): 12.09

[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>GMCH Lockport Bldg Annual GW Sampling</u>				WELL# <u>MW-7-4</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/6/30/20</u>	SAMPLE DATE (MM DD YY) <u>10/7/20/20</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>1115</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>1115</u>	
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 - WATERAID	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- _____ SAMPLING OTHER (SPECIFY)		
(SPECIFY)				
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>593.53</u> (m/ft)	GROUNDWATER ELEVATION <u>1581.44</u> (m/ft)		WELL DEPTH <u>2142</u> (m/ft)	
DEPTH TO WATER <u>1209</u> (m/ft)				
pH <u>7.1</u> (std)	TURBIDITY <u>0.5</u> (ntu)	CONDUCTIVITY <u>1115</u> (um/cm) AT 25°C	ORP <u>1115</u> (mV)	DO <u>1115</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.5</u> (ntu)	CONDUCTIVITY <u>1115</u> (um/cm) AT 25°C	ORP <u>1115</u> (mV)	DO <u>1115</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.5</u> (ntu)	CONDUCTIVITY <u>1115</u> (um/cm) AT 25°C	ORP <u>1115</u> (mV)	DO <u>1115</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.5</u> (ntu)	CONDUCTIVITY <u>1115</u> (um/cm) AT 25°C	ORP <u>1115</u> (mV)	DO <u>1115</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.5</u> (ntu)	CONDUCTIVITY <u>1115</u> (um/cm) AT 25°C	ORP <u>1115</u> (mV)	DO <u>1115</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u>	ODOR <u>none</u>	COLOR <u>Clear</u>	TURBIDITY <u>Clear</u>	PRECIPITATION Y/N OUTLOOK <u>n</u>
WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>W</u>				
SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS				
DATE <u>7/6/20</u>	PRINT <u>Thomas Bohlen</u>		SIGNATURE <u>Thomas Bohlen</u>	

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

PID @ breathing space = 0.0ppm

Project Data:

Date: 7/9/20
Personnel: T. Bohlen

Monitoring Well Data:

Screen Length (ft): 7'

Depth to Pump Intake (ft)⁽¹⁾: 18

Well Diameter, D (in): 2

Well Screen Volume, V_s (m³)⁽²⁾: 2.21

Initial Depth to Water (ft): 7.51

[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. $V_s = \pi \cdot (D/2)^2 \cdot (5'12) \cdot (2.54)^3$
- (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 .

* Bubbles observed in flow through cell

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport BCP Annual GW Sampling</u>				WELL# <u>MW-7-5</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/7/18</u>	SAMPLE DATE (MM DD YY) <u>10/7/18</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>122</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>10.7</u>	
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 G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE ☒ E	C - ROPE	X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>610.96</u> (m/ft)	GROUNDWATER ELEVATION <u>603.45</u> (m/ft)		WELL DEPTH <u>210.8</u> (m/ft)	
DEPTH TO WATER <u>7.51</u> (m/ft)				
pH _____ (std)	TURBIDITY _____ (ntu)	CONDUCTIVITY _____ (µm/cm) AT 25°C	ORP _____ (mV)	DO _____ (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>Good</u> ODOR <u>none</u> COLOR <u>Light Brown</u> TURBIDITY <u>Cloudy</u>				
WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>SW</u> PRECIPITATION Y/N OUTLOOK <u>N</u>				
SPECIFIC COMMENTS _____				

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE <u>7/19/20</u>	PRINT <u>Thomas Bohlen</u>	SIGNATURE <u>Thomas Bohlen</u>		

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

PID @ breathing space = 0.0ppm

Project Data:

Date: 7/7/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-6
Measurement Point: TOR
Constructed Well Depth (ft): 16.9
Measured Well Depth (ft): 16.54
Depth of Sediment (ft):

Screen Length (ft): 7'

Depth to Pump Intake (ft)⁽¹⁾: 13

Well Diameter, D (in): 2

Well Screen Volume, V_s (gal)⁽²⁾: 1.97

Initial Depth to Water (ft): 4.46

[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 .

* no shade

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport B&E Annual GW Sampling</u>				WELL# <u>MW-7-6</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/70/720</u>	SAMPLE DATE (MM DD YY) <u>10/70/720</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>20</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>10.4</u>	
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 - WATERAID	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 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	<u>1606.30</u> (m/ft)	GROUNDWATER ELEVATION	<u>1601.84</u> (m/ft)	
DEPTH TO WATER	<u>4.46</u> (m/ft)	WELL DEPTH	<u>116.54</u> (m/ft)	
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u>7.2</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.2</u> (mg/L)
<u>7.2</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.2</u> (mg/L)
<u>7.2</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.2</u> (mg/L)
<u>7.2</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.2</u> (mg/L)
<u>7.2</u> (std)	<u>0.5</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.2</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE	<u>Good</u>	ODOR	<u>solvent</u>	COLOR
WEATHER CONDITIONS	WIND SPEED	<u>0.5</u>	DIRECTION	<u>SW</u>
SPECIFIC COMMENTS	PRECIPITATION Y/N OUTLOOK <u>Clear</u> TURBIDITY <u>Clear</u>			
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE	<u>7/17/20</u>	PRINT	SIGNATURE	
<u>Thomas Bohler</u>		<u>Thomas Bohler</u>		

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

$PID @ TOR = 315.5 ppm$ $PID @ \overset{\text{breathing}}{\text{space}} = 0.0 ppm$

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 7/7/20
Personnel: T. Bohler

Monitoring Well Data:

Well No.: MW-7-7
Measurement Point: TOR
Constructed Well Depth (ft): 22.7
Measured Well Depth (ft): 22.09
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 (m³)⁽²⁾: 3.08
Initial Depth to Water (ft): 3.20

[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 .

✕ - black flecks mitrally observed
in purge water.

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

PID @ TOR = 0.0 ppm

PID @ breathing space = 0.0 ppm

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 7/7/20 17/9/20
 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-B
 Measurement Point: TOR
 Constructed Well Depth (ft): 19.7
 Measured Well Depth (ft): 19.46
 Depth of Sediment (ft): _____

Screen Length (ft): 12.7 - 19.7 = 7
 Depth to Pump Intake (ft)⁽¹⁾: 14 13.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (gal)⁽²⁾: 2.76
 Initial Depth to Water (ft): 2.55 / 4.75

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⁾
7/7 912		2.98		6.76	16.4	12.796	-83.1	1.19	143.06*	0	Cloudy
917		7.42		6.51	17.9	11.533	-71.5	0.41	125.15	1.0	↓
922		10.61		6.19	19.4	11.551	-46.1	0.75	175.01	1.7	↓
927		11.50		6.81	16.2	10.030	-148.2	0.48	366.53	2.5	Lt. Brown
930		13.50		6.90	15.9	11.107	-155.2	0.57	376.96	2.9	↓
806		5.18		6.52	17.0	13.487	-18.1	1.40	19.96	-	

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 .

* Bubbles observed in flow through cell

WELL PURGING FIELD INFORMATION FORM SITE/PROJECT NAME: <u>6 MCH Lockport BCP Annual GW Sampling</u>				JOB# <u>56546-20</u> WELL# <u>MW-7-8</u>	
WELL PURGING INFORMATION					
PURGE DATE (MM DD YY) <u>10/7/08</u>	SAMPLE DATE (MM DD YY) <u>10/7/08</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>2.7</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>12.9</u>		
PURGING AND SAMPLING EQUIPMENT					
PURGING EQUIPMENTDEDICATED ☒ N (CIRCLE ONE)			SAMPLING EQUIPMENTDEDICATED ☒ 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)			
FILTERING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION <u>1610.92</u> (m/ft)	GROUNDWATER ELEVATION <u>1608.37</u> (m/ft)		WELL DEPTH <u>119.46</u> (m/ft)		
DEPTH TO WATER <u>2.55</u> (m/ft)	pH <u> </u> (std)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)	DO <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 <u>none</u> TURBIDITY <u>Cloudy</u>					
WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>SW</u> PRECIPITATION Y/N <u> </u> OUTLOOK <u> </u>					
SPECIFIC COMMENTS _____					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS					
<u>7/18/08</u> DATE		<u>Thomas Bohlen</u> PRINT		<u>Thomas Bohlen</u> SIGNATURE	

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

PID @ TOR = 75.1 Apm PID @ ^{breathing}space = 0.0 ppm

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 7/7/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-A-6
Measurement Point: TOP
Constructed Well Depth (ft): 14.25
Measured Well Depth (ft): 14.02
Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (gal)⁽²⁾: 1.83
 Initial Depth to Water (ft): 2.87

[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 .

* Black Fleck initially observed in purge water

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-A6</u>
<u>070720</u> PURGE DATE (MM DD YY)	<u>070720</u> SAMPLE DATE (MM DD YY)	<u>1118</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>0.4</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	D - GAS LIFT PUMP	G - BAILER	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>	B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERAID	X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE <u>E</u>	A - TEFLON	D - PVC	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>	B - STAINLESS STEEL	E - POLYETHYLENE	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE <u>E</u>	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.15 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1610.72</u> (m/ft)	GROUNDWATER ELEVATION <u>1607.91</u> (m/ft)		WELL DEPTH <u>140.2</u> (m/ft)	
pH <u> </u> (std)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)	DO <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> ODOOR <u>Solvent</u> COLOR <u>Clear</u> TURBIDITY <u>Cloudy</u>				
WEATHER CONDITIONS WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____				
SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE TEST PROTOCOLS				
<u>7/7/20</u> DATE	<u>Thomas Bohlen</u> PRINT	<u>Thomas Bohlen</u> SIGNATURE		

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

PID @ breathing space = 0.0ppm

Project Data:

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

Date: 7/9/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-C-2
Measurement Point: TOR
Constructed Well Depth (ft): 24.0
Measured Well Depth (ft): 24.09
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⁾: 3.06
 Initial Depth to Water (ft): 5.31

[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>6 MCH Lockport BCP Annual GW Sampling</u>				WELL# <u>MW-7-62</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>070920</u>	SAMPLE DATE (MM DD YY) <u>070920</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>3.1</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>0.5</u>	
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 - WATERAID	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- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1608.96</u> (m/ft)	GROUNDWATER ELEVATION <u>1603.65</u> (m/ft)		WELL DEPTH <u>24.09</u> (m/ft)	
DEPTH TO WATER <u>5.31</u> (m/ft)	pH <u>7.1</u> (std)	TURBIDITY <u>0.5</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>clear</u>	PRECIPITATION Y/N OUTLOOK <u>n</u>
WEATHER CONDITIONS	WIND SPEED <u>0.5</u>	DIRECTION <u>SW</u>		
SPECIFIC COMMENTS				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
DATE <u>7/9/20</u>	PRINT <u>Thomas Bohler</u>		SIGNATURE <u>Thomas Bohler</u>	

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

PID @ Breathing space = 0.0ppm

Project Data:

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

Date: 7/13/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-7-A-1
Measurement Point: TOR
Constructed Well Depth (ft): 20.0
Measured Well Depth (ft): 19.84
Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (in³)⁽²⁾: 1.65
 Initial Depth to Water (ft): 9.69

[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

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 T. Bohlen SUPERVISOR Richter
 DATE OF SAMPLE COLLECTION 6/26/20 - 7/10/20

[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-	MW-6-1	598.23	18.81	5.45	592.79	2.2	/	1.5	11.81	15.5	4.033	1107	VOL + MNA
MW-6-2-	MW-6-2	609.33	26.11	6.22	603.11	3.2	/	1.5	-	13.5	4.098	1354	
MW-6-F-8-	MW-6-F-8	612.26	14.38	7.47	604.79	1.1	/	1.0	11.61	17.9	12.6	1237	
MW-8-1-	MW-8-1	615.11	20.15	5.16	609.95	2.4	/	0.4	7.1	16.1	5.7	1037	
MW-8-2-	MW-8-2	615.14	22.71	7.53	607.61	2.5	/	0.9	7.42	19.0	2.029	1416	
MW-8-3-	MW-8-3	615.06	22.02	8.20	606.86	2.3	/	2.3	6.95	20.4	7.9	1215	
MW-8-4-	MW-8-4	613.01	21.43	8.79	604.22	2.1	/	0.7	7.56	17.3	13.16	1006	
MW-8-003-B-	MW-8-003-B	610.94	14.33	4.79	606.15	1.6	/	0.7	7.54	20.4 16.4	16.4	850	↓

Additional Comments:

Copies to:

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

PID @ TOR = 0.0 ppm

PID @ breathing space = 0.0 ppm

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: 6/29/20
 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-6-1
 Measurement Point: TOR
 Constructed Well Depth (ft): 17
 Measured Well Depth (ft): 18.81
 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⁾: 2.17
 Initial Depth to Water (ft): 5.45

Time	Pumping Rate (ml/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Note 1 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⁾
1005		5.90		16.41	15.8	3.977	-94.8	0.74	64.32	0	*
1032		5.99		12.79	15.1	4.066	-92.3	-0.11	9.89	0.3	
1037		5.99		12.55	15.1	4.064	-94.0	-0.14	11.86	0.5	
1042		5.99		12.17	15.3	4.064	-95.2	-0.16	10.26	0.9	
1047		5.99		11.94	15.5	4.074	-95.8	-0.17	7.74	1.1	
1052		5.99		11.88	15.5	4.067	-96.4	-0.18	9.84	1.2	
1057		5.99		11.80	15.5	4.067	-96.8	-0.15	9.65	1.3	
1102		5.99		11.85	15.5	4.067	-95.2	-0.15	9.71	1.4	
1107		5.99		11.81	15.5	4.033	-88.1	-0.11	7.20	1.5	

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. $V_s = \pi(D/2)^2(5'12")(2.54)^3$
- 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 .

* - stopped pump - cleared flow through cell

Note 1 - pH meter couldn't calibrate / known high - ordered replacement from vendor for 6/30/20 sampling

WELL PURGING FIELD INFORMATION FORM

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

JOB# 56546-20

WELL# MW-6-1

10/6/20
PURGE DATE
(MM DD YY)

10/6/20
SAMPLE DATE
(MM DD YY)

10/20
WATER VOL IN CASING
(LITRES/GALLONS)

115
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 - WATERRA®	X-	PURGING OTHER (SPECIFY)
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 OTHER (SPECIFY)
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 OTHER (SPECIFY)
SAMPLING DEVICE	☒ E	C - ROPE		TEFLON/POLYPROPYLENE	X-	SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.15 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	<u>1598.23</u>	(m/ft)	GROUNDWATER ELEVATION	<u>1592.79</u>	(m/ft)
DEPTH TO WATER	<u>1545</u>	(m/ft)	WELL DEPTH	<u>1881</u>	(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 ODOUR none COLOR Clear TURBIDITY Clear
WEATHER CONDITIONS WIND SPEED 0-5 DIRECTION SW PRECIPITATION Y/N OUTLOOK N
SPECIFIC COMMENTS

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

6/29/20
DATE

Thomas Bohlen
PRINT

Thomas Bohlen
SIGNATURE

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

AID @ breathing space = 0.0ppm

Project Data:

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

Date: 6/26/20
Personnel: T. Bahlen

Monitoring Well Data:

Well No.: MW-6-2
Measurement Point: TOR
Constructed Well Depth (ft): 29.16
Measured Well Depth (ft): 26.11
Depth of Sediment (ft): _____

Screen Length (ft): 14.6 - 26.6 = 10

Depth to Pump Intake (ft)⁽¹⁾: 19

Well Diameter, D (in): 2

Well Screen Volume, V_s (ml)⁽²⁾: 3.24

Initial Depth to Water (ft): 6.22

[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 ppm

AID @ breathing space = 0.0 ppm

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: 6/29/20
 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-6-F-8
 Measurement Point: TOR
 Constructed Well Depth (ft): 15.4
 Measured Well Depth (ft): 14.38
 Depth of Sediment (ft):

Screen Length (ft): 8 - 15.4 = 7.4
 Depth to Pump Intake (ft)⁽¹⁾: 10
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (ft³)⁽²⁾: 1.13
 Initial Depth to Water (ft): 7.47

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Note	pH	Temperature °C	Conductivity (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1210		7.51			13.08	19.0	12.451	128.7	1.13	2.08	0	
1215		7.53			11.18	17.8	12.466	99.4	0.23	2.21	0.2	
1220		7.53			10.95	17.9	12.476	98.0	0.14	2.15	0.3	
1227		7.53			11.23	17.9	12.565	76.4	0.00	2.53	0.6	
1232		7.53			11.52	17.9	12.636	76.0	-0.02	3.58	0.8	
1237		7.53			11.61	17.9	12.633	75.7	-0.02	3.52	1.0	

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 .

Note 1 - pH meter couldn't calibrate / known high.
 ordered replacement for 6/30/20 sampling

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

AID @ Breathing space = 0.0 ppm

Project Data:

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

Date: 7/10/20
Personnel: T. B. H. L.

Monitoring Well Data:

Well No.: MW-8-1
Measurement Point: TOR
Constructed Well Depth (ft): 20.5
Measured Well Depth (ft): 20.15
Depth of Sediment (ft):

Screen Length (ft): 7
Depth to Pump Intake (ft)⁽¹⁾: 17
Well Diameter, D (in): 2
Well Screen Volume, V_{sc} (mL)⁽²⁾: 2.44
Initial Depth to Water (ft): 5.16

[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 .

organic odor

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

PID @ TOR = 0.3 ppm

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: 7/10/20
 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-8-2
 Measurement Point: TOR
 Constructed Well Depth (ft): 23.0
 Measured Well Depth (ft): 22.71
 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⁾: 2.47
 Initial Depth to Water (ft): 7.53

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⁾
1111		8.09		7.57	19.4	2.060	-19.6	1.61	0.95	0	
1116		8.64		7.52	19.2	2.003	-28.2	0.60	1.02	0.1	
1121		8.72		7.50	19.6	1.998	-29.3	0.59	1.14	0.2	
1126		8.98		7.49	19.0	2.001	-42.5	0.49	0.97	0.3	
1131		9.18		7.48	19.1	2.005	-92.7	0.45	1.08	0.4	
1136		9.29		7.47	19.1	2.011	-116.9	0.43	1.04	0.5	
1141		9.41		7.45	19.1	2.016	-134.7	0.41	1.15	0.7	
1146		9.51		7.42	19.0	2.029	-147.2	0.39	1.03	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 .

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>CMCH Lockport Annual 1</u> <u>BCP Site GW Sampling</u>				WELL# <u>MW-8-2</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>10/7/10</u>	SAMPLE DATE (MM DD YY) <u>10/7/10</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>2.5</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>0.9</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 C - BLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>				X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>				X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON C - ROPE	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	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>161.514</u> (m/ft)	GROUNDWATER ELEVATION <u>60.761</u> (m/ft)		WELL DEPTH <u>22.91</u> (m/ft)	
DEPTH TO WATER <u>7.53</u> (m/ft)				
pH <u> </u> (std)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)	DO <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> ODOUR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>clear</u>				
WEATHER CONDITIONS WIND SPEED <u>W</u> DIRECTION <u>0-5</u> PRECIPITATION Y/N OUTLOOK <u>N</u>				
SPECIFIC COMMENTS _____				

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
<u>7/10/10</u> DATE		<u>Thomas Bohlen</u> PRINT		<u>Thomas Bohlen</u> SIGNATURE

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

PID @ TOR = 0.0 ppm

AID @ Breathing space = 0.0 ppm

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: 7/19/20 / 7/10/20
 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-8-3
 Measurement Point: TOR
 Constructed Well Depth (ft): 22.4
 Measured Well Depth (ft): 22.03
 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⁾: 2.25
 Initial Depth to Water (ft): 8.20

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⁾
7/19/20 1143		8.88		7.03	19.9	8.499	-100.2	1.03	210.65	1.0	
1148		13.09		7.24	19.6	2.400	-113.0	1.52	617.26	0.8	
1153		16.25		7.20	19.9	2.237	-87.3	2.68	878.88	1.3	
1158		17.85		6.98	19.7	5.856	-101.2	0.95	291.84	2.1	
1201		18.06	Dry	7.00	19.7	7.909	-101.3	1.12	127.67	2.3	
7/10/20 1215		8.21		6.95	20.4	7.903	-31.0	2.36	11.60		

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 .

- bubbles in cell, appeared clear / slightly cloudy

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-8-3</u>
WELL PURGING INFORMATION				
<u>07101210</u> PURGE DATE (MM DD YY)	<u>07101210</u> SAMPLE DATE (MM DD YY)	<u>1123</u> WATER VOL. IN CASING (LITRES/GALLONS)	<u>1123</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
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	D - GAS LIFT PUMP	G - BAILER
SAMPLING DEVICE	<u>B</u>	B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRAD
X- _____ PURGING OTHER (SPECIFY)				
PURGING DEVICE	<u>E</u>	C - BLADDER PUMP	F - DIPPER BOTTLE	
X- _____ SAMPLING OTHER (SPECIFY)				
PURGING DEVICE	<u>E</u>	A - TEFLON	D - PVC	
SAMPLING DEVICE	<u>E</u>	B - STAINLESS STEEL	E - POLYETHYLENE	
X- _____ PURGING OTHER (SPECIFY)				
PURGING DEVICE	<u>E</u>	C - POLYPROPYLENE		
X- _____ SAMPLING OTHER (SPECIFY)				
PURGING DEVICE	<u>E</u>	A - TEFLON	D - POLYPROPYLENE	F - SILICONE
SAMPLING DEVICE	<u>E</u>	B - TYGON	E - POLYETHYLENE	G - COMBINATION
X- _____ PURGING OTHER (SPECIFY)				
X- _____ SAMPLING OTHER (SPECIFY)				
FILTERING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>1615016</u>	(m/ft)	GROUNDWATER ELEVATION	<u>1606816</u> (m/ft)
DEPTH TO WATER	<u>1820</u>	(m/ft)	WELL DEPTH	<u>12203</u> (m/ft)
pH	<u> </u> (std)	TURBIDITY	<u> </u> (ntu)	CONDUCTIVITY
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
<u> </u> (std)	<u> </u> (ntu)	<u> </u> (µm/cm)	<u> </u> (mV)	AT 25°C
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOUR <u>none</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>W</u> PRECIPITATION Y/N OUTLOOK <u>n</u> SPECIFIC COMMENTS <u>Interior well</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>7/10/20</u> DATE <u>Thomas Bohlen</u> PRINT <u>Thomas Bohlen</u> SIGNATURE				

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

AID @ breathing space = 0.0ppm

Project Data:

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

Date: 7/2/20
Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-8-4

Measurement Point: TOR

Constructed Well Depth (ft): 21.8

Measured Well Depth (ft): 21.43

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 (m³)⁽²⁾: 2.06
 Initial Depth to Water (ft): 8.79

[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, $V_s = \pi \cdot (D/2)^2 \cdot (5'12") \cdot (2.54)^3$
- (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>GMCH Lockport Annual BCP Site GW Sampling</u>					WELL# <u>MW-8-4</u>
WELL PURGING INFORMATION					
<u>070220</u> PURGE DATE (MM DD YY)	<u>070220</u> SAMPLE DATE (MM DD YY)	<u>101</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>107</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)		
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	D - GAS LIFT PUMP	G - BAILER	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE	<u>B</u> B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE	<u>E</u> C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ PURGING OTHER (SPECIFY)		
SAMPLING DEVICE	<u>E</u> A - TEFLON	D - PVC	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE	<u>E</u> B - STAINLESS STEEL	E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)		
SAMPLING DEVICE	<u>E</u> C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)			
PURGING DEVICE	<u>E</u> A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE	<u>E</u> B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)	
SAMPLING DEVICE	<u>E</u> C - ROPE	X- _____ (SPECIFY)			
FILTERING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION	<u>16113011</u> (m/ft)	GROUNDWATER ELEVATION	<u>1604022</u> (m/ft)		
DEPTH TO WATER	<u>1879</u> (m/ft)	WELL DEPTH	<u>2143</u> (m/ft)		
pH	TURBIDITY	CONDUCTIVITY	ORP	DO	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)
<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	<u>Good</u>	ODOR	<u>None</u>	COLOR	<u>Clear</u>
WEATHER CONDITIONS	WIND SPEED <u>0-10</u>	DIRECTION	<u>SW</u>	PRECIPITATION Y/N	<u>Clear</u>
SPECIFIC COMMENTS					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS <u>7/21/20</u> <u>Thomas Bohlen</u> <u>Thomas Bohlen</u> DATE PRINT SIGNATURE					

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

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-8-003</u> B
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>01/10/20</u>	SAMPLE DATE (MM DD YY) <u>01/10/20</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>116</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>106</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	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- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.15 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>16110.94</u> (m/ft)	GROUNDWATER ELEVATION <u>1606.15</u> (m/ft)		WELL DEPTH <u>114.33</u> (m/ft)	
DEPTH TO WATER <u>479</u> (m/ft)				
pH <u> </u> (std)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)	DO <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> ODOOR <u>None</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>W</u> PRECIPITATION <u>1/4</u> OUTLOOK <u>7</u> SPECIFIC COMMENTS _____ _____ _____ _____ _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>7/10/20</u> <u>Thomas Bohlen</u> <u>Thomas Bohlen</u> DATE PRINT SIGNATURE				

FAC 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 T. Bohlen SUPERVISOR Richert
 DATE OF SAMPLE COLLECTION 6/6/20 - 7/13/20

[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-	MW-9-12	614.92	15.56	6.89	608.03	1.4		0.5	7.47	14.8	3.8	11/9	VOC + MNA + PAM
MW-9-101-A-	MW-9-101-A	613.53	12.21	4.81	608.72	1.2		0.4	6.87	21.8	12.9	10/2	↓
BLDG-10-MW-1-	BLDG-10-MW-1	615.05	15.59	5.76	609.29	1.6		0.3	7.12	20.2	2.8	14/6	VOC + MNA
MW-10-2	MW-10-2	611.26	16.09 22.09	2.96	608.30	2.1		1.4	7.37	18.7	8.7	14/2	
MW-10-3	MW-10-3	610.40	15.41	3.22	594.99	2.0		0.5	7.62	17.4	1.72	12/7	
TK-6-	TK-6	621.69	13.30	10.23	611.46	2.0		1.0	7.27	20.4	3.6	10/9	MS/MSD ↓

Additional Comments: _____

Copies to: _____

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

$P_{ID@ \text{breathing space}} = 0.0ppm$

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 7/13/20
Ref. No.: 56546.20 T. 4 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-9-12
Measurement Point: TOR
Constructed Well Depth (ft): 15.43
Measured Well Depth (ft): 15.56
Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 21
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (ft³)⁽²⁾: 1.41
 Initial Depth to Water (ft): 6.89

[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 Annual BCP Site GW Sampling

JOB# 56546-20

WELL# MW-9-12

07/13/20

PURGE DATE
(MM DD YY)

07/13/20

SAMPLE DATE
(MM DD YY)

114

WATER VOL IN CASING
(LITRES/GALLONS)

10.5

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 - WATERAID 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) TEFLON/POLYPROPYLENE SAMPLING OTHER (SPECIFY)

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

FIELD MEASUREMENTS

WELL ELEVATION 6114.92 (m/ft)

GROUNDWATER ELEVATION 6108.03 (m/ft)

DEPTH TO WATER 6189 (m/ft)

WELL DEPTH 11556 (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 none COLOR Clear TURBIDITY Clear
WEATHER CONDITIONS WIND SPEED 0-5 DIRECTION SW PRECIPITATION Y/N OUTLOOK no
SPECIFIC COMMENTS interior well

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

7/13/20
DATE

Thomas Bohler
PRINT

Thomas Bohler
SIGNATURE

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

PID@TOR = 0.0ppm PID@breathing space = 0.0ppm

PID @ breathing space = 0.0 ppm

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 7/13/20
Ref. No.: 56546.20 T. 4 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-9-101-A

Measurement Point: TOR

Constructed Well Depth (ft): 12.54

Measured Well Depth (ft): 12.21

Depth of Sediment (ft): _____

Screen Length (ft): 5
Depth to Pump Intake (ft)⁽¹⁾: ~8
Well Diameter, D (in): 2
Well Screen Volume, V_{screen} (ml)⁽²⁾: 1.21
Initial Depth to Water (ft): 4.81

[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				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-9-101-A</u>
WELL PURGING INFORMATION				
<u>10/7/13</u> PURGE DATE (MM DD YY)	<u>10/7/13</u> SAMPLE DATE (MM DD YY)	<u>112</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>0.4</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	D - GAS LIFT PUMP	C - BAILER	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE ☒ B	B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRAID	X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE ☒ E	C - BLADDER PUMP	F - DIPPER BOTTLE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE ☒ E	A - TEFLON	D - PVC	X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE ☒ E	B - STAINLESS STEEL	E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE ☒ E	C - POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE ☒ E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE ☒ E	B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ SAMPLING OTHER (SPECIFY)
SAMPLING DEVICE ☒ E	C - ROPE	X- _____ (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>6113.53</u> (m/ft)	GROUNDWATER ELEVATION <u>6018.72</u> (m/ft)		WELL DEPTH <u>112.21</u> (m/ft)	
DEPTH TO WATER <u>7.18</u> (m/ft)				
pH <u>7.1</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>1.0</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>1.0</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>1.0</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>1.0</u> (mg/L)
pH <u>7.1</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>1.0</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOUR <u>None</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____ SPECIFIC COMMENTS _____ _____ _____ _____ _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GSP PROTOCOLS <u>7/13/20</u> <u>Thomas Bohlen</u> <u>Thomas Bohlen</u> DATE PRINT SIGNATURE				

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

$P_{ID@ \text{breathing space}} = 0.0 ppm$

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 7/13/20
Ref. No.: 56546-20 T. 4 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: <u>BLAG-10-MW-1</u>	Screen Length (ft): <u>5</u>
Measurement Point: <u>TOR</u>	Depth to Pump Intake (ft) ⁽¹⁾ : <u>13</u>
Constructed Well Depth (ft): <u>16.0</u>	Well Diameter, D (in): <u>2</u>
Measured Well Depth (ft): <u>15.59</u>	Well Screen Volume, V _s (mL) ⁽²⁾ : <u>1.60</u>
Depth of Sediment (ft): _____	Initial Depth to Water (ft): <u>5.76</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

JOB# 56546-20

SITE/PROJECT NAME: 6MCH Lockport Annual BCP Site GW Sampling

WELL# B2A6-10 MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY) 07/13/20

SAMPLE DATE (MM DD YY) 07/13/20

WATER VOL IN CASING (LITRES/GALLONS) 116

ACTUAL VOLUME PURGED (LITRES/GALLONS) 103

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 B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAID PURGING OTHER (SPECIFY)

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

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

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

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

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

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

FIELD MEASUREMENTS

WELL ELEVATION 16115.05 (m/ft) GROUNDWATER ELEVATION 1609.29 (m/ft)

DEPTH TO WATER 576 (m/ft) WELL DEPTH 11559 (m/ft)

pH (std) **TURBIDITY** (ntu) **CONDUCTIVITY** (um/cm) **ORP** (mV) **DO** (mg/L) **SAMPLE TEMPERATURE** (°C)

(std) (ntu) (um/cm) (mV) (mg/L) (°C)

(std) (ntu) (um/cm) (mV) (mg/L) (°C)

(std) (ntu) (um/cm) (mV) (mg/L) (°C)

(std) (ntu) (um/cm) (mV) (mg/L) (°C)

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR Solvent COLOR Clear TURBIDITY Clear

WEATHER CONDITIONS WIND SPEED 0-5 DIRECTION SW PRECIPITATION N OUTLOOK no

SPECIFIC COMMENTS Interior well

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

DATE 7/13/20 PRINT Thomas Bohler SIGNATURE Thomas Bohler

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

PID@TOR = 0.2 ppm PID@breathing space = 0.0 ppm

PID@ breathing space = 0.0 ppm

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 6/6/20
Ref. No.: 56546.20 T. 4 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-10-2
Measurement Point: TOP
Constructed Well Depth (ft): 16.80
Measured Well Depth (ft): 15.4 + 16.09
Depth of Sediment (ft):

Screen Length (ft): $9.8 - 16.8 = 7$
 Depth to Pump Intake (ft)⁽¹⁾: -14
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.03
 Initial Depth to Water (ft): 2.96

[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 .

PID@TOR = 0.0ppm PID@Breathing space = 0.0ppm

At @ breathing space = 0.0 ppm

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 6/6/20
Ref. No.: 56546.20 T.4 Personnel: T. Bohlen

Monitoring Well Data:

Well No.: MW-10-3
Measurement Point: TOR
Constructed Well Depth (ft): 15.80
Measured Well Depth (ft): 15.41
Depth of Sediment (ft):

Screen Length (ft): $8.8 - 15.8 = 7$
 Depth to Pump Intake (ft)⁽¹⁾: $\sim 13'$
 Well Diameter, D (in): 2
 Well-Screen Volume, V_s (ml)⁽²⁾: 1.99
 Initial Depth to Water (ft): 3.22

[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				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>060620</u> PURGE DATE (MM DD YY)	<u>060620</u> SAMPLE DATE (MM DD YY)	<u>1120</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>1105</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 D - GAS LIFT PUMP G - BAILER ☐ B PERISTALTIC PUMP E - PURGE PUMP H - WATERBATH ☐ C BLADDER PUMP F - DIPPER BOTTLE			
SAMPLING DEVICE	☒ B A - TEFLON D - PVC ☐ B STAINLESS STEEL E - POLYETHYLENE ☒ E C - POLYPROPYLENE			
PURGING DEVICE	☒ E A - TEFLON D - POLYPROPYLENE F - SILICONE ☐ B TYGON E - POLYETHYLENE G - COMBINATION ☒ E C - ROPE X- _____ (SPECIFY)			
SAMPLING DEVICE	☒ E A - TEFLON D - POLYPROPYLENE F - SILICONE ☐ B TYGON E - POLYETHYLENE G - COMBINATION ☒ E C - ROPE X- _____ (SPECIFY)			
FILTERING DEVICES 0.15 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>1610.40</u> (m/ft)		GROUNDWATER ELEVATION	<u>594.99</u> (m/ft)
DEPTH TO WATER	<u>3.22</u> (m/ft)		WELL DEPTH	<u>115.41</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>1.5</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>1.5</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>1.5</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>1.5</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>1.5</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>None</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u> WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>SW</u> PRECIPITATION <u>Y/N</u> OUTLOOK <u>N</u> SPECIFIC COMMENTS _____ _____ _____ _____ _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>6/6/20</u> <u>Thomas Bohlen</u> <u>Thomas Bohlen</u> DATE PRINT SIGNATURE				

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

FID@TOR = 0.0 ppm

PID @ breathing space = 0.0 ppm

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 6/6/20
Ref. No.: 56546-10 T. 4 Personnel: T. Bahler

Monitoring Well Data:

Well No.: TK-6
Measurement Point: TOR
Constructed Well Depth (ft): _____
Measured Well Depth (ft): 13.30
Depth of Sediment (ft): _____

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in): 4
 Well Screen Volume, V_s (mL)⁽²⁾: 2.00
 Initial Depth to Water (ft): 10.23

[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: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				JOB# <u>56546-20</u>
WELL PURGING INFORMATION				WELL# <u>TK-6</u>
PURGE DATE (MM DD YY) <u>06/06/20</u>	SAMPLE DATE (MM DD YY) <u>06/06/20</u>	WATER VOL. IN CASING (LITRES/GALLONS) <u>100</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>110</u>	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENTDEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENTDEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATERRA®	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>B</u>	X- _____ SAMPLING OTHER (SPECIFY)			
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE	D - PVC E - POLYETHYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>	X- _____ SAMPLING OTHER (SPECIFY)			
PURGING DEVICE <u>E</u>	A - TEFLON B - TYGON C - ROPE	D - POLYPROPYLENE E - POLYETHYLENE X- _____ (SPECIFY)	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	X- _____ SAMPLING OTHER (SPECIFY)			
FILTERING DEVICES 0.45 <u> </u> A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1621.69</u> (m/ft)	GROUNDWATER ELEVATION <u>1611.46</u> (m/ft)		WELL DEPTH <u>113.30</u> (m/ft)	
DEPTH TO WATER <u>110.23</u> (m/ft)	pH <u> </u> (std)	TURBIDITY <u> </u> (ntu)	CONDUCTIVITY <u> </u> (µm/cm) AT 25°C	ORP <u> </u> (mV)
DO <u> </u> (mg/L)	SAMPLE TEMPERATURE <u> </u> (°C)			
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOR <u>none</u> COLOR <u>Clear</u> TURBIDITY <u>Clear</u>				
WEATHER CONDITIONS WIND SPEED <u>0-5</u> DIRECTION <u>SW</u> PRECIPITATION 1/N OUTLOOK <u>n</u>				
SPECIFIC COMMENTS				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CAL PROTOCOLS				
<u>6/6/20</u> DATE		<u>Thomas Bohlen</u> SIGNATURE		

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

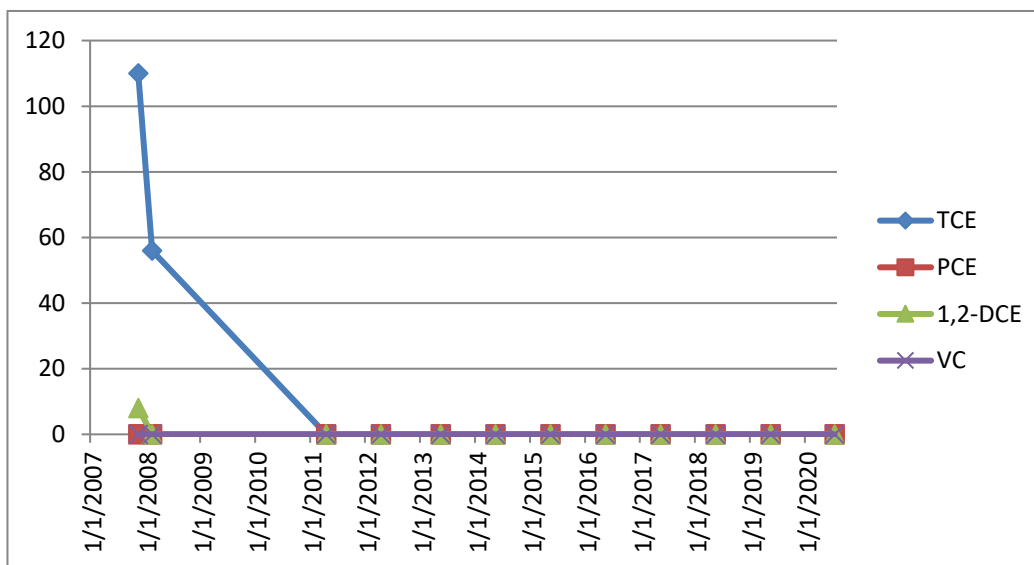
Date	TCE	PCE	1,2-DCE	VC
11/30/2007	110	<	8	<
2/20/2008	56	<	<	<
4/27/2011	<	<	<	<
4/27/2012	<	<	<	<
5/6/2013	<	<	<	<
5/27/2014	<	<	<	<
5/11/2015	<	<	<	<
5/10/2016	<	<	<	<
5/4/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	<	<	<	<
7/2/2020	<	<	<	<

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

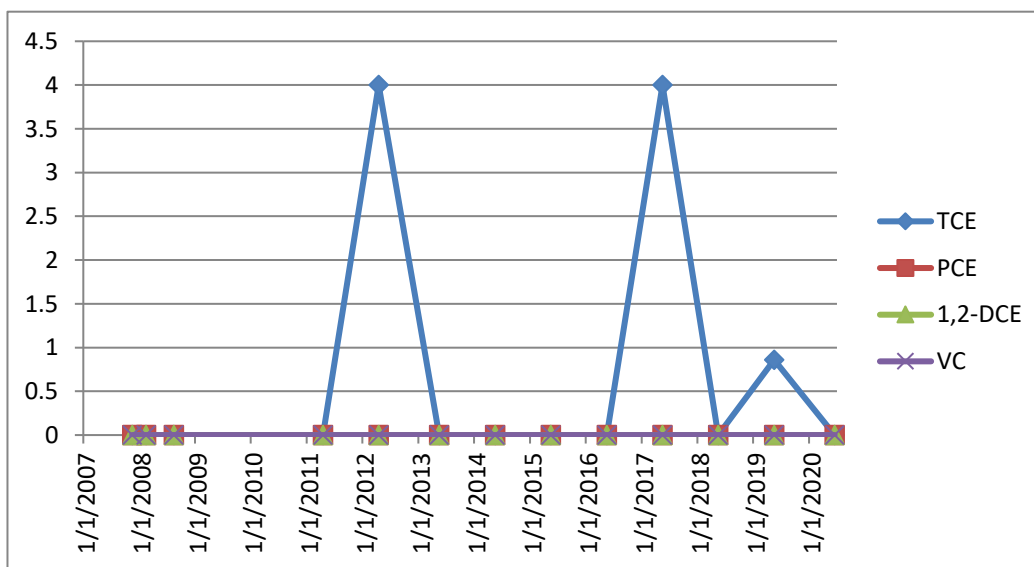
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
8/8/2008	<	<	<	<
4/27/2011	<	<	<	<
4/26/2012	4	<	<	<
5/6/2013	<	<	<	<
5/23/2014	<	<	<	<
5/12/2015	<	<	<	<
5/10/2016	<	<	<	<
5/10/2017	4	<	<	<
5/17/2018	<	<	<	<
5/23/2019	0.86	<	<	<
6/30/2020	<	<	<	<

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

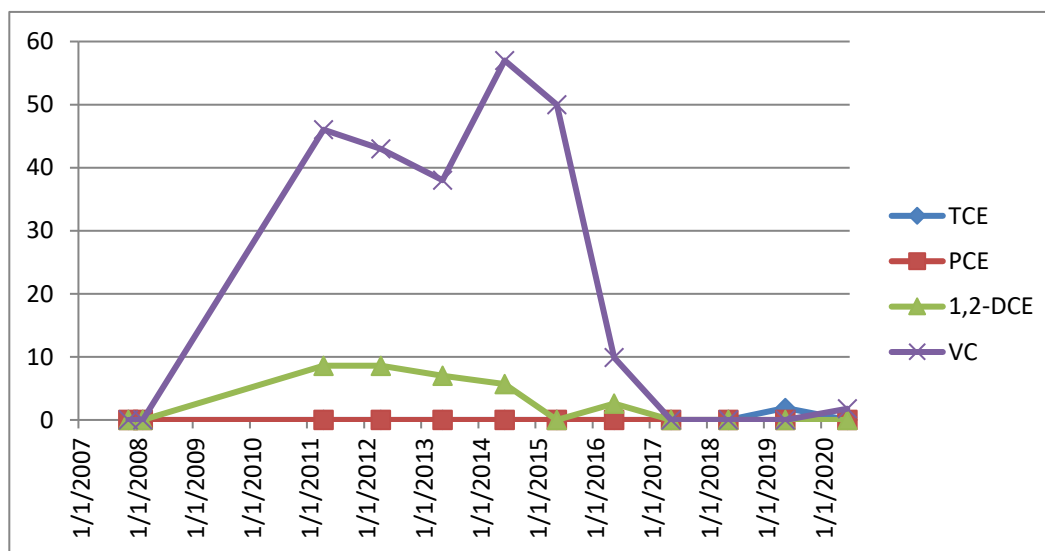
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
4/27/2011	<	<	8.6	46
4/27/2012	<	<	8.6	43
5/6/2013	<	<	7	38
6/3/2014	<	<	5.7	57
5/11/2015	<	<	<	50
5/10/2016	<	<	2.6	9.9
5/3/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	1.9	<	<	<
6/30/2020	<	<	<	1.8

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

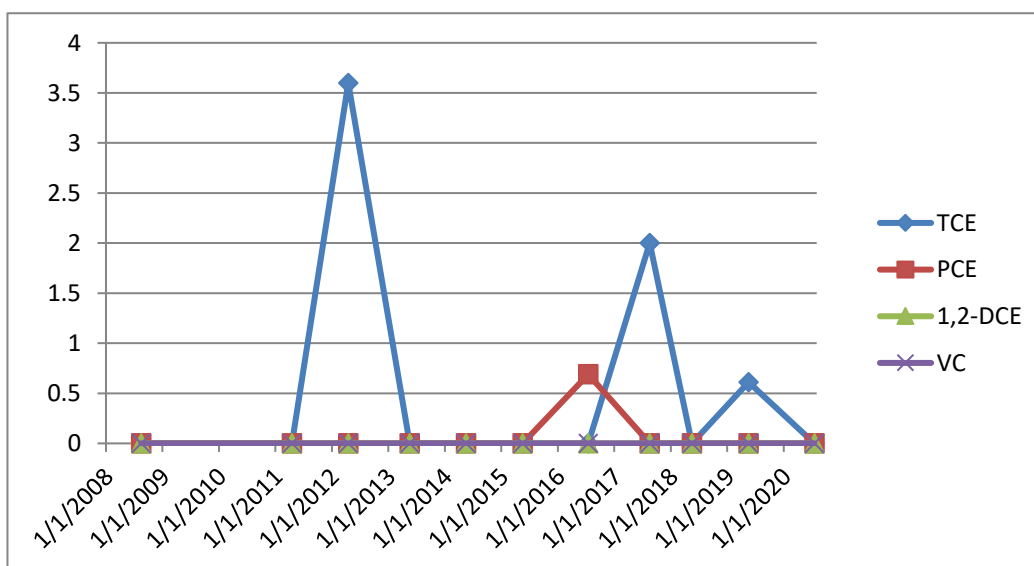
Date	TCE	PCE	1,2-DCE	VC
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/27/2012	3.6	<	<	<
5/7/2013	<	<	<	<
5/23/2014	<	<	<	<
5/11/2015	<	<	<	<
7/29/2016	<	0.69	<	<
8/15/2017	2	<	<	<
5/17/2018	<	<	<	<
5/24/2019	0.61	<	<	<
7/1/2020	<	<	<	<

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

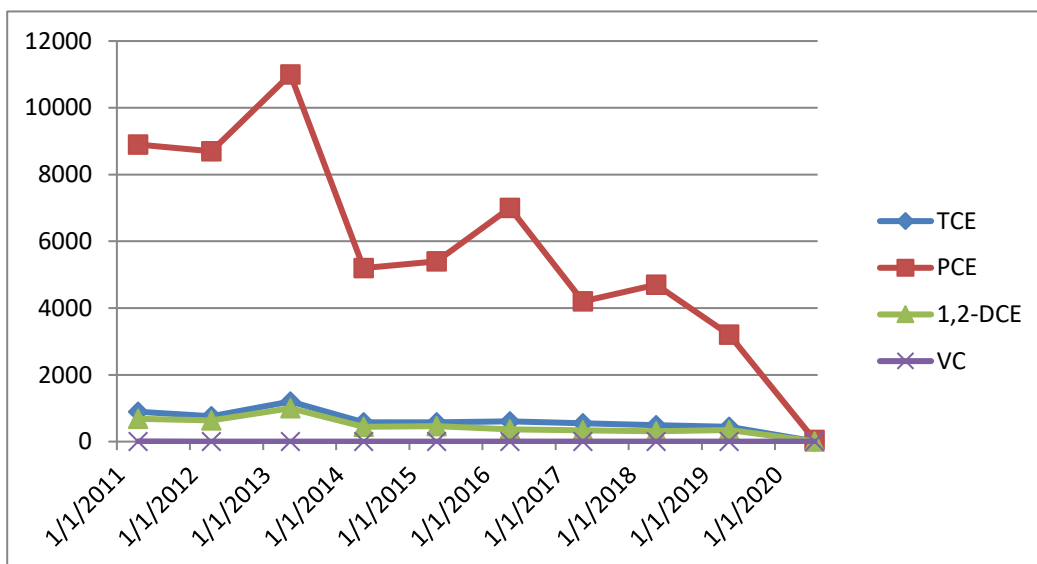
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	890	8900	687	5.8
4/30/2012	760	8700	640	<
5/7/2013	1200	11000	1000	<
5/27/2014	580	5200	440	<
5/18/2015	580	5400	460	<
5/11/2016	610	7000	370	<
5/9/2017	550	4200	340	<
5/30/2018	490	4700	310	<
5/28/2019	440	3200	350	<
7/9/2020	7.4	48	5.6	<

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

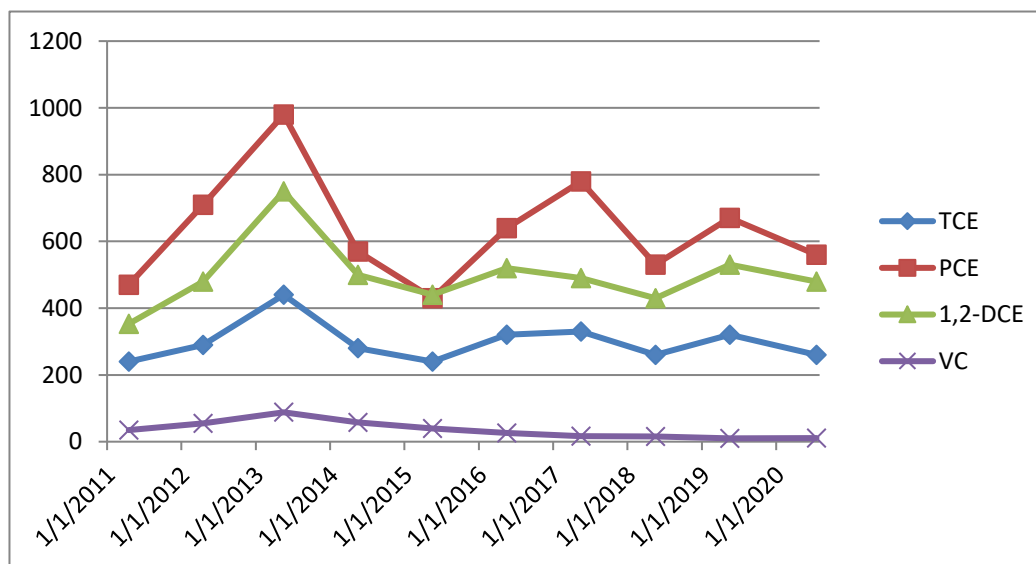
Date	TCE	PCE	1,2-DCE	VC
4/27/2011	240	470	353	35
4/30/2012	290	710	480	55
5/7/2013	440	980	750	88
5/28/2014	280	570	500	58
5/15/2015	240	430	440	40
5/11/2016	320	640	520	26
5/4/2017	330	780	490	17
5/30/2018	260	530	430	16
5/28/2019	320	670	530	10
7/7/2020	260	560	480	11

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-7-7 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
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
5/12/2016	7,500	84,000	26,000	4,900
5/9/2017	13,000	51,000	61,000	4,900
5/18/2018	24,000	23,000	26,000	8,100
5/28/2019	19,000	54,000	41,000	6,200
7/7/2020	6,800	68,000	54,000	9,600

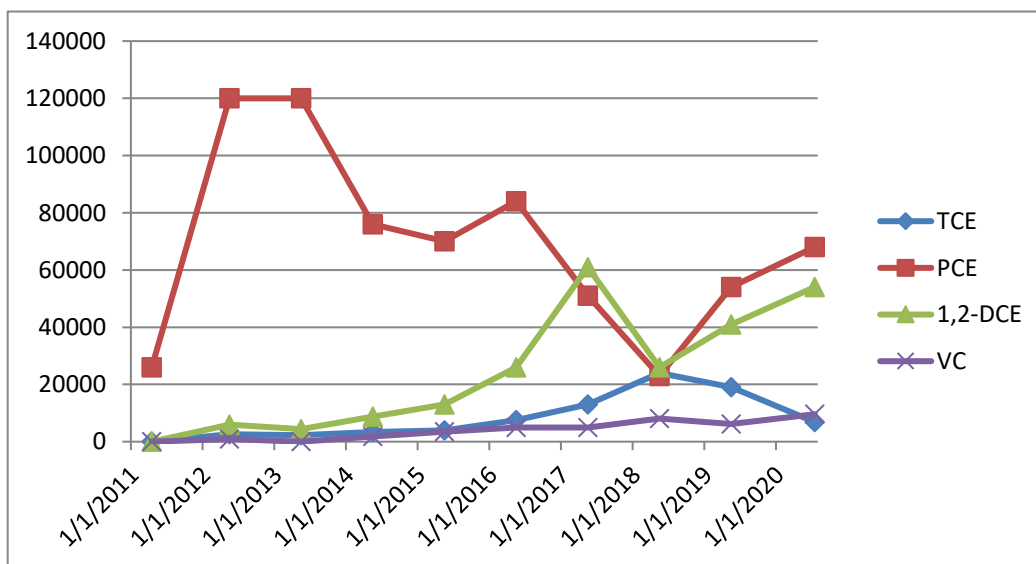
Notes:

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 repective duplicate sample.



MW-7-8 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

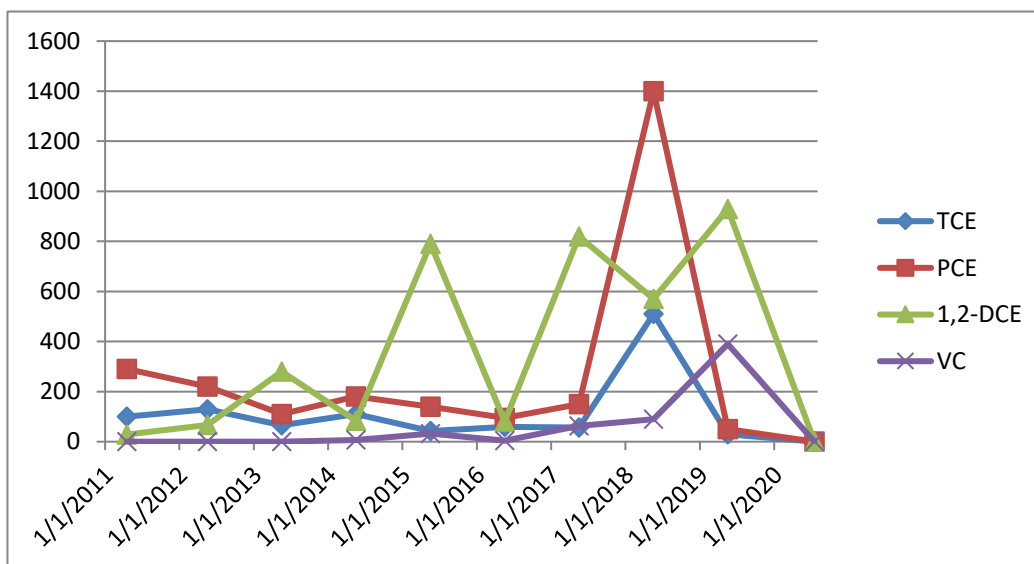
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	100	290	29	<
5/2/2012	130	220	67	<
5/8/2013	66	110	280	<
5/29/2014	110	180	84	7.1
5/18/2015	43	140	790	32
5/13/2016	59	95	81	3.6
5/9/2017	57	150	820	63
5/30/2018	510	1400	570	90
5/31/2019	30	50	930	390
7/9/2020	<	<	<	<

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

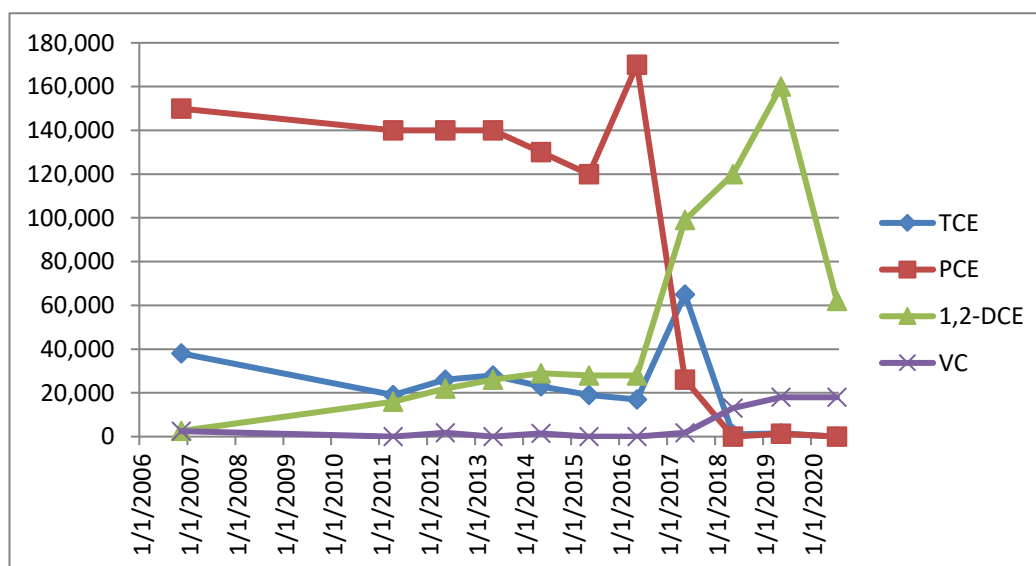
Date	TCE	PCE	1,2-DCE	VC
11/10/2006	38,000	150,000	2,600	2,500
4/28/2011	19,000	140,000	16,000	<
5/1/2012	26,000	140,000	22,000	1,800
5/8/2013	28,000	140,000	26,000	<
5/30/2014	23,000	130,000	29,000	1,500
5/15/2015	19,000	120,000	28,000	<
5/12/2016	17,000	170,000	28,000	<
5/9/2017	65,000	26,000	99,000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

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-C-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

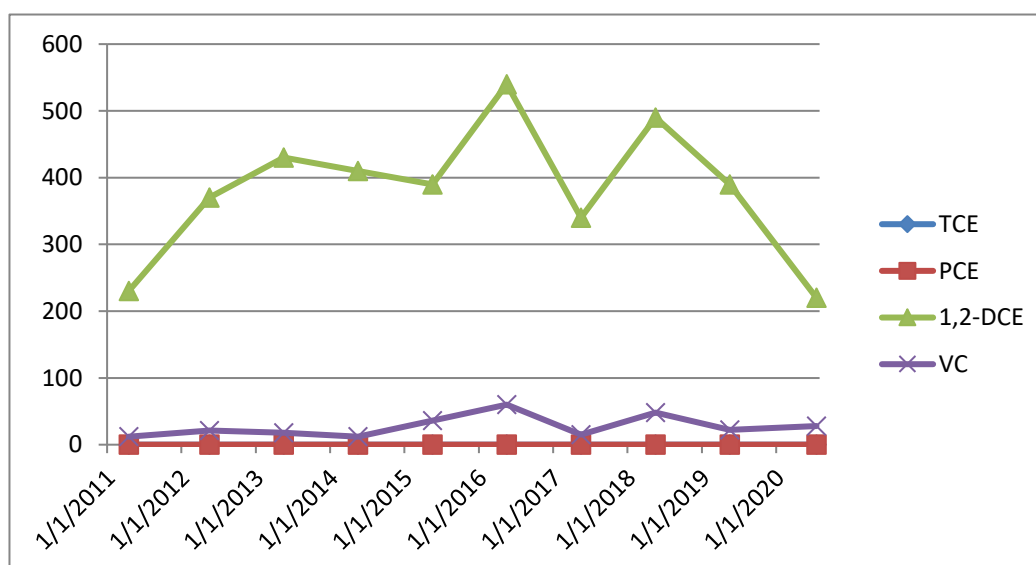
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	230	12
5/3/2012	<	<	370	21
5/7/2013	<	<	430	18
5/28/2014	<	<	410	12
5/15/2015	<	<	390	36
5/11/2016	<	<	540	60
5/4/2017	<	<	340	15
5/30/2018	<	<	490	48
5/28/2019	<	<	390	22
7/9/2020	<	<	220	28

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-P-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

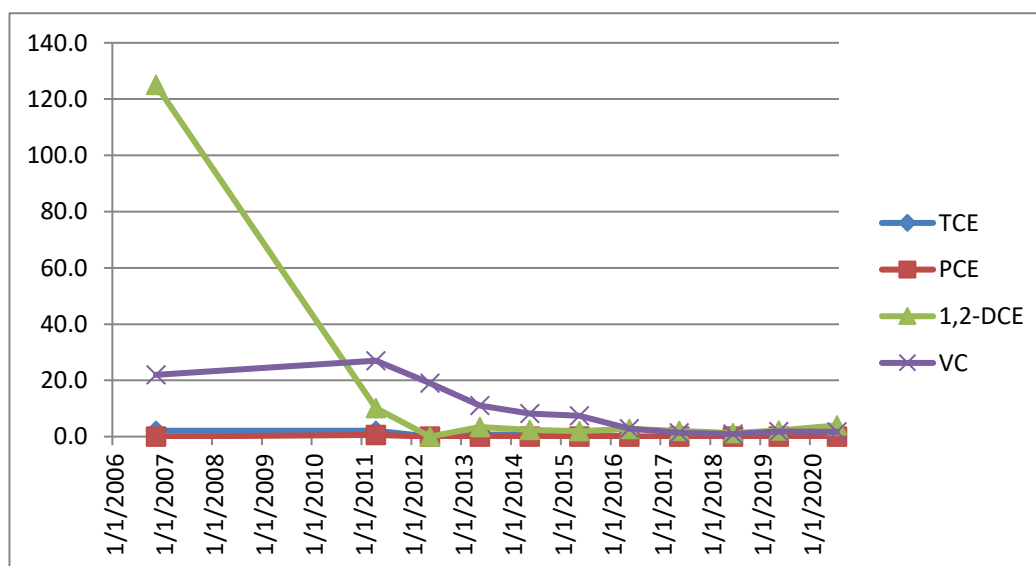
Date	TCE	PCE	1,2-DCE	VC
11/14/2006	2.1	<	125	22
4/29/2011	2	0.6	10	27
5/3/2012	<	<	<	19
5/7/2013	0.74	<	3.4	11
5/16/2014	0.78	<	2.4	8.2
5/26/2015	0.93	<	2	7.4
5/13/2016	<	<	2.7	2.9
5/5/2017	<	<	2.1	1.4
6/1/2018	<	<	1.3	0.91
5/31/2019	<	<	2.2	1.8
7/13/2020	<	<	4	1.7

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

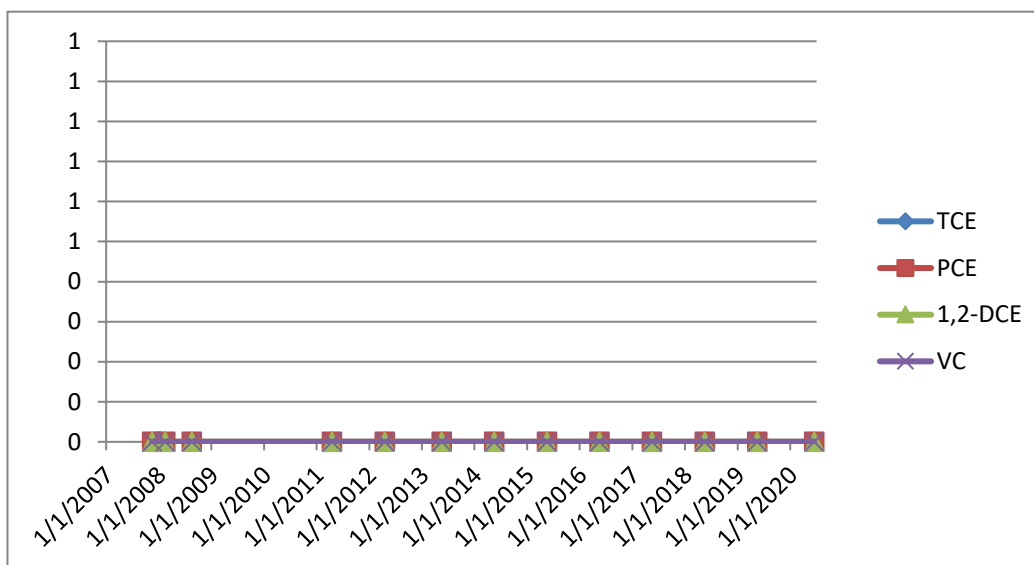
Date	TCE	PCE	1,2-DCE	VC
11/30/2007	<	<	<	<
2/20/2008	<	<	<	<
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/14/2014	<	<	<	<
5/13/2015	<	<	<	<
5/9/2016	<	<	<	<
5/3/2017	<	<	<	<
5/16/2018	<	<	<	<
5/21/2019	<	<	<	<
6/29/2020	<	<	<	<

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

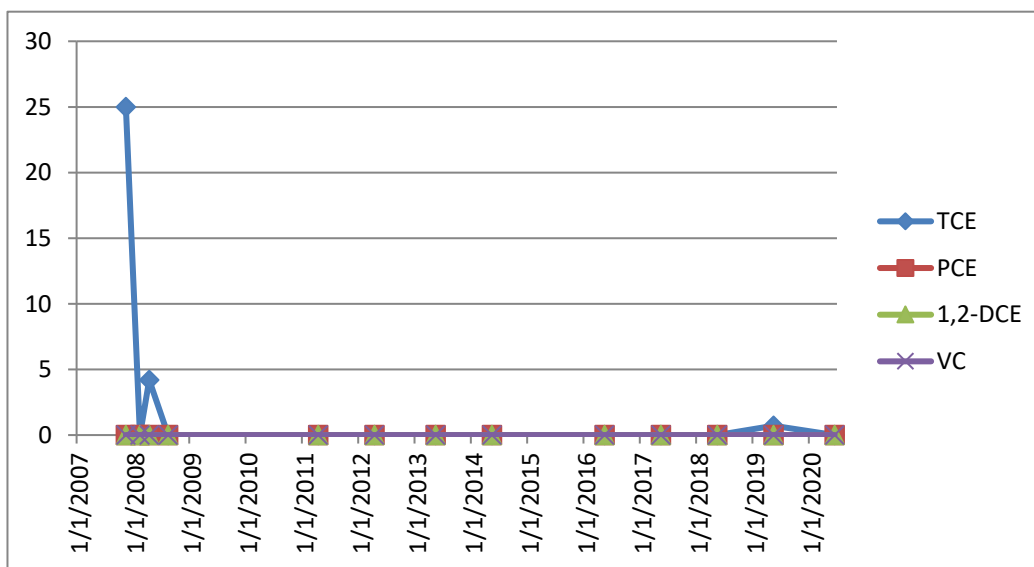
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	25	<	<	<
2/20/2008	<	<	<	<
4/15/2008	4.2	<	<	<
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/14/2014	<	<	<	<
5/9/2016	<	<	<	<
5/3/2017	<	<	<	<
5/16/2018	<	<	<	<
5/21/2019	0.7	<	<	<
6/26/2020	<	<	<	<

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

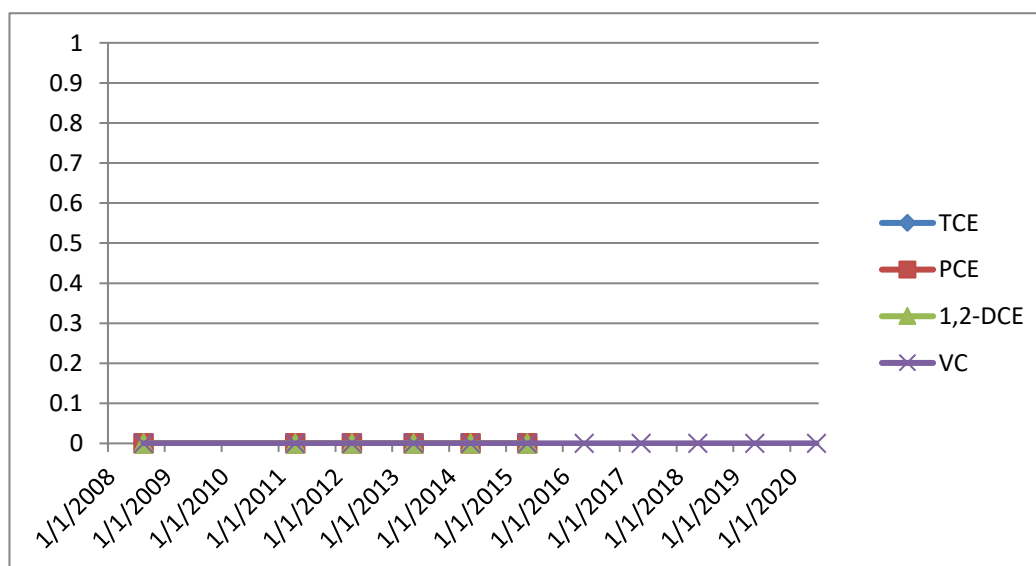
Date	TCE	PCE	1,2-DCE	VC
8/13/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/30/2014	<	<	<	<
5/14/2015	<	<	<	<
5/9/2016	<	<	<	<
5/1/2017	<	<	<	<
5/16/2018	<	<	<	<
5/14/2019	<	<	<	<
6/29/2020	<	<	<	<

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

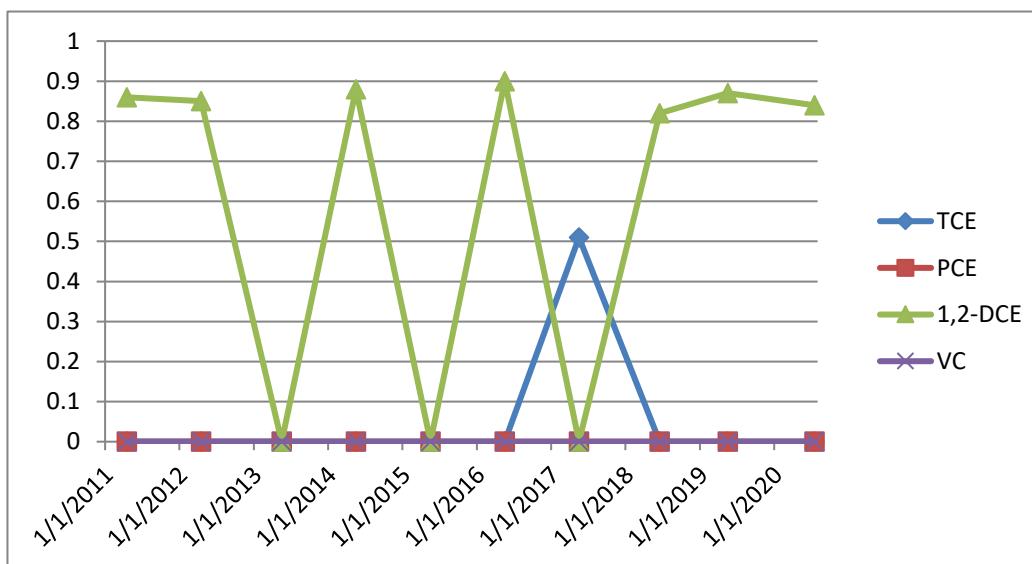
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	0.86	<
4/30/2012	<	<	0.85	<
5/13/2013	<	<	<	<
5/15/2014	<	<	0.88	<
5/22/2015	<	<	<	<
5/16/2016	<	<	0.9	<
5/2/2017	0.51	<	<	<
6/1/2018	<	<	0.82	<
5/30/2019	<	<	0.87	<
7/10/2020	<	<	0.84	<

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

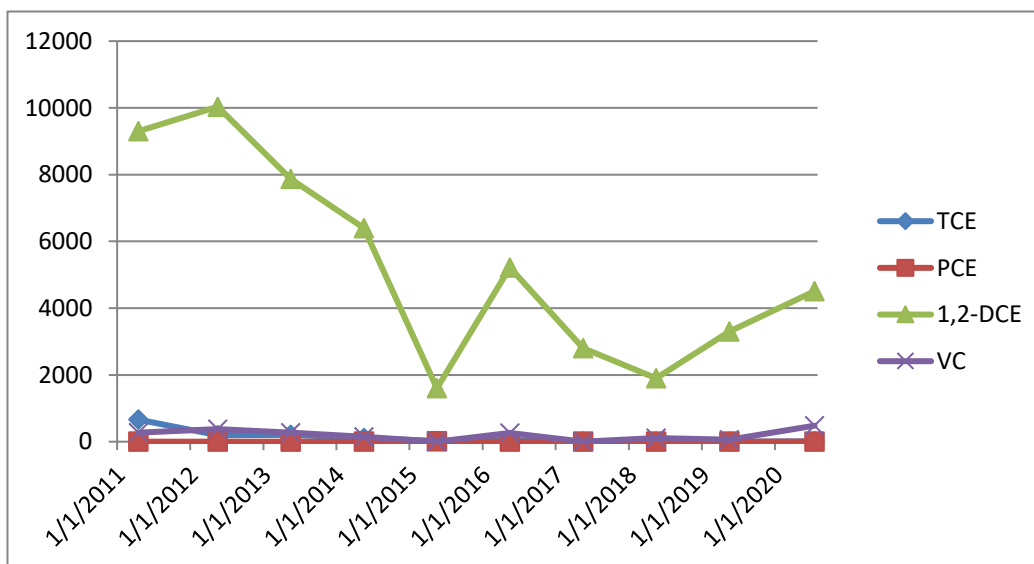
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	660	<	9,300	270
5/3/2012	190	<	10,034	380
5/13/2013	200	<	7,877	270
5/16/2014	110	<	6400	150
5/22/2015	24	10	1,600	<
5/17/2016	47	<	5,216	260
5/2/2017	<	<	2,800	<
5/10/2018	<	<	1,900	110
5/30/2019	<	<	3,300	58
7/10/2020	11	<	4,512	480

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	<	<	<	<

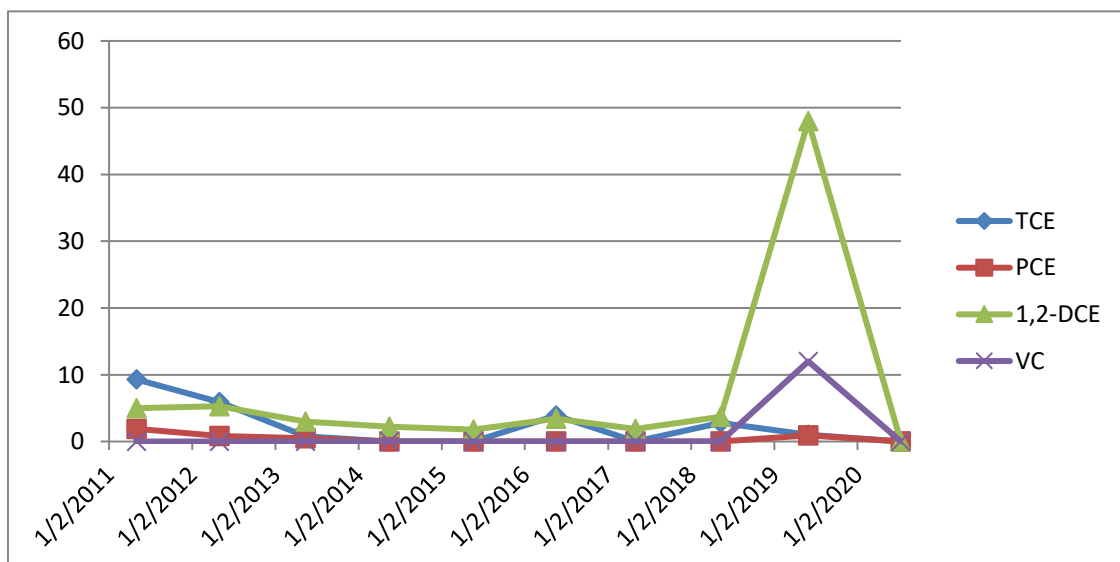
Notes:

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

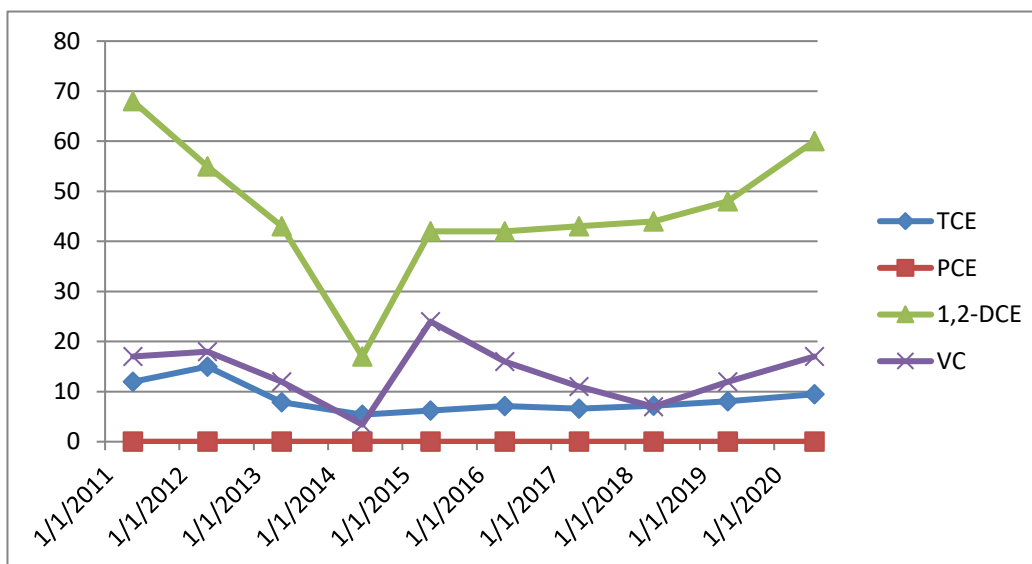
Date	TCE	PCE	1,2-DCE	VC
5/2/2011	12	<	68	17
5/1/2012	15	<	55	18
5/13/2013	7.9	<	43	12
6/2/2014	5.4	<	17	3.4
5/12/2015	6.2	<	42	24
5/9/2016	7.1	<	42	16
5/1/2017	6.6	<	43	11
5/11/2018	7.2	<	44	7
5/14/2019	8.1	<	48	12
7/2/2020	9.5	<	60	17

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

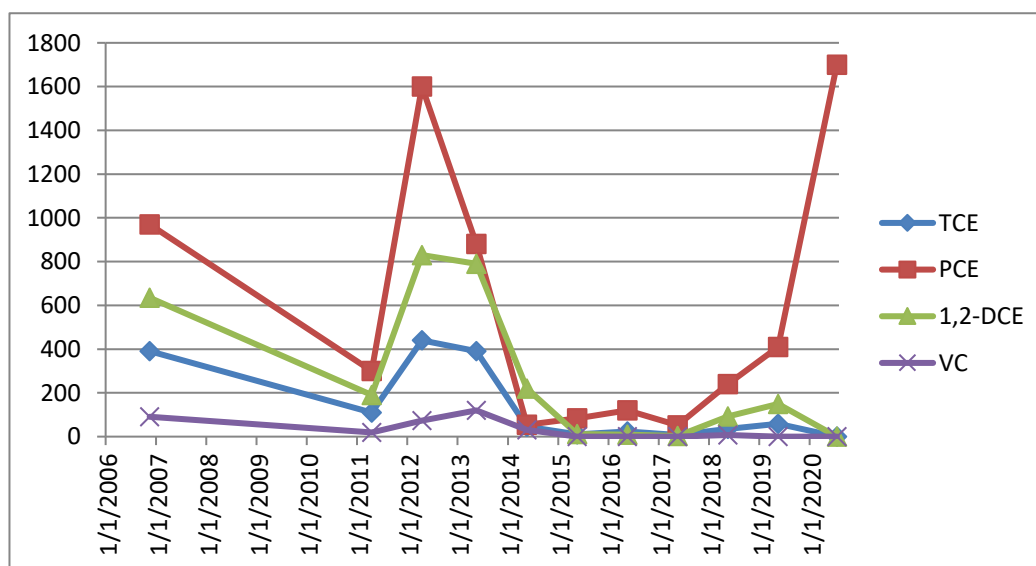
Date	TCE	PCE	1,2-DCE	VC
11/11/2006	390	970	635	91
4/28/2011	110	300	190	19
4/30/2012	440	1,600	830	73
5/10/2013	390	880	790	120
5/29/2014	46	55	220	31
5/14/2015	10	83	12	<
5/16/2016	23	120	9.2	<
5/4/2017	7.7	52	2.6	<
5/30/2018	35	240	92	7.3
5/29/2019	58	410	150	<
7/10/2020	<	1700	<	<

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

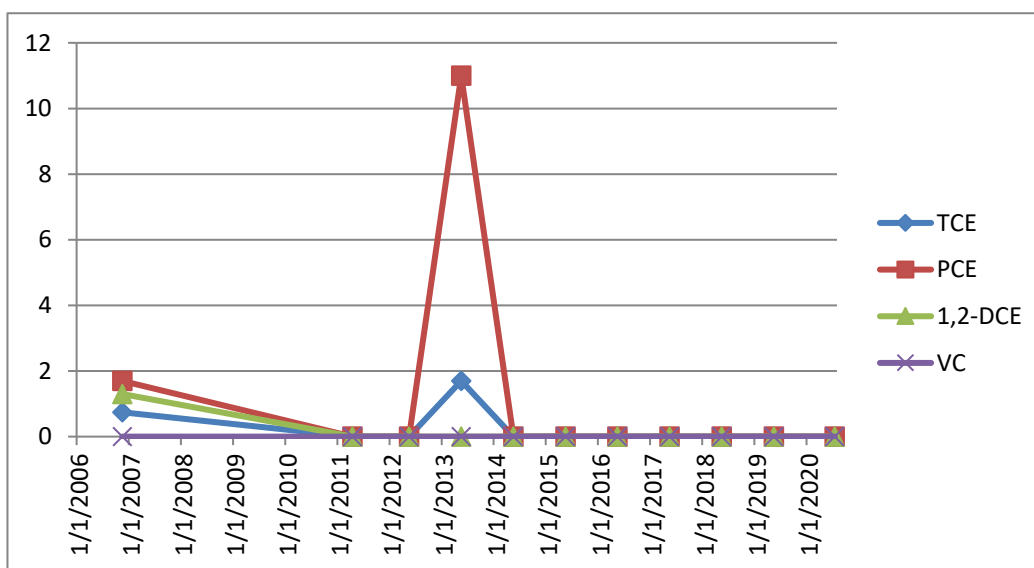
Date	TCE	PCE	1,2-DCE	VC
11/10/2006	0.74	1.7	1.3	<
4/28/2011	<	<	<	<
5/3/2012	<	<	<	<
5/13/2013	1.7	11	<	<
5/22/2014	<	<	<	<
5/21/2015	<	<	<	<
5/18/2016	<	<	<	<
5/5/2017	<	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/13/2020	<	<	<	<

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

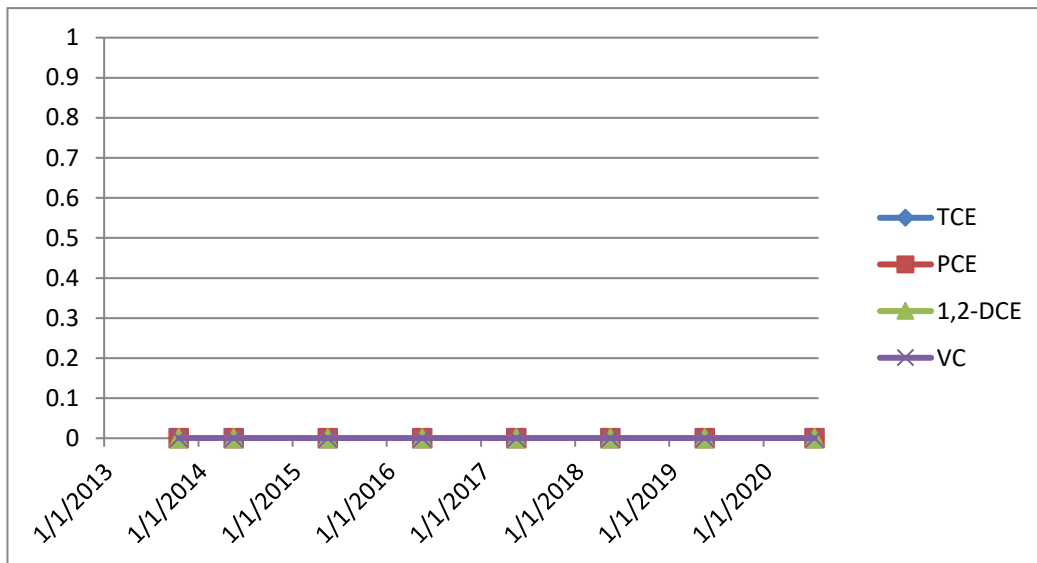
Date	TCE	PCE	1,2-DCE	VC
10/1/2013	<	<	<	<
5/21/2014	<	<	<	<
5/21/2015	<	<	<	<
5/19/2016	<	<	<	<
5/5/2017	<	<	<	<
5/31/2018	<	<	<	<
5/30/2019	<	<	<	<
7/13/2020	<	<	<	<

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

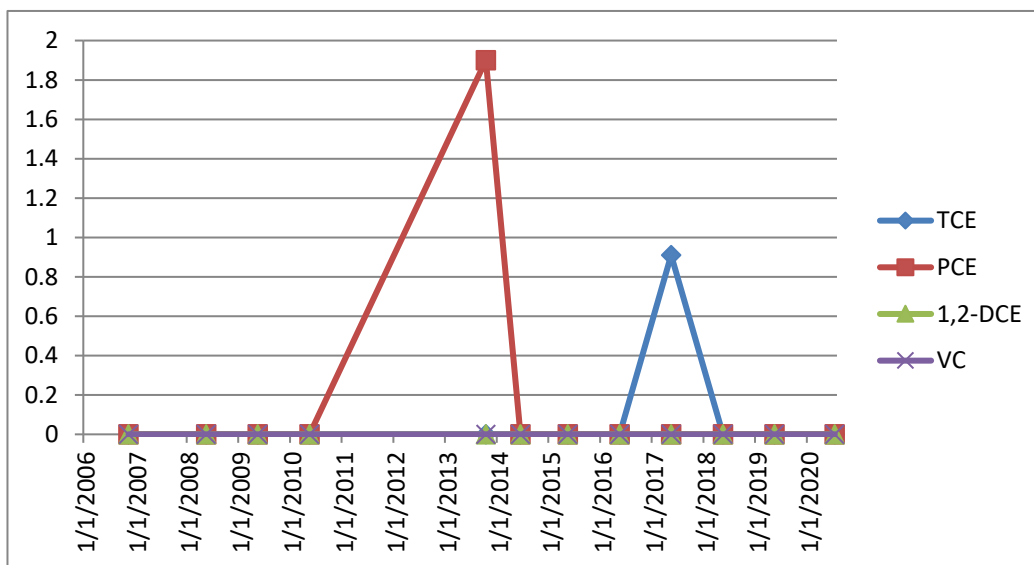
Date	TCE	PCE	1,2-DCE	VC
11/8/2006	<	<	<	<
5/6/2008	<	<	<	<
5/6/2009	<	<	<	<
5/7/2010	<	<	<	<
10/7/2013	<	1.9	<	<
6/2/2014	<	<	<	<
5/20/2015	<	<	<	<
5/19/2016	<	<	<	<
5/10/2017	0.91	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/6/2020	<	<	<	<

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

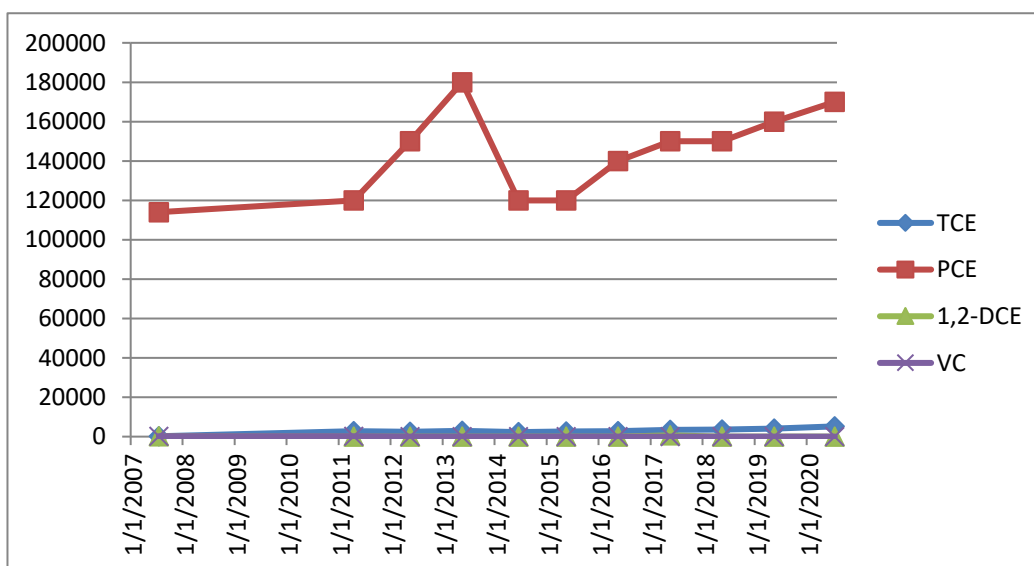
Date	TCE	PCE	1,2-DCE	VC
7/18/2007	200	114,000	235	220
4/29/2011	2,800	120,000	16	100
5/2/2012	2,500	150,000	<	<
5/9/2013	3,000	180,000	<	<
6/3/2014	2300	120000	<	<
5/26/2015	2,600	120,000	<	<
5/19/2016	2,700	140,000	<	<
5/10/2017	3,400	150,000	630	<
5/31/2018	3,600	150,000	<	<
5/31/2019	4,100	160,000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

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

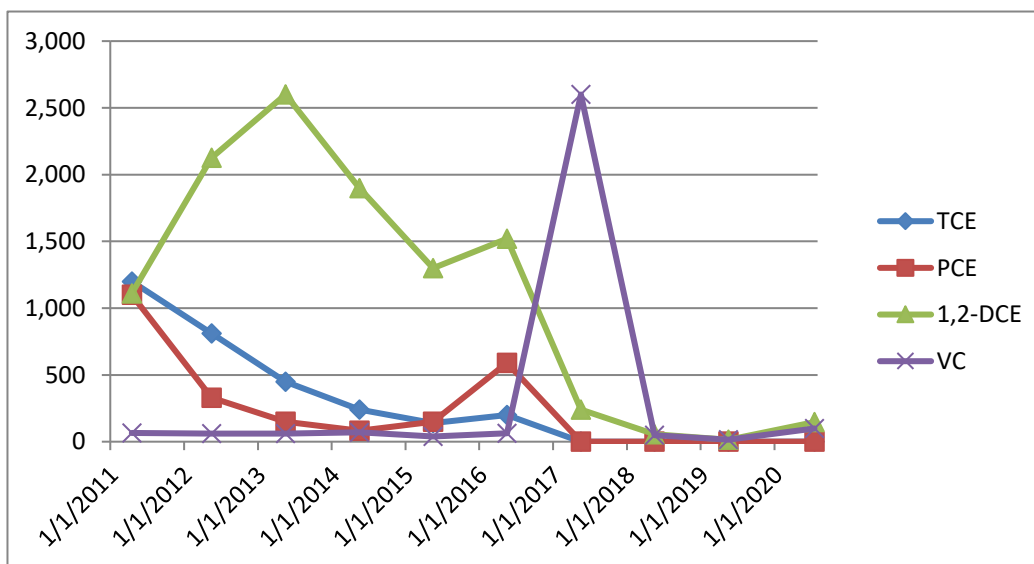
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	1,200	1,100	1,110	66
5/2/2012	810	330	2,126	60
5/9/2013	450	150	2,600	60
5/22/2014	240	83	1900	70
5/19/2015	140	150	1,300	38
5/17/2016	200	590	1,520	62
5/8/2017	<	<	241	2600
5/30/2018	<	<	57	49
5/29/2019	<	<	15	15
7/6/2020	1	<	146.5	98

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	<

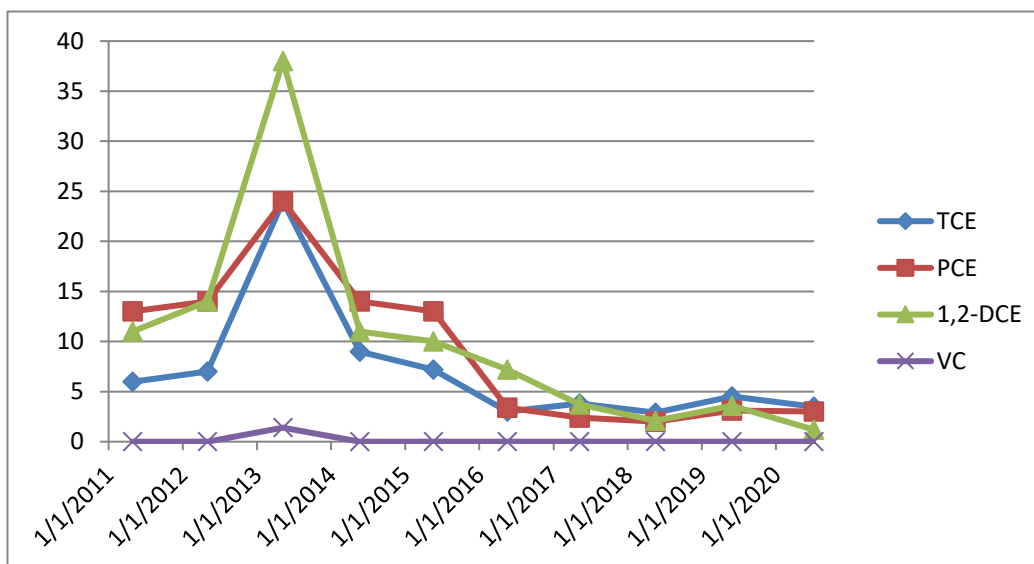
Notes:

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



Memorandum

October 14, 2020

To: Denis Conley [dconley@haleyaldrich.com]

Ref. No.: 058507-256041

From: Kathy Willy/adh/284

Tel: 716-205-1942

CC: Claire Mondello [cmondello@haleyaldrich.com]

Tom Bohlen [thomas.bohlen@gza.com]

**Subject: Analytical Results and Reduced Validation
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

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 June and July 2020. Samples were submitted to Eurofins TestAmerica Laboratories, Inc. 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 form, finished report forms, method blank data, and 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) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", United States Environmental Protection Agency (USEPA) 540-R-10-011, January 2010
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

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 document and analytical reports were used to determine sample holding times. All samples were prepared



and analyzed within the required holding times with the exception of the pH analyses. The samples were received at the laboratory after the 15-minute holding time for pH had expired. A summary of qualified results is presented in Table 4.

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.

Most method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation. Low concentrations of manganese, nitrite (as N), and phenanthrene were reported. Associated sample results with concentrations similar to that found in the blanks were considered to be a reflection of laboratory contamination and were qualified as non-detect. Sample results that were either non-detect or considerably higher in concentration than that reported in the blanks would not have been impacted by the potential contamination, and no qualification of the data was required. A summary of qualified results is presented in Table 5.

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 compound (VOC) and semi-volatile organic compound (SVOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

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

5. Laboratory Control Sample Analyses

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

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



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

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

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

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 some low recoveries for vinyl chloride and ammonia-N. Associated samples were qualified as estimated to reflect the implied low bias. A summary of qualified results is presented in Table 6.

7. 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 the methods. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

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

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, one field duplicate sample was 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 value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.



9. 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.

10. Conclusion

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

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters											Comments	
					Chloride, Sulfate	Ammonia-N	Nitrate (N), Nitrite (N)	Dissolved Gases	Alkalinity	Sulfide	pH	Select Metals	Select VOCs	PAHs	TOC		Volatile Fatty Acids
BLDG-10-MW-1-2020	BLDG-10-MW-1	Water	07/13/2020	14:40	x	x	x	x	x	x		x	x		x		
MW-4-2020	MW-4	Water	06/24/2020	12:15	x	x	x	x	x	x		x	x		x	x	
MW-6-1-2020	MW-6-1	Water	06/29/2020	11:15	x	x	x	x	x	x	x	x	x	x	x		
MW-6-2-2020	MW-6-2	Water	06/29/2020	14:15	x	x	x	x	x	x	x	x	x	x	x		
MW-6-F-8-2020	MW-6-F-8	Water	06/29/2020	12:45	x	x	x	x	x	x	x		x	x	x		
MW-7-2020	MW-7	Water	06/26/2020	09:40	x	x	x	x	x	x		x	x		x	x	
MW-7-1-2020	MW-7-1	Water	07/02/2020	11:15	x	x	x	x	x	x		x	x		x		
MW-7-2-2020	MW-7-2	Water	06/30/2020	13:10	x	x	x	x	x	x		x	x		x		
MW-7-3-2020	MW-7-3	Water	06/30/2020	14:15	x	x	x	x	x	x		x	x		x		
MW-7-4-2020	MW-7-4	Water	07/02/2020	10:05	x	x	x	x	x	x		x	x		x		
MW-7-5-2020	MW-7-5	Water	07/09/2020	09:45	x	x	x	x	x	x		x	x		x		
MW-7-6-2020	MW-7-6	Water	07/07/2020	13:45	x	x	x	x	x	x		x	x		x		
MW-7-7-2020	MW-7-7	Water	07/07/2020	10:30	x	x	x	x	x	x		x	x		x		
MW-7-8-2020	MW-7-8	Water	07/09/2020	08:15	x	x	x	x	x	x		x	x		x		
MW-7-A-6-2020	MW-7-A-6	Water	07/07/2020	12:30	x	x	x	x	x	x		x	x		x		
MW-7-C-2-2020	MW-7-C-2	Water	07/09/2020	10:55	x	x	x	x	x	x		x	x		x		
MW-7-P-1-2020	MW-7-P-1	Water	07/13/2020	13:00	x	x	x	x	x	x		x	x		x		
GW-DUP-2020	MW-7-P-1	Water	07/13/2020	-	x	x	x	x	x	x		x	x		x		Field duplicate of sample MW-7-P-1-2020
MW-8-1-2020	MW-8-1	Water	07/10/2020	10:50	x	x	x	x	x	x		x	x		x		
MW-8-2-2020	MW-8-2	Water	07/10/2020	11:55	x	x	x	x	x	x		x	x		x		
MW-8-3-2020	MW-8-3	Water	07/10/2020	12:20	x	x	x	x	x	x		x	x		x		
MW-8-003-B-2020	MW-8-003-B	Water	07/10/2020	08:30	x	x	x	x	x	x		x	x		x		
MW-8-4-2020	MW-8-4	Water	07/02/2020	12:20	x	x	x	x	x	x		x	x		x		
MW-9-12-2020	MW-9-12	Water	07/13/2020	11:30	x	x	x	x	x	x		x	x	x	x		
MW-9-101-A-2020	MW-9-101-A	Water	07/13/2020	10:25	x	x	x	x	x	x		x	x	x	x		
MW-10-2020	MW-10	Water	06/24/2020	14:15	x	x	x	x	x	x		x	x		x	x	
MW-10-2-2020	MW-10-2	Water	07/06/2020	14:30	x	x	x	x	x	x		x	x		x		
MW-10-3-2020	MW-10-3	Water	07/06/2020	13:15	x	x	x	x	x	x		x	x		x		
MW-11-2020	MW-11	Water	06/25/2020	12:35	x	x	x	x	x	x		x	x		x	x	
MW-12-2020	MW-12	Water	06/26/2020	14:15	x	x	x	x	x	x		x	x		x	x	
MW-13	MW-13	Water	06/25/2020	14:10	x	x	x	x	x	x		x	x		x	x	
MW-14-2020	MW-14	Water	06/26/2020	11:45	x	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
June-July 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters											Comments	
					Chloride, Sulfate	Ammonia-N	Nitrate (N), Nitrite (N)	Dissolved Gases	Alkalinity	Sulfide	pH	Select Metals	Select VOCs	PAHs	TOC		Volatile Fatty Acids
MW-15-2020	MW-15	Water	06/25/2020	10:45	x	x	x	x	x	x		x	x		x	x	
TK-6-2020	TK-6	Water	07/06/2020	12:00	x	x	x	x	x	x		x	x		x		
TRIP BLANK 062920	-	Water	06/29/2020	-									x				Trip Blank
TRIP BLANK 063020	-	Water	06/30/2020	-									x				Trip Blank
TRIP BLANK	-	Water	07/02/2020	-									x				Trip Blank
TRIP BLANK-1	-	Water	07/06/2020	-									x				Trip Blank
TRIP BLANK-2	-	Water	07/06/2020	-									x				Trip Blank
TripBlank	-	Water	07/09/2020	-									x				Trip Blank
Trip Blank 071020	-	Water	07/10/2020	-									x				Trip Blank
TRIP BLANK 1	-	Water	07/13/2020	-									x				Trip Blank
TRIP BLANK 2	-	Water	07/13/2020	-									x				Trip Blank

Notes:

- VOCs - Volatile Organic Compounds
- PAHs - Polynuclear Aromatic Hydrocarbons
- TOC - Total Organic Carbon
- - Not applicable

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID: Sample Name: Sample Date:		BLDG-10-MW-1 BLDG-10-MW-1-2020 07/13/2020	MW-6-1 MW-6-1-2020 06/29/2020	MW-6-2 MW-6-2-2020 06/29/2020	MW-6-F-8 MW-6-F-8-2020 06/29/2020	MW-7-1 MW-7-1-2020 07/02/2020	MW-7-2 MW-7-2-2020 06/30/2020	MW-7-3 MW-7-3-2020 06/30/2020
Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	2000 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Tetrachloroethene	µg/L	170000	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	µg/L	2000 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Trichloroethene	µg/L	5200	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Vinyl chloride	µg/L	2000 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.8 J
Semi-volatile 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	79000	120000	63000	64000	66000	35000	87000
Ethane	µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	170 U
Ethene	µg/L	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	150 U
Methane	µg/L	4.6	5.2	4.0 U	4.0 U	28	4.0 U	330
Metals								
Iron	mg/L	1.3	8.6	0.13	0.034 J	0.094	0.028 J	5.5
Magnesium	mg/L	101	55.1	56.0	159	134	34.5	148
Manganese	mg/L	0.62	1.3	0.33	0.28	0.51	0.012	0.42
Potassium	mg/L	5.1	2.5	4.8	6.2	6.3	1.0	30.9
Sodium	mg/L	133	456	831	2160	969	51.6	4710

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID:		BLDG-10-MW-1	MW-6-1	MW-6-2	MW-6-F-8	MW-7-1	MW-7-2	MW-7-3
Sample Name:		BLDG-10-MW-1-2020	MW-6-1-2020	MW-6-2-2020	MW-6-F-8-2020	MW-7-1-2020	MW-7-2-2020	MW-7-3-2020
Sample Date:		07/13/2020	06/29/2020	06/29/2020	06/29/2020	07/02/2020	06/30/2020	06/30/2020
Parameters	Unit							
General Chemistry								
Temperature, at time of pH analysis	Deg C	-	20.2 J	20.3 J	20.2 J	-	-	-
Alkalinity, total (as CaCO ₃)	mg/L	302	438	406	363	316	349	382
Ammonia-N	mg/L	0.20	0.20	0.020 U	0.020 U	0.020 U	0.020 U	1.6
Chloride	mg/L	614	966	1290	4050	2380	87.7	8250
Nitrate (as N)	mg/L	-	0.076	0.10	0.15	0.050 U	0.022 J	0.050 U
Nitrite (as N)	mg/L	-	0.050 U	0.028 J	0.020 J	0.050 U	0.050 U	0.050 U
Nitrite/Nitrate	mg/L	0.050 U	-	-	-	-	-	-
Sulfate	mg/L	255	49.8	110	359	123	20.3	715
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	4.0	2.5	1.2	1.5	1.7	3.0
pH, lab	s.u.	-	7.0 J	7.1 J	7.1 J	-	-	-

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID: Sample Name: Sample Date:		MW-7-4 MW-7-4-2020 07/02/2020	MW-7-5 MW-7-5-2020 07/09/2020	MW-7-6 MW-7-6-2020 07/07/2020	MW-7-7 MW-7-7-2020 07/07/2020	MW-7-8 MW-7-8-2020 07/09/2020	MW-7-A-6 MW-7-A-6-2020 07/07/2020	MW-7-C-2 MW-7-C-2-2020 07/09/2020
Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	1.0 U	5.6	480	54000	2000 U	62000	220
Tetrachloroethene	µg/L	1.0 U	48	560	68000	2000 U	2000 U	10 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	10 U	2000 U	2000 U	2000 U	10 U
Trichloroethene	µg/L	1.0 U	7.4	260	6800	2000 U	2000 U	10 U
Vinyl chloride	µg/L	1.0 U	1.0 U	11	9600	2000 U	18000	28
Semi-volatile 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	36000	26000	35000	76000	37000	170000	23000
Ethane	µg/L	7.5 U	7.5 U	5.6 J	40 J	14	83 U	7.5 U
Ethene	µg/L	7.0 U	7.0 U	7.0 U	1300	8.0	2300	7.0 U
Methane	µg/L	4.0 U	4.0 U	240	900	94	2500	460
Metals								
Iron	mg/L	0.25	1.1	0.12	0.049 J	14.8	11.6	2.0
Magnesium	mg/L	35.3	187	71.2	231	201	120	74.2
Manganese	mg/L	0.012	1.6	0.18	0.051	0.94	1.8	0.15
Potassium	mg/L	2.3	16.4	10.8	43.6	52.7	3.2	7.8
Sodium	mg/L	180	3220	2300	1650	2060	462	135

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID:		MW-7-4	MW-7-5	MW-7-6	MW-7-7	MW-7-8	MW-7-A-6	MW-7-C-2
Sample Name:		MW-7-4-2020	MW-7-5-2020	MW-7-6-2020	MW-7-7-2020	MW-7-8-2020	MW-7-A-6-2020	MW-7-C-2-2020
Sample Date:		07/02/2020	07/09/2020	07/07/2020	07/07/2020	07/09/2020	07/07/2020	07/09/2020
Parameters	Unit							
General Chemistry								
Temperature, at time of pH analysis	Deg C	-	-	-	-	-	-	-
Alkalinity, total (as CaCO ₃)	mg/L	376	372	300	316	83.2	474	235
Ammonia-N	mg/L	0.020 U	0.020 U	0.020 U	3.5	0.84	0.053	0.37
Chloride	mg/L	264	97.8	4990	4030	4580	1130	189
Nitrate (as N)	mg/L	0.042 J	2.6	0.16	0.050 U	0.074	0.058	0.050 U
Nitrite (as N)	mg/L	0.050 U	0.11	0.050 U	0.050 U	0.026 J	0.026 J	0.050 U
Nitrite/Nitrate	mg/L	-	-	-	-	-	-	-
Sulfate	mg/L	53.7	10.9	238	432	205	47.5	477
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	17.6	1.0 U	1.6	1.0 U
Total organic carbon (TOC)	mg/L	1.2	11.3	2.0	17.3	1.3	13.4	1.5
pH, lab	s.u.	-	-	-	-	-	-	-

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID: Sample Name: Sample Date:		MW-7-P-1 MW-7-P-1-2020 07/13/2020	MW-7-P-1 GW-DUP-2020 07/13/2020 Duplicate	MW-8-1 MW-8-1-2020 07/10/2020	MW-8-2 MW-8-2-2020 07/10/2020	MW-8-3 MW-8-3-2020 07/10/2020	MW-8-003-B MW-8-003-B-2020 07/10/2020	MW-8-4 MW-8-4-2020 07/02/2020
Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	1.2	2.0 U	0.84 J	4500	2000 U	2000 U	60
Tetrachloroethene	µg/L	1.0 U	2.0 U	1.0 U	10 U	2000 U	1700 J	2.0 U
trans-1,2-Dichloroethene	µg/L	2.8	2.5	1.0 U	12	2000 U	2000 U	2.0 U
Trichloroethene	µg/L	1.0 U	2.0 U	1.0 U	11	2000 U	2000 U	9.5
Vinyl chloride	µg/L	1.7	1.9 J	1.0 U	480	2000 U	2000 U	17
Semi-volatile 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	100000	100000	52000	24000	96000	14000	23000
Ethane	µg/L	83 U	83 U	12	2.0 J	170 U	7.5 U	83 U
Ethene	µg/L	77 U	77 U	7.0 U	2.4 J	150 U	7.0 U	77 U
Methane	µg/L	6300	6600	120	190	330	4.0 U	280
Metals								
Iron	mg/L	66.3	63.8	0.060	0.035 J	2.3	0.25	0.47
Magnesium	mg/L	251	243	120	45.4	60.3	24.0	73.5
Manganese	mg/L	3.5	3.5	0.11	0.029	7.9	0.99	0.60
Potassium	mg/L	30.1	29.4	20.9	15.5	483	6.5	13.6
Sodium	mg/L	159	156	652	237	359	3150	2480

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID:		MW-7-P-1	MW-7-P-1	MW-8-1	MW-8-2	MW-8-3	MW-8-003-B	MW-8-4
Sample Name:		MW-7-P-1-2020	GW-DUP-2020	MW-8-1-2020	MW-8-2-2020	MW-8-3-2020	MW-8-003-B-2020	MW-8-4-2020
Sample Date:		07/13/2020	07/13/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/02/2020
		Duplicate						
Parameters	Unit							
General Chemistry								
Temperature, at time of pH analysis	Deg C	-	-	-	-	-	-	-
Alkalinity, total (as CaCO ₃)	mg/L	199	180	302	322	322	285	269
Ammonia-N	mg/L	200	193	1.2	0.49	5.2	0.075	0.051
Chloride	mg/L	2980	3080	1380	383	2000	5270	4140
Nitrate (as N)	mg/L	-	-	0.050 U	0.20	0.094	0.41	0.050 U
Nitrite (as N)	mg/L	-	-	0.050 U	0.10	0.050 U	0.050 U	0.050 U
Nitrite/Nitrate	mg/L	0.050 U	0.035 J	-	-	-	-	-
Sulfate	mg/L	100 U	100 U	822	160	56.9	194	369
Sulfide	mg/L	1.0 U	1.0 U	5.6	1.0 U	1.0 U	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	6.0	6.1	1.0	1.5	10.4	2.0	2.2
pH, lab	s.u.	-	-	-	-	-	-	-

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID: Sample Name: Sample Date:		MW-9-12 MW-9-12-2020 07/13/2020	MW-9-101-A MW-9-101-A-2020 07/13/2020	MW-10-2 MW-10-2-2020 07/06/2020	MW-10-3 MW-10-3-2020 07/06/2020	TK-6 TK-6-2020 07/06/2020
Parameters	Unit					
Volatile Organic Compounds						
cis-1,2-Dichloroethene	µg/L	1.0 U	2.0 U	140	1.2	1.0 U
Tetrachloroethene	µg/L	1.0 U	2.0 U	2.0 U	3.0	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	2.0 U	6.5	1.0 U	1.0 UJ
Trichloroethene	µg/L	1.0 U	2.0 U	1.0 J	3.5	1.0 U
Vinyl chloride	µg/L	1.0 U	2.0 U	98	1.0 U	1.0 U
Semi-volatile Organic Compounds						
Acenaphthene	µg/L	5.0 U	5.0 U	-	-	-
Acenaphthylene	µg/L	5.0 U	5.0 U	-	-	-
Anthracene	µg/L	5.0 U	5.0 U	-	-	-
Benzo(a)anthracene	µg/L	5.0 U	5.0 U	-	-	-
Benzo(a)pyrene	µg/L	5.0 U	5.0 U	-	-	-
Benzo(b)fluoranthene	µg/L	5.0 U	5.0 U	-	-	-
Benzo(g,h,i)perylene	µg/L	5.0 U	5.0 U	-	-	-
Benzo(k)fluoranthene	µg/L	5.0 U	5.0 U	-	-	-
Chrysene	µg/L	5.0 U	5.0 U	-	-	-
Dibenz(a,h)anthracene	µg/L	5.0 U	5.0 U	-	-	-
Fluoranthene	µg/L	5.0 U	5.0 U	-	-	-
Fluorene	µg/L	5.0 U	5.0 U	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	5.0 U	5.0 U	-	-	-
Naphthalene	µg/L	5.0 U	5.0 U	-	-	-
Phenanthrene	µg/L	5.0 U	5.0 U	-	-	-
Pyrene	µg/L	5.0 U	5.0 U	-	-	-
Dissolved Gases						
Carbon dioxide	µg/L	27000	38000	26000	13000	24000
Ethane	µg/L	7.5 U	7.5 U	140	7.5 U	7.5 U
Ethene	µg/L	7.0 U	7.0 U	310	7.0 U	7.0 U
Methane	µg/L	11	4.0 U	3200	4.0 U	4.0 U
Metals						
Iron	mg/L	0.18	0.050 U	0.56	0.050 U	0.050 U
Magnesium	mg/L	31.8	145	57.8	29.4	28.3
Manganese	mg/L	0.33	0.21	0.24	0.0030 U	0.0030 U
Potassium	mg/L	5.2	32.4	8.3	7.9	0.82
Sodium	mg/L	617	2000	1550	169	644

Table 2

**Analytical Results Summary
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Location ID:		MW-9-12	MW-9-101-A	MW-10-2	MW-10-3	TK-6
Sample Name:		MW-9-12-2020	MW-9-101-A-2020	MW-10-2-2020	MW-10-3-2020	TK-6-2020
Sample Date:		07/13/2020	07/13/2020	07/06/2020	07/06/2020	07/06/2020
Parameters	Unit					
General Chemistry						
Temperature, at time of pH analysis	Deg C	-	-	-	-	-
Alkalinity, total (as CaCO ₃)	mg/L	319	239	346	181	385
Ammonia-N	mg/L	0.018 J	0.020 U	0.27 J	0.037 J	0.020 UJ
Chloride	mg/L	1020	3920	2410	198	843
Nitrate (as N)	mg/L	-	-	0.050 U	0.54	0.43
Nitrite (as N)	mg/L	-	-	0.050 U	0.050 U	0.050 U
Nitrite/Nitrate	mg/L	0.36	1.3	-	-	-
Sulfate	mg/L	136	1290	165	171	183
Sulfide	mg/L	1.0 U	1.0 U	9.2	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	1.3	3.3	4.6	1.2	1.7
pH, lab	s.u.	-	-	-	-	-

Notes:

- J - Estimated concentration
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 3

**Analytical Methods
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020**

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Select Volatile Organic Compounds (VOCs)	SW-846 8260	Water	-	14
Polynuclear Aromatic Hydrocarbons (PAHs)	SW-846 8270	Water	7	40
Total Organic Carbon (TOC)	SW-846 9060	Water	-	28
Sulfide	EPA 376.1	Water	-	7
Ammonia -N	EPA 350.1	Water	-	28
Chloride, Sulfate	EPA 300	Water	-	28
Nitrite, Nitrate	EPA 353.2	Water	-	48 hours
Alkalinity	SM 2320	Water	-	14
Methane, Ethane, Ethene, Carbon dioxide	RSK 175	Water	-	14
Select Metals	SW-846 6010B	Water	-	180

Notes:

- - Not applicable

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
June-July 2020

Parameter	Sample ID	Holding Time (minutes)	Holding Time Criteria (minutes)	Analyte	Qualified Sample Results	Units
General Chemistry	MW-6-1-2020	> 15	< 15	pH, lab	7.0 J	s.u.
	MW-6-F-8-2020				7.1 J	s.u.
	MW-6-2-2020				7.1 J	s.u.

Notes:

J - Estimated concentration

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Manganese	07/08/2020	0.000530 J	TK-6-2020	0.0010 J	0.0030 U	mg/L
				MW-10-3-2020	0.00096 J	0.0030 U	mg/L
General Chemistry	Nitrite (as N)	07/11/2020	0.0244 J	MW-8-1-2020	0.023 J	0.050 U	mg/L
SVOCs	Phenanthrene	07/15/2020	0.557 J	MW-9-101-A-2020	0.48 J	5.0 U	µg/L
				MW-9-12-2020	0.49 J	5.0 U	µg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration
- SVOCs - Semi-volatile Organic Compounds

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Annual Groundwater Monitoring
GM Components Holdings-BCP Sites
Lockport, New York
June-July 2020

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
General Chemistry	TK-6-2020	Ammonia-N	77	75	3	90 - 110	20	0.020 UJ	mg/L
	MW-10-3-2020							0.037 J	mg/L
	MW-10-2-2020							0.27 J	mg/L
General Chemistry	MW-8-2-2020	Nitrite (as N)	117	-	-	90 - 110	-	0.0244 J	mg/L
VOCs	TK-6-2020	trans-1,2-Dichloroethene	42	66	45	73 - 127	20	1.0 UJ	µg/L

Notes:

MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 RPD - Relative Percent Difference
 J - Estimated concentration
 UJ - Not detected; associated reporting limit is estimated
 VOCs - Volatile Organic Compounds
 - - Not applicable



APPENDIX D

ANAEROBIC BIODEGRADATION SCREENING TABLES

EPA cVOC MONITORED NATURAL ATTENUATION RANKING SYSTEM

2020 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	3	0	3	-3	-3	3	3	0	3	3	3	3	3	3	3	3	0	3	0	0	3	0	3	3	0
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	0	2	2	2	2	2
Iron II	>1 mg/l	2	0	0	2	0	2	0	0	2	2	2	2	2	2	0	0	0	2	0	0	0	0	0	2	0	0
Sulfate	<20 mg/L	2	0	0	0	0	2	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Sulfide	>1 mg/L	3	0	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0
Methane	<0.5 mg/L	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Methane	>0.5 mg/L	3																									
ORP	<50 mV	1	0	0	1	0	0	1	2	1	2	2	2	1	0	0	2	2	1	1	0	0	0	0	1	2	0
ORP	<-100 mV	2																									
pH	5> pH <9	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	-2	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temp	> 20°C	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	0	0
Carbon Dioxide	>2 times background (15,000)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1
Alkalinity	>2 times background (356)	1	0	0	1	1	1	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0
Chloride	>2 times background (2,195)	2	2	0	2	0	0	2	2	2	0	0	2	0	0	2	0	0	0	2	2	2	0	0	0	0	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	0	2	2	2	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	2	0	0
DCE	If Daughter Product	2	0	0	0	0	2	2	2	0	2	2	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
VC	If Daughter Product	2	0	0	0	0	0	2	2	0	2	2	0	0	0	0	0	0	2	0	2	0	0	0	0	0	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	3	0
	>0.1 mg/L	3																									
Chloroform	If Daughter Product	2																									
Dichloromethane	If Daughter Product	2																									
	SCORE	8	3	12	1	8	15	22	8	24	14	18	10	9	9	9	13	16	9	17	7	6	8	6	14	20	5

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



APPENDIX E

TABLE E-1 WELL CONDITION SURVEY

TABLE E-1
WELL CONDITION SURVEY
GMCH LOCKPORT/DELPHI HARRISON SITE
June 22, 2020

Well ID	Surface Completion Type	Condition of Well Tag	Outer Casing Condition	Surface Seal Condition (Gasket)	Lock Present?	Lock Condition	Condition of Drainage Pad (Concrete)	PID Reading (ppm)	Depth to Water	Top of Riser Elevation (AMSL)	Water Elevation (AMSL)	Well Depth to Bottom	Well Bottom Condition	Inner Riser Condition	Inner Riser Size & Type	Riser Cap Present?	Riser Cap Type	Comments/Notes
MW-6-2	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	3.27	609.33	606.06	26.11	Hard	OK	2" PVC	Yes	J-Plug	
MW-6-1	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	5.35	598.23	592.88	18.81	Hard	OK	2" PVC	Yes	J-Plug	
MW-15	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	7.79	594.04	586.25	16.92	Hard	OK	2" PVC	Yes	J-Plug	
MW-11	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	5.99	590.16	584.17	25.18	Hard	OK	2" PVC	Yes	J-Plug	
MW-13		Good	Good	Good	NA	N/A	Good	0	5.46	589.02	583.56	14.09	Hard	OK	2" PVC	Yes	J-Plug	Has inner 2" PVC J-plug and intermediate 4" Steel casing also has J-Plug.
MW-14	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	6.88	592.77	585.89	21.39	Hard	OK	2" PVC	Yes	J-Plug	
MW-12	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	5.81	590.71	584.90	16.41	Hard	OK	2" PVC	Yes	slip on	
MW-7-3		Good	Good	Good	NA	N/A	Good	0	4.30	593.03	588.73	24.97	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-1R		Good	Good	Good	NA	N/A	Good	0	4.32	596.96	592.64	22.51	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-2	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	8.18	592.57	584.39	21.66	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-4	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	12.11	593.53	581.42	21.42	Hard	OK	2" PVC	Yes	J-Plug	
MW-4	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.5	9.39	613.07	603.68	34.93	Relatively soft	OK	2" PVC	Yes	slip on	
MW-10	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	15.15	604.70	589.55	23.73	Hard	OK	2" PVC	No	slip on	Needs 2" PVC slip cap.
MW-8-4		Good	Good	Good	NA	N/A	Good	0	8.78	613.01	604.23	21.43	Hard	OK	2" PVC	Yes	J-Plug	
MW-8-2		Good	Good	Good	NA	N/A	Good	0.3	7.53	615.14	607.61	22.71	Hard	OK	2" PVC	Yes	J-Plug	Well covered on 6/22/20. Well observed and water level measured on 7/10/20.
MW-8-3		Good	Good	Good	NA	N/A	Good	0.1	8.33	615.08	606.75	22.03	Hard	OK	2" PVC	Yes	slip on	
MW-8-1		Good	Good	Good	NA	N/A	Good	0	5.32	615.11	609.79	20.15	Soft	OK	2" PVC	Yes	J-Plug	
MW-8-003-B		Good	Good	Good	NA	N/A	Good	0.8	4.78	610.94	606.16	14.33	Hard	OK	2" PVC	Yes	J-Plug	Missing bolt and bolt collar.
MW-7-C-2		Good	Good	Good	NA	N/A	Good	0	5.22	608.96	603.74	24.09	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-6		Good	Good	Good	NA	N/A	Good	0	4.24	606.30	602.06	16.54	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-5		Good	Good	Good	NA	N/A	Good	0	7.27	610.96	603.69	21.08	Hard	OK	2" PVC	Yes	slip on	
MW-7-P-1		Good	Good	Good	NA	N/A	Good	0.4	9.49	615.09	605.60	19084.00	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-8		Good	Poor	Good	NA	N/A	Good	5.4	6.64	610.92	604.28	19.45	Hard	OK	2" PVC	Yes	J-Plug	One inner bolt hole broken. Well under positive pressure.
MW-7-A-6		Good	Good	Good	NA	N/A	Good	114.4	2.26	610.72	608.46	14.02	Soft	OK	2" PVC	Yes	J-Plug	Needs one bolt (9/16" head).
MW-10-2		Good	Good	Good	NA	N/A	Good	0	2.92	611.26	608.34	16.09	Hard	OK	2" PVC	Yes	slip on	
MW-7-7		Good	Good	Good	NA	N/A	Good	199.6	3.18	610.24	607.06	22.09	Hard	OK	2" PVC	Yes	J-Plug	Water in road box from between 2" PVC and 4" steel casings.
MW-10-3		Good	Good	Good	NA	N/A	Good	0	2.83	610.40	607.57	15.41	Hard	OK	2" PVC	Yes	J-Plug	
MW-9-101-A		Good	Good	Good	NA	N/A	Good	0	4.86	613.53	608.67	12.21	Hard	OK	2" PVC	Yes	J-Plug	
MW-9-12		Good	Good	Good	NA	N/A	Good	0	7.80	614.92	607.12	15.56	Hard	OK	2" PVC	Yes	J-Plug	
TK-6	Stick-Up	Good	Good	N/A	Yes	Good	Good	0	9.96	621.69	611.73	13.30	Hard	OK	4" PVC	Yes	J-Plug	Dedicated bailer in well.
BLDG10 MW-1		Good	Good	Good	NA	N/A	Good	288	5.75	615.05	609.30	15.59	Hard	OK	2" PVC	Yes	J-Plug	
MW-7	Stick-Up	Good	Good	N/A	Yes	Good	Good	38	8.04	613.86	605.82	28.08	Hard	OK	2" PVC	Yes	slip on	
MW-6-F-8		Good	Good	Good	NA	N/A	Good	0	7.76	612.26	604.50	14.38	Hard	OK	2" PVC	Yes	J-Plug	
MW-9	Stick-Up	Good	Good	N/A	Yes	Good	Good											Well no longer is sampled
MW-5	Stick-Up	Good	Good	N/A	Yes	Good	Good											Well no longer is sampled
MW-3S	Stick-Up	Good	Good	N/A	Yes	Good	N/A											Well no longer is sampled
MW-3D	Stick-Up	Good	Good	N/A	Yes	Good	Good											Well no longer is sampled



APPENDIX F

TESTAMERICA ANALYTICAL LABORATORY REPORTS

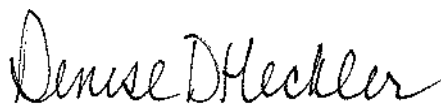
ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-171808-1
Laboratory Sample Delivery Group: BCP
Client Project/Site: 058507, GM Lockport SSOW 256041

For:
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Attn: Kathleen Willy



Authorized for release by:
7/27/2020 10:13:29 AM

Denise Heckler, Project Manager II
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	8
Client Sample Results	18
Surrogate Summary	45
QC Sample Results	47
QC Association Summary	91
Lab Chronicle	110
Certification Summary	123
Method Summary	125
Sample Summary	126
Chain of Custody	127
Receipt Checklists	150



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
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 approximate value.

GC VOA

Qualifier	Qualifier Description
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
□	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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
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 256041

Job ID: 480-171808-1
SDG: BCP

Job ID: 480-171808-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-171808-1

Comments

Due to instrument failure from a power outage in Buffalo, the following samples: MW-9-101-A-2020, MW-9-12-2020, MW-7-P-1-2020, BLDG-10-MW-1-2020, GW-DUP-2020 were subcontracted to Canton for nitrate-nitrite analysis. Individual nitrate and nitrite analysis is not provided due to holding time expirations.

Receipt

The samples were received on 6/29/2020 3:02 PM, 6/30/2020 3:02 PM, 7/2/2020 1:06 PM, 7/6/2020 3:05 PM, 7/7/2020 2:45 PM, 7/9/2020 1:23 PM, 7/10/2020 2:30 PM and 7/13/2020 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 2.4° C, 2.6° C, 2.7° C, 2.8° C, 3.4° C, 3.6° C, 4.3° C and 5.6° C.

GC/MS VOA

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 laboratory control sample (LCS) for analytical batch 480-540161 recovered outside control limits for the following analyte: 1,1,1-Trichloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-540161 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: MW-7-8-2020 (480-172156-1), MW-8-003-B-2020 (480-172221-1) and MW-8-3-2020 (480-172221-5).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-540161 was outside the method criteria for the following analyte: Vinyl chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-540161 recovered above the upper control limit for Carbon tetrachloride, Vinyl chloride, Dichlorobromomethane, 1,1,1-Trichloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TripBlank (480-172156-4).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-540282 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The associated sample is impacted: Trip Blank (480-172221-4).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-540282 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is impacted: Trip Blank (480-172221-4).

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

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-540460 and analytical batch 480-541066 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: MW-9-101-A-2020 (480-172300-1). Therefore, the data has been reported.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-540460 and analytical batch 480-541178 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: MW-9-12-2020 (480-172300-2). Therefore, the data has been reported.

Case Narrative

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Job ID: 480-171808-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or 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.

Method 300.0: The continuing calibration blank (CCB) for analytical batch 480-540323 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Method 6010C: The low level continuing calibration verification (CCVL 480-540509/42) recovered above the upper control limits for Total Iron and Manganese. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-7-8-2020 (480-172156-1), MW-7-5-2020 (480-172156-2), MW-7-C-2-2020 (480-172156-3) and (LCSD 480-539993/23-A) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-540509/42) recovered above the upper control limits for Total Sodium. The sample associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-7-C-2-2020 (480-172156-3) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-540675/19) recovered above the upper control limits for Total Sodium. The sample associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-7-8-2020 (480-172156-1) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-540677/19) recovered above the upper control limit for Total Potassium. The sample associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-8-1-2020 (480-172221-2) was not performed.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-6-1-2020 (480-171808-1), MW-6-F-8-2020 (480-171808-2) and MW-6-2-2020 (480-171808-3).

Method SM 4500 S2 F: The starch indicator used in method was expired. The following samples are effected: MW-6-1-2020 (480-171808-1), MW-6-F-8-2020 (480-171808-2), MW-6-2-2020 (480-171808-3), MW-7-2-2020 (480-171837-1), MW-7-3-2020 (480-171837-2), (480-171808-C-1 MS) and (480-171837-C-2 DU).

Method SM 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due a failing ICV due to instrument malfunction: MW-7-2-2020 (480-171837-1) and MW-7-3-2020 (480-171837-2).

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

Case Narrative

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Job ID: 480-171808-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-540460.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-1-2020

Lab Sample ID: 480-171808-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	120000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	5.2		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	8.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	55.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	456		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	966		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	49.8		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.20	B	0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.076		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	4.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	438		5.0	0.79	mg/L	1		SM 2320B	Total/NA
pH	7.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW-6-F-8-2020

Lab Sample ID: 480-171808-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	64000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.034	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	159		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.28		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2160		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4050		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	359		100	17.5	mg/L	50		300.0	Total/NA
Nitrate	0.15		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.020	J	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	363	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW-6-2-2020

Lab Sample ID: 480-171808-3

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	0.13		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	56.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.33		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	831		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1290		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	110		40.0	7.0	mg/L	20		300.0	Total/NA
Nitrate	0.10		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.028	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	406		5.0	0.79	mg/L	1		SM 2320B	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.3	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: TRIP BLANK 062920

Lab Sample ID: 480-171808-4

No Detections.

Client Sample ID: MW-7-2-2020

Lab Sample ID: 480-171837-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	35000		5000	5000	ug/L	1			RSK-175	Total/NA
Iron	0.028	J	0.050	0.019	mg/L	1			6010C	Total/NA
Magnesium	34.5		0.20	0.043	mg/L	1			6010C	Total/NA
Manganese	0.012		0.0030	0.00040	mg/L	1			6010C	Total/NA
Potassium	1.0		0.50	0.10	mg/L	1			6010C	Total/NA
Sodium	51.6		1.0	0.32	mg/L	1			6010C	Total/NA
Chloride	87.7		2.5	1.4	mg/L	5			300.0	Total/NA
Sulfate	20.3		10.0	1.7	mg/L	5			300.0	Total/NA
Nitrate	0.022	J	0.050	0.020	mg/L	1			353.2	Total/NA
Total Organic Carbon	1.7		1.0	0.43	mg/L	1			9060A	Total/NA
Total Alkalinity	347	F1 ^	5.0	0.79	mg/L	1			SM 2320B	Total/NA
Total Alkalinity	349	H	5.0	0.79	mg/L	1			SM 2320B	Total/NA

Client Sample ID: MW-7-3-2020

Lab Sample ID: 480-171837-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vinyl chloride	1.8	J	2.0	1.8	ug/L	2			8260C	Total/NA
Carbon dioxide	87000		5000	5000	ug/L	1			RSK-175	Total/NA
Methane	330		88	22	ug/L	22			RSK-175	Total/NA
Iron	5.5		0.050	0.019	mg/L	1			6010C	Total/NA
Magnesium	148		0.20	0.043	mg/L	1			6010C	Total/NA
Manganese	0.42		0.0030	0.00040	mg/L	1			6010C	Total/NA
Potassium	30.9		0.50	0.10	mg/L	1			6010C	Total/NA
Sodium	4710		10.0	3.2	mg/L	10			6010C	Total/NA
Chloride	8250		50.0	28.2	mg/L	100			300.0	Total/NA
Sulfate	715		200	34.9	mg/L	100			300.0	Total/NA
Ammonia	1.6		0.020	0.0090	mg/L	1			350.1	Total/NA
Total Organic Carbon	3.0		1.0	0.43	mg/L	1			9060A	Total/NA
Total Alkalinity	376	^	5.0	0.79	mg/L	1			SM 2320B	Total/NA
Total Alkalinity	382	H	5.0	0.79	mg/L	1			SM 2320B	Total/NA

Client Sample ID: TRIP BLANK 063020

Lab Sample ID: 480-171837-4

No Detections.

Client Sample ID: MW-7-4-2020

Lab Sample ID: 480-171962-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	36000		5000	5000	ug/L	1			RSK-175	Total/NA
Iron	0.25		0.050	0.019	mg/L	1			6010C	Total/NA
Magnesium	35.3		0.20	0.043	mg/L	1			6010C	Total/NA
Manganese	0.012	B	0.0030	0.00040	mg/L	1			6010C	Total/NA
Potassium	2.3		0.50	0.10	mg/L	1			6010C	Total/NA
Sodium	180		1.0	0.32	mg/L	1			6010C	Total/NA
Chloride	264		2.5	1.4	mg/L	5			300.0	Total/NA
Sulfate	53.7		10.0	1.7	mg/L	5			300.0	Total/NA
Nitrate	0.042	J	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	376	F1	5.0	0.79	mg/L	1			SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-1-2020

Lab Sample ID: 480-171962-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	66000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	28		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.094		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	134		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.51	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	969		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2380		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	123		40.0	7.0	mg/L	20		300.0	Total/NA
Total Organic Carbon	1.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	316		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171962-3

No Detections.

Client Sample ID: MW-8-4-2020

Lab Sample ID: 480-171962-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	60		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	9.5		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	17		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	23000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	280		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.47		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	73.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.60	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	13.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2480		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4140		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	369		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.051		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	2.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	269		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TK-6-2020

Lab Sample ID: 480-172007-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	24000		5000	5000	ug/L	1		RSK-175	Total/NA
Magnesium	28.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0010	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	0.82		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	644		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	843		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	183		40.0	7.0	mg/L	20		300.0	Total/NA
Nitrate	0.43		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.7		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	385		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-10-3-2020

Lab Sample ID: 480-172007-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-10-3-2020 (Continued)

Lab Sample ID: 480-172007-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.5		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	13000		5000	5000	ug/L	1		RSK-175	Total/NA
Magnesium	29.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.00096	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	169		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	198		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	171		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.037		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.54		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	181		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK-1

Lab Sample ID: 480-172007-3

No Detections.

Client Sample ID: MW-10-2-2020

Lab Sample ID: 480-172007-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	6.5		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	1.0	J	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	98		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	26000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	140		83	17	ug/L	11		RSK-175	Total/NA
Ethene	310		77	17	ug/L	11		RSK-175	Total/NA
Methane - DL	3200		350	88	ug/L	88		RSK-175	Total/NA
Iron	0.56		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	57.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.24	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	8.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1550		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2410		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	165		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.27		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	4.6		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	346		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	9.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: TRIP BLANK-2

Lab Sample ID: 480-172007-6

No Detections.

Client Sample ID: MW-7-7-2020

Lab Sample ID: 480-172031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	54000		2000	1600	ug/L	2000		8260C	Total/NA
Tetrachloroethene	68000		2000	720	ug/L	2000		8260C	Total/NA
Trichloroethene	6800		2000	920	ug/L	2000		8260C	Total/NA
Vinyl chloride	9600		2000	1800	ug/L	2000		8260C	Total/NA
Carbon dioxide	76000		5000	5000	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-7-2020 (Continued)

Lab Sample ID: 480-172031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethane	40	J	83	17	ug/L	11		RSK-175	Total/NA
Ethene	1300		77	17	ug/L	11		RSK-175	Total/NA
Methane	900		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.049	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	231		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.051		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	43.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1650	B	5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	4030		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	432		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	3.5		0.040	0.018	mg/L	2		350.1	Total/NA
Total Organic Carbon	17.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	316	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	17.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-7-A-6-2020

Lab Sample ID: 480-172031-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	62000		2000	1600	ug/L	2000		8260C	Total/NA
Vinyl chloride	18000		2000	1800	ug/L	2000		8260C	Total/NA
Carbon dioxide	170000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethene	2300		77	17	ug/L	11		RSK-175	Total/NA
Methane	2500		44	11	ug/L	11		RSK-175	Total/NA
Iron	11.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	120		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.8		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	462	B	1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1130		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	47.5		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.053		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
Nitrite	0.026	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	13.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	474		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	1.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-7-6-2020

Lab Sample ID: 480-172031-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	480		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	560		10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	260		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	11		10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	35000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	5.6	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane	240		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	71.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2300	B	10.0	3.2	mg/L	10		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-6-2020 (Continued)

Lab Sample ID: 480-172031-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4990		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	238		100	17.5	mg/L	50		300.0	Total/NA
Nitrate	0.16		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	300		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-8-2020

Lab Sample ID: 480-172156-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	37000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	14		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	8.0		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	94		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	14.8	^	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	201		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.94	^	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	52.7	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2060	^	10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	4580		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	205		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.84		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.074		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.026	J	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	83.2		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-5-2020

Lab Sample ID: 480-172156-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.6		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	48		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	7.4		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	26000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	1.1	^	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	187		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.6	^	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	16.4	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	3220		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	97.8		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	10.9		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate	2.6		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.11		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	11.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	372	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-C-2-2020

Lab Sample ID: 480-172156-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	220		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	28		10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	23000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane - DL	460		44	11	ug/L	11		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-C-2-2020 (Continued)

Lab Sample ID: 480-172156-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.0	^	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	74.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.15	^	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.8	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	135	^	1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	189		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	477		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.37		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	235		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TripBlank

Lab Sample ID: 480-172156-4

No Detections.

Client Sample ID: MW-8-003-B-2020

Lab Sample ID: 480-172221-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1700	J	2000	720	ug/L	2000		8260C	Total/NA
Carbon dioxide	14000		5000	5000	ug/L	1		RSK-175	Total/NA
Iron	0.25		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	24.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.99		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.5		5.0	1.0	mg/L	10		6010C	Total/NA
Sodium	3150		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	5270		50.0	28.2	mg/L	100		300.0	Total/NA
Sulfate	194		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.075		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.41		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	285		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-1-2020

Lab Sample ID: 480-172221-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84	J	1.0	0.81	ug/L	1		8260C	Total/NA
Carbon dioxide	52000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	12		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane	120		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.060		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	120		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	20.9	^ B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	652		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1380	^	10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	822		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	1.2		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrite	0.023	J B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	302		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	5.6		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-2-2020

Lab Sample ID: 480-172221-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	12		10	9.0	ug/L	10		8260C	Total/NA
Trichloroethene	11		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	480		10	9.0	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	4500		80	65	ug/L	80		8260C	Total/NA
Carbon dioxide	24000		5000	5000	ug/L	1		RSK-175	Total/NA
Ethane	2.0	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	2.4	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	190		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.035	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	45.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.029		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	15.5	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	237		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	383	^	2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	160		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.49		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.20		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.10	B F1	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	322		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank 071020

Lab Sample ID: 480-172221-4

No Detections.

Client Sample ID: MW-8-3-2020

Lab Sample ID: 480-172221-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	96000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	330		88	22	ug/L	22		RSK-175	Total/NA
Iron	2.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	60.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	7.9		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	483	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	359		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	2000	^	10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	56.9		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	5.2		0.10	0.045	mg/L	5		350.1	Total/NA
Nitrate	0.094		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	10.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	322		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-9-101-A-2020

Lab Sample ID: 480-172300-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.48	J B	5.0	0.44	ug/L	1		8270D	Total/NA
Carbon dioxide	38000		5000	5000	ug/L	1		RSK-175	Total/NA
Magnesium	145		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.21		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	32.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2000	B	5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3920		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	1290		100	17.5	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-9-101-A-2020 (Continued)

Lab Sample ID: 480-172300-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	1.3		0.050	0.031	mg/L	1		353.2-1993 R2.0	Total/NA
Total Organic Carbon	3.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	239		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-9-12-2020

Lab Sample ID: 480-172300-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.49	J B	5.0	0.44	ug/L	1		8270D	Total/NA
Carbon dioxide	27000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	11		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.18		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	31.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.33		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	617		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1020		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	136		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.018	J	0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.36		0.050	0.031	mg/L	1		353.2-1993 R2.0	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	319		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-P-1-2020

Lab Sample ID: 480-172300-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.8		1.0	0.90	ug/L	1		8260C	Total/NA
Vinyl chloride	1.7		1.0	0.90	ug/L	1		8260C	Total/NA
Carbon dioxide	100000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane - DL	6300		350	88	ug/L	88		RSK-175	Total/NA
Iron	66.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	251		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.5		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	30.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	159		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	2980		25.0	14.1	mg/L	50		300.0	Total/NA
Ammonia	200		2.0	0.90	mg/L	100		350.1	Total/NA
Total Organic Carbon	6.0		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	199		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: BLDG-10-MW-1-2020

Lab Sample ID: 480-172300-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	170000		2000	720	ug/L	2000		8260C	Total/NA
Trichloroethene	5200		2000	920	ug/L	2000		8260C	Total/NA
Carbon dioxide	79000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane	4.6		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	1.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	101		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.62		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	133		1.0	0.32	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: BLDG-10-MW-1-2020 (Continued)

Lab Sample ID: 480-172300-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	614		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	255		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.20		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	3.9		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	302		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: GW-DUP-2020

Lab Sample ID: 480-172300-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2.5		2.0	1.8	ug/L	2		8260C	Total/NA
Vinyl chloride	1.9	J	2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	100000		5000	5000	ug/L	1		RSK-175	Total/NA
Methane - DL	6600		350	88	ug/L	88		RSK-175	Total/NA
Iron	63.8		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	243		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.5		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	29.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	156		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	3080		25.0	14.1	mg/L	50		300.0	Total/NA
Ammonia	193		4.0	1.8	mg/L	200		350.1	Total/NA
Nitrate Nitrite as N	0.035	J	0.050	0.031	mg/L	1		353.2-1993 R2.0	Total/NA
Total Organic Carbon	6.1		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	180		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 480-172300-6

No Detections.

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 480-172300-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-1-2020

Lab Sample ID: 480-171808-1

Date Collected: 06/29/20 11:15

Matrix: Water

Date Received: 06/29/20 15:02

Method: 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			07/01/20 14:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 14:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 14:05	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 14:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		07/01/20 14:05	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/01/20 14:05	1
Toluene-d8 (Surr)	98		80 - 120		07/01/20 14:05	1
Dibromofluoromethane (Surr)	106		75 - 123		07/01/20 14:05	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000		5000	5000	ug/L			07/02/20 17:11	1
Ethane	ND		7.5	1.5	ug/L			07/02/20 21:18	1
Ethene	ND		7.0	1.5	ug/L			07/02/20 21:18	1
Methane	5.2		4.0	1.0	ug/L			07/02/20 21:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.6		0.050	0.019	mg/L		07/01/20 08:50	07/01/20 19:29	1
Magnesium	55.1		0.20	0.043	mg/L		07/01/20 08:50	07/01/20 19:29	1
Manganese	1.3		0.0030	0.00040	mg/L		07/01/20 08:50	07/01/20 19:29	1
Potassium	2.5		0.50	0.10	mg/L		07/01/20 08:50	07/01/20 19:29	1
Sodium	456		1.0	0.32	mg/L		07/01/20 08:50	07/01/20 19:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	966		5.0	2.8	mg/L			07/06/20 17:13	10
Sulfate	49.8		20.0	3.5	mg/L			07/06/20 17:13	10
Ammonia	0.20	B	0.020	0.0090	mg/L			06/30/20 13:20	1
Nitrate	0.076		0.050	0.020	mg/L			06/30/20 15:10	1
Nitrite	ND		0.050	0.020	mg/L			06/30/20 15:10	1
Total Organic Carbon	4.0		1.0	0.43	mg/L			07/02/20 00:05	1
Total Alkalinity	438		5.0	0.79	mg/L			07/09/20 13:34	1
pH	7.0	HF	0.1	0.1	SU			06/30/20 14:15	1
Temperature	20.2	HF	0.001	0.001	Degrees C			06/30/20 14:15	1
Sulfide	ND		1.0	0.67	mg/L			07/02/20 11:40	1

Client Sample ID: MW-6-F-8-2020

Lab Sample ID: 480-171808-2

Date Collected: 06/29/20 12:45

Matrix: Water

Date Received: 06/29/20 15:02

Method: 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			07/01/20 14:28	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/01/20 14:28	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/01/20 14:28	2
Trichloroethene	ND		2.0	0.92	ug/L			07/01/20 14:28	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/01/20 14:28	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-F-8-2020

Lab Sample ID: 480-171808-2

Date Collected: 06/29/20 12:45

Matrix: Water

Date Received: 06/29/20 15:02

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		07/01/20 14:28	2
4-Bromofluorobenzene (Surr)	106		73 - 120		07/01/20 14:28	2
Toluene-d8 (Surr)	101		80 - 120		07/01/20 14:28	2
Dibromofluoromethane (Surr)	111		75 - 123		07/01/20 14:28	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	64000		5000	5000	ug/L			07/02/20 17:19	1
Ethane	ND		7.5	1.5	ug/L			07/02/20 21:37	1
Ethene	ND		7.0	1.5	ug/L			07/02/20 21:37	1
Methane	ND		4.0	1.0	ug/L			07/02/20 21:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.034	J	0.050	0.019	mg/L		07/01/20 08:50	07/01/20 19:33	1
Magnesium	159		0.20	0.043	mg/L		07/01/20 08:50	07/01/20 19:33	1
Manganese	0.28		0.0030	0.00040	mg/L		07/01/20 08:50	07/01/20 19:33	1
Potassium	6.2		0.50	0.10	mg/L		07/01/20 08:50	07/01/20 19:33	1
Sodium	2160		5.0	1.6	mg/L		07/01/20 08:50	07/02/20 09:40	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4050		25.0	14.1	mg/L			07/06/20 17:21	50
Sulfate	359		100	17.5	mg/L			07/06/20 17:21	50
Ammonia	ND		0.020	0.0090	mg/L			06/30/20 13:21	1
Nitrate	0.15		0.050	0.020	mg/L			06/30/20 15:11	1
Nitrite	0.020	J	0.050	0.020	mg/L			06/30/20 15:11	1
Total Organic Carbon	1.2		1.0	0.43	mg/L			07/02/20 00:59	1
Total Alkalinity	363	F1	5.0	0.79	mg/L			07/09/20 13:41	1
pH	7.1	HF	0.1	0.1	SU			06/30/20 14:18	1
Temperature	20.2	HF	0.001	0.001	Degrees C			06/30/20 14:18	1
Sulfide	ND		1.0	0.67	mg/L			07/02/20 11:40	1

Client Sample ID: MW-6-2-2020

Lab Sample ID: 480-171808-3

Date Collected: 06/29/20 14:15

Matrix: Water

Date Received: 06/29/20 15:02

Method: 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			07/01/20 14:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 14:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 14:51	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 14:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		07/01/20 14:51	1
4-Bromofluorobenzene (Surr)	102		73 - 120		07/01/20 14:51	1
Toluene-d8 (Surr)	98		80 - 120		07/01/20 14:51	1
Dibromofluoromethane (Surr)	108		75 - 123		07/01/20 14:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-2-2020

Lab Sample ID: 480-171808-3

Date Collected: 06/29/20 14:15

Matrix: Water

Date Received: 06/29/20 15:02

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	63000		5000	5000	ug/L			07/02/20 17:28	1
Ethane	ND		7.5	1.5	ug/L			07/01/20 00:30	1
Ethene	ND		7.0	1.5	ug/L			07/01/20 00:30	1
Methane	ND		4.0	1.0	ug/L			07/01/20 00:30	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.13		0.050	0.019	mg/L		07/01/20 08:50	07/01/20 19:37	1
Magnesium	56.0		0.20	0.043	mg/L		07/01/20 08:50	07/01/20 19:37	1
Manganese	0.33		0.0030	0.00040	mg/L		07/01/20 08:50	07/01/20 19:37	1
Potassium	4.8		0.50	0.10	mg/L		07/01/20 08:50	07/01/20 19:37	1
Sodium	831		1.0	0.32	mg/L		07/01/20 08:50	07/01/20 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		10.0	5.6	mg/L			07/06/20 17:29	20
Sulfate	110		40.0	7.0	mg/L			07/06/20 17:29	20
Ammonia	ND	F1	0.020	0.0090	mg/L			06/30/20 13:22	1
Nitrate	0.10		0.050	0.020	mg/L			06/30/20 15:12	1
Nitrite	0.028	J	0.050	0.020	mg/L			06/30/20 15:12	1
Total Organic Carbon	2.5		1.0	0.43	mg/L			07/02/20 01:53	1
Total Alkalinity	406		5.0	0.79	mg/L			07/09/20 14:04	1
pH	7.1	HF	0.1	0.1	SU			06/30/20 14:20	1
Temperature	20.3	HF	0.001	0.001	Degrees C			06/30/20 14:20	1
Sulfide	ND		1.0	0.67	mg/L			07/02/20 11:40	1

Client Sample ID: TRIP BLANK 062920

Lab Sample ID: 480-171808-4

Date Collected: 06/29/20 00:00

Matrix: Water

Date Received: 06/29/20 15:02

Method: 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			07/01/20 15:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 15:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 15:14	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 15:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					07/01/20 15:14	1
4-Bromofluorobenzene (Surr)	104		73 - 120					07/01/20 15:14	1
Toluene-d8 (Surr)	104		80 - 120					07/01/20 15:14	1
Dibromofluoromethane (Surr)	109		75 - 123					07/01/20 15:14	1

Client Sample ID: MW-7-2-2020

Lab Sample ID: 480-171837-1

Date Collected: 06/30/20 13:10

Matrix: Water

Date Received: 06/30/20 15:02

Method: 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			07/01/20 22:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-2-2020

Lab Sample ID: 480-171837-1

Date Collected: 06/30/20 13:10

Matrix: Water

Date Received: 06/30/20 15:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 22:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 22:04	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 22:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		07/01/20 22:04	1
4-Bromofluorobenzene (Surr)	83		73 - 120		07/01/20 22:04	1
Toluene-d8 (Surr)	91		80 - 120		07/01/20 22:04	1
Dibromofluoromethane (Surr)	94		75 - 123		07/01/20 22:04	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	35000		5000	5000	ug/L			07/02/20 17:37	1
Ethane	ND		7.5	1.5	ug/L			07/02/20 20:40	1
Ethene	ND		7.0	1.5	ug/L			07/02/20 20:40	1
Methane	ND		4.0	1.0	ug/L			07/02/20 20:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.028	J	0.050	0.019	mg/L		07/02/20 10:00	07/02/20 19:28	1
Magnesium	34.5		0.20	0.043	mg/L		07/02/20 10:00	07/02/20 19:28	1
Manganese	0.012		0.0030	0.00040	mg/L		07/02/20 10:00	07/02/20 19:28	1
Potassium	1.0		0.50	0.10	mg/L		07/02/20 10:00	07/02/20 19:28	1
Sodium	51.6		1.0	0.32	mg/L		07/02/20 10:00	07/02/20 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.7		2.5	1.4	mg/L			07/07/20 13:34	5
Sulfate	20.3		10.0	1.7	mg/L			07/07/20 13:34	5
Ammonia	ND	F1	0.020	0.0090	mg/L			07/01/20 12:46	1
Nitrate	0.022	J	0.050	0.020	mg/L			07/01/20 12:12	1
Nitrite	ND		0.050	0.020	mg/L			07/01/20 12:12	1
Total Organic Carbon	1.7		1.0	0.43	mg/L			07/02/20 02:20	1
Total Alkalinity	347	F1 ^	5.0	0.79	mg/L			07/10/20 01:49	1
Total Alkalinity	349	H	5.0	0.79	mg/L			07/15/20 12:56	1
Sulfide	ND		1.0	0.67	mg/L			07/02/20 11:40	1

Client Sample ID: MW-7-3-2020

Lab Sample ID: 480-171837-2

Date Collected: 06/30/20 14:15

Matrix: Water

Date Received: 06/30/20 15:02

Method: 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			07/01/20 22:29	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/01/20 22:29	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/01/20 22:29	2
Trichloroethene	ND		2.0	0.92	ug/L			07/01/20 22:29	2
Vinyl chloride	1.8	J	2.0	1.8	ug/L			07/01/20 22:29	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-3-2020

Lab Sample ID: 480-171837-2

Date Collected: 06/30/20 14:15

Matrix: Water

Date Received: 06/30/20 15:02

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		07/01/20 22:29	2
4-Bromofluorobenzene (Surr)	80		73 - 120		07/01/20 22:29	2
Toluene-d8 (Surr)	90		80 - 120		07/01/20 22:29	2
Dibromofluoromethane (Surr)	89		75 - 123		07/01/20 22:29	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	87000		5000	5000	ug/L			07/02/20 17:45	1
Ethane	ND		170	33	ug/L			07/02/20 20:59	22
Ethene	ND		150	33	ug/L			07/02/20 20:59	22
Methane	330		88	22	ug/L			07/02/20 20:59	22

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.5		0.050	0.019	mg/L		07/02/20 10:00	07/02/20 19:46	1
Magnesium	148		0.20	0.043	mg/L		07/02/20 10:00	07/02/20 19:46	1
Manganese	0.42		0.0030	0.00040	mg/L		07/02/20 10:00	07/02/20 19:46	1
Potassium	30.9		0.50	0.10	mg/L		07/02/20 10:00	07/02/20 19:46	1
Sodium	4710		10.0	3.2	mg/L		07/02/20 10:00	07/06/20 15:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8250		50.0	28.2	mg/L			07/07/20 13:42	100
Sulfate	715		200	34.9	mg/L			07/07/20 13:42	100
Ammonia	1.6		0.020	0.0090	mg/L			07/01/20 12:48	1
Nitrate	ND		0.050	0.020	mg/L			07/01/20 12:16	1
Nitrite	ND		0.050	0.020	mg/L			07/01/20 12:16	1
Total Organic Carbon	3.0		1.0	0.43	mg/L			07/02/20 03:42	1
Total Alkalinity	376	^	5.0	0.79	mg/L			07/10/20 02:15	1
Total Alkalinity	382	H	5.0	0.79	mg/L			07/15/20 13:03	1
Sulfide	ND		1.0	0.67	mg/L			07/02/20 11:40	1

Client Sample ID: TRIP BLANK 063020

Lab Sample ID: 480-171837-4

Date Collected: 06/30/20 00:00

Matrix: Water

Date Received: 06/30/20 15:02

Method: 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			07/01/20 22:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 22:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 22:54	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 22:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		07/01/20 22:54	1
4-Bromofluorobenzene (Surr)	90		73 - 120		07/01/20 22:54	1
Toluene-d8 (Surr)	95		80 - 120		07/01/20 22:54	1
Dibromofluoromethane (Surr)	94		75 - 123		07/01/20 22:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-4-2020

Lab Sample ID: 480-171962-1

Date Collected: 07/02/20 10:05

Matrix: Water

Date Received: 07/02/20 13:06

Method: 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			07/06/20 16:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/06/20 16:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/06/20 16:39	1
Trichloroethene	ND		1.0	0.46	ug/L			07/06/20 16:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/06/20 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		07/06/20 16:39	1
4-Bromofluorobenzene (Surr)	103		73 - 120		07/06/20 16:39	1
Toluene-d8 (Surr)	94		80 - 120		07/06/20 16:39	1
Dibromofluoromethane (Surr)	104		75 - 123		07/06/20 16:39	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			07/06/20 20:28	1
Ethane	ND		7.5	1.5	ug/L			07/06/20 18:44	1
Ethene	ND		7.0	1.5	ug/L			07/06/20 18:44	1
Methane	ND		4.0	1.0	ug/L			07/06/20 18:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.050	0.019	mg/L		07/07/20 10:15	07/07/20 21:18	1
Magnesium	35.3		0.20	0.043	mg/L		07/07/20 10:15	07/07/20 21:18	1
Manganese	0.012	B	0.0030	0.00040	mg/L		07/07/20 10:15	07/07/20 21:18	1
Potassium	2.3		0.50	0.10	mg/L		07/07/20 10:15	07/07/20 21:18	1
Sodium	180		1.0	0.32	mg/L		07/07/20 10:15	07/07/20 21:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		2.5	1.4	mg/L			07/07/20 15:19	5
Sulfate	53.7		10.0	1.7	mg/L			07/07/20 15:19	5
Ammonia	ND		0.020	0.0090	mg/L			07/06/20 09:21	1
Nitrate	0.042	J	0.050	0.020	mg/L			07/03/20 10:10	1
Nitrite	ND		0.050	0.020	mg/L			07/03/20 10:10	1
Total Organic Carbon	1.2		1.0	0.43	mg/L			07/03/20 22:14	1
Total Alkalinity	376	F1	5.0	0.79	mg/L			07/15/20 17:15	1
Sulfide	ND		1.0	0.67	mg/L			07/06/20 14:33	1

Client Sample ID: MW-7-1-2020

Lab Sample ID: 480-171962-2

Date Collected: 07/02/20 11:15

Matrix: Water

Date Received: 07/02/20 13:06

Method: 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			07/06/20 17:03	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/06/20 17:03	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/06/20 17:03	2
Trichloroethene	ND		2.0	0.92	ug/L			07/06/20 17:03	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/06/20 17:03	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-1-2020

Lab Sample ID: 480-171962-2

Date Collected: 07/02/20 11:15

Matrix: Water

Date Received: 07/02/20 13:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		07/06/20 17:03	2
4-Bromofluorobenzene (Surr)	105		73 - 120		07/06/20 17:03	2
Toluene-d8 (Surr)	93		80 - 120		07/06/20 17:03	2
Dibromofluoromethane (Surr)	103		75 - 123		07/06/20 17:03	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	66000		5000	5000	ug/L			07/06/20 20:36	1
Ethane	ND		7.5	1.5	ug/L			07/07/20 15:27	1
Ethene	ND		7.0	1.5	ug/L			07/07/20 15:27	1
Methane	28		4.0	1.0	ug/L			07/07/20 15:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.094		0.050	0.019	mg/L		07/07/20 10:15	07/07/20 21:22	1
Magnesium	134		0.20	0.043	mg/L		07/07/20 10:15	07/07/20 21:22	1
Manganese	0.51	B	0.0030	0.00040	mg/L		07/07/20 10:15	07/07/20 21:22	1
Potassium	6.3		0.50	0.10	mg/L		07/07/20 10:15	07/07/20 21:22	1
Sodium	969		5.0	1.6	mg/L		07/07/20 10:15	07/08/20 15:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380		25.0	14.1	mg/L			07/08/20 11:19	50
Sulfate	123		40.0	7.0	mg/L			07/07/20 15:28	20
Ammonia	ND		0.020	0.0090	mg/L			07/06/20 09:26	1
Nitrate	ND		0.050	0.020	mg/L			07/03/20 10:11	1
Nitrite	ND		0.050	0.020	mg/L			07/03/20 10:11	1
Total Organic Carbon	1.5		1.0	0.43	mg/L			07/03/20 22:42	1
Total Alkalinity	316		5.0	0.79	mg/L			07/15/20 17:38	1
Sulfide	ND		1.0	0.67	mg/L			07/06/20 14:33	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171962-3

Date Collected: 07/02/20 00:00

Matrix: Water

Date Received: 07/02/20 13:06

Method: 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			07/06/20 17:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/06/20 17:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/06/20 17:27	1
Trichloroethene	ND		1.0	0.46	ug/L			07/06/20 17:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/06/20 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/06/20 17:27	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/06/20 17:27	1
Toluene-d8 (Surr)	92		80 - 120		07/06/20 17:27	1
Dibromofluoromethane (Surr)	112		75 - 123		07/06/20 17:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-4-2020

Lab Sample ID: 480-171962-5

Date Collected: 07/02/20 12:20

Matrix: Water

Date Received: 07/02/20 13:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	60		2.0	1.6	ug/L			07/06/20 17:50	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/06/20 17:50	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/06/20 17:50	2
Trichloroethene	9.5		2.0	0.92	ug/L			07/06/20 17:50	2
Vinyl chloride	17		2.0	1.8	ug/L			07/06/20 17:50	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/06/20 17:50	2
4-Bromofluorobenzene (Surr)	103		73 - 120		07/06/20 17:50	2
Toluene-d8 (Surr)	93		80 - 120		07/06/20 17:50	2
Dibromofluoromethane (Surr)	106		75 - 123		07/06/20 17:50	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	23000		5000	5000	ug/L			07/06/20 20:45	1
Ethane	ND		83	17	ug/L			07/06/20 19:22	11
Ethene	ND		77	17	ug/L			07/06/20 19:22	11
Methane	280		44	11	ug/L			07/06/20 19:22	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.47		0.050	0.019	mg/L		07/07/20 10:15	07/07/20 21:26	1
Magnesium	73.5		0.20	0.043	mg/L		07/07/20 10:15	07/07/20 21:26	1
Manganese	0.60	B	0.0030	0.00040	mg/L		07/07/20 10:15	07/07/20 21:26	1
Potassium	13.6		0.50	0.10	mg/L		07/07/20 10:15	07/07/20 21:26	1
Sodium	2480		5.0	1.6	mg/L		07/07/20 10:15	07/08/20 15:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4140		25.0	14.1	mg/L			07/07/20 15:36	50
Sulfate	369		100	17.5	mg/L			07/07/20 15:36	50
Ammonia	0.051		0.020	0.0090	mg/L			07/06/20 09:27	1
Nitrate	ND		0.050	0.020	mg/L			07/03/20 10:12	1
Nitrite	ND		0.050	0.020	mg/L			07/03/20 10:12	1
Total Organic Carbon	2.2		1.0	0.43	mg/L			07/03/20 23:10	1
Total Alkalinity	269		5.0	0.79	mg/L			07/15/20 17:45	1
Sulfide	ND		1.0	0.67	mg/L			07/06/20 14:33	1

Client Sample ID: TK-6-2020

Lab Sample ID: 480-172007-1

Date Collected: 07/06/20 12:00

Matrix: Water

Date Received: 07/06/20 15:05

Method: 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			07/09/20 11:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/20 11:40	1
trans-1,2-Dichloroethene	ND	F1 F2	1.0	0.90	ug/L			07/09/20 11:40	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/20 11:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/09/20 11:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: TK-6-2020

Lab Sample ID: 480-172007-1

Date Collected: 07/06/20 12:00

Matrix: Water

Date Received: 07/06/20 15:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		07/09/20 11:40	1
4-Bromofluorobenzene (Surr)	108		73 - 120		07/09/20 11:40	1
Toluene-d8 (Surr)	98		80 - 120		07/09/20 11:40	1
Dibromofluoromethane (Surr)	116		75 - 123		07/09/20 11:40	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	24000		5000	5000	ug/L			07/13/20 15:25	1
Ethane	ND		7.5	1.5	ug/L			07/08/20 16:01	1
Ethene	ND		7.0	1.5	ug/L			07/08/20 16:01	1
Methane	ND		4.0	1.0	ug/L			07/08/20 16:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/08/20 10:03	07/09/20 16:09	1
Magnesium	28.3		0.20	0.043	mg/L		07/08/20 10:03	07/09/20 16:09	1
Manganese	0.0010	J B	0.0030	0.00040	mg/L		07/08/20 10:03	07/09/20 16:09	1
Potassium	0.82		0.50	0.10	mg/L		07/08/20 10:03	07/10/20 14:32	1
Sodium	644		1.0	0.32	mg/L		07/08/20 10:03	07/09/20 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	843		10.0	5.6	mg/L			07/08/20 12:00	20
Sulfate	183		40.0	7.0	mg/L			07/08/20 12:00	20
Ammonia	ND	F1	0.020	0.0090	mg/L			07/07/20 13:47	1
Nitrate	0.43		0.050	0.020	mg/L			07/07/20 16:33	1
Nitrite	ND		0.050	0.020	mg/L			07/07/20 16:33	1
Total Organic Carbon	1.7		1.0	0.43	mg/L			07/08/20 10:25	1
Total Alkalinity	385		5.0	0.79	mg/L			07/15/20 20:10	1
Sulfide	ND		1.0	0.67	mg/L			07/13/20 13:07	1

Client Sample ID: MW-10-3-2020

Lab Sample ID: 480-172007-2

Date Collected: 07/06/20 13:15

Matrix: Water

Date Received: 07/06/20 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L			07/09/20 12:03	1
Tetrachloroethene	3.0		1.0	0.36	ug/L			07/09/20 12:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/20 12:03	1
Trichloroethene	3.5		1.0	0.46	ug/L			07/09/20 12:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/09/20 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		77 - 120		07/09/20 12:03	1
4-Bromofluorobenzene (Surr)	108		73 - 120		07/09/20 12:03	1
Toluene-d8 (Surr)	96		80 - 120		07/09/20 12:03	1
Dibromofluoromethane (Surr)	117		75 - 123		07/09/20 12:03	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	13000		5000	5000	ug/L			07/13/20 15:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-10-3-2020

Lab Sample ID: 480-172007-2

Date Collected: 07/06/20 13:15

Matrix: Water

Date Received: 07/06/20 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			07/08/20 17:13	1
Ethene	ND		7.0	1.5	ug/L			07/08/20 17:13	1
Methane	ND		4.0	1.0	ug/L			07/08/20 17:13	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/08/20 10:03	07/09/20 16:39	1
Magnesium	29.4		0.20	0.043	mg/L		07/08/20 10:03	07/09/20 16:39	1
Manganese	0.00096	J B	0.0030	0.00040	mg/L		07/08/20 10:03	07/09/20 16:39	1
Potassium	7.9		0.50	0.10	mg/L		07/08/20 10:03	07/09/20 16:39	1
Sodium	169		1.0	0.32	mg/L		07/08/20 10:03	07/09/20 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		2.5	1.4	mg/L			07/08/20 11:27	5
Sulfate	171		10.0	1.7	mg/L			07/08/20 11:27	5
Ammonia	0.037		0.020	0.0090	mg/L			07/07/20 13:49	1
Nitrate	0.54		0.050	0.020	mg/L			07/07/20 14:58	1
Nitrite	ND		0.050	0.020	mg/L			07/07/20 16:48	1
Total Organic Carbon	1.2		1.0	0.43	mg/L			07/08/20 09:04	1
Total Alkalinity	181		5.0	0.79	mg/L			07/15/20 20:17	1
Sulfide	ND		1.0	0.67	mg/L			07/13/20 13:07	1

Client Sample ID: TRIP BLANK-1

Lab Sample ID: 480-172007-3

Date Collected: 07/06/20 00:00

Matrix: Water

Date Received: 07/06/20 15:05

Method: 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			07/09/20 12:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/20 12:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/20 12:26	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/20 12:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/09/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120		07/09/20 12:26	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/09/20 12:26	1
Toluene-d8 (Surr)	96		80 - 120		07/09/20 12:26	1
Dibromofluoromethane (Surr)	115		75 - 123		07/09/20 12:26	1

Client Sample ID: MW-10-2-2020

Lab Sample ID: 480-172007-4

Date Collected: 07/06/20 14:30

Matrix: Water

Date Received: 07/06/20 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	140		2.0	1.6	ug/L			07/09/20 12:50	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/09/20 12:50	2
trans-1,2-Dichloroethene	6.5		2.0	1.8	ug/L			07/09/20 12:50	2
Trichloroethene	1.0	J	2.0	0.92	ug/L			07/09/20 12:50	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-10-2-2020

Lab Sample ID: 480-172007-4

Date Collected: 07/06/20 14:30

Matrix: Water

Date Received: 07/06/20 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	98		2.0	1.8	ug/L			07/09/20 12:50	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					07/09/20 12:50	2
4-Bromofluorobenzene (Surr)	107		73 - 120					07/09/20 12:50	2
Toluene-d8 (Surr)	96		80 - 120					07/09/20 12:50	2
Dibromofluoromethane (Surr)	120		75 - 123					07/09/20 12:50	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	26000		5000	5000	ug/L			07/13/20 15:59	1
Ethane	140		83	17	ug/L			07/08/20 17:32	11
Ethene	310		77	17	ug/L			07/08/20 17:32	11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	3200		350	88	ug/L			07/09/20 15:24	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.050	0.019	mg/L		07/08/20 10:03	07/09/20 16:43	1
Magnesium	57.8		0.20	0.043	mg/L		07/08/20 10:03	07/09/20 16:43	1
Manganese	0.24	B	0.0030	0.00040	mg/L		07/08/20 10:03	07/09/20 16:43	1
Potassium	8.3		0.50	0.10	mg/L		07/08/20 10:03	07/09/20 16:43	1
Sodium	1550		5.0	1.6	mg/L		07/08/20 10:03	07/15/20 10:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		25.0	14.1	mg/L			07/08/20 11:35	50
Sulfate	165		100	17.5	mg/L			07/08/20 11:35	50
Ammonia	0.27		0.020	0.0090	mg/L			07/07/20 13:50	1
Nitrate	ND		0.050	0.020	mg/L			07/07/20 15:00	1
Nitrite	ND		0.050	0.020	mg/L			07/07/20 15:00	1
Total Organic Carbon	4.6		1.0	0.43	mg/L			07/08/20 11:47	1
Total Alkalinity	346		5.0	0.79	mg/L			07/15/20 20:24	1
Sulfide	9.2		1.0	0.67	mg/L			07/13/20 13:07	1

Client Sample ID: TRIP BLANK-2

Lab Sample ID: 480-172007-6

Date Collected: 07/06/20 00:00

Matrix: Water

Date Received: 07/06/20 15:05

Method: 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			07/09/20 13:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/20 13:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/20 13:13	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/20 13:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/09/20 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120					07/09/20 13:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: TRIP BLANK-2

Date Collected: 07/06/20 00:00

Date Received: 07/06/20 15:05

Lab Sample ID: 480-172007-6

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		73 - 120		07/09/20 13:13	1
Toluene-d8 (Surr)	97		80 - 120		07/09/20 13:13	1
Dibromofluoromethane (Surr)	117		75 - 123		07/09/20 13:13	1

Client Sample ID: MW-7-7-2020

Date Collected: 07/07/20 10:30

Date Received: 07/07/20 14:45

Lab Sample ID: 480-172031-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	54000		2000	1600	ug/L			07/09/20 14:45	2000
Tetrachloroethene	68000		2000	720	ug/L			07/09/20 14:45	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/09/20 14:45	2000
Trichloroethene	6800		2000	920	ug/L			07/09/20 14:45	2000
Vinyl chloride	9600		2000	1800	ug/L			07/09/20 14:45	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120					07/09/20 14:45	2000
4-Bromofluorobenzene (Surr)	106		73 - 120					07/09/20 14:45	2000
Toluene-d8 (Surr)	97		80 - 120					07/09/20 14:45	2000
Dibromofluoromethane (Surr)	119		75 - 123					07/09/20 14:45	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	76000		5000	5000	ug/L			07/13/20 16:08	1
Ethane	40	J	83	17	ug/L			07/08/20 17:51	11
Ethene	1300		77	17	ug/L			07/08/20 17:51	11
Methane	900		44	11	ug/L			07/08/20 17:51	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.049	J	0.050	0.019	mg/L		07/09/20 08:51	07/09/20 21:18	1
Magnesium	231		0.20	0.043	mg/L		07/09/20 08:51	07/09/20 21:18	1
Manganese	0.051		0.0030	0.00040	mg/L		07/09/20 08:51	07/09/20 21:18	1
Potassium	43.6		0.50	0.10	mg/L		07/09/20 08:51	07/09/20 21:18	1
Sodium	1650	B	5.0	1.6	mg/L		07/09/20 08:51	07/10/20 15:09	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		25.0	14.1	mg/L			07/08/20 11:43	50
Sulfate	432		100	17.5	mg/L			07/08/20 11:43	50
Ammonia	3.5		0.040	0.018	mg/L			07/08/20 08:48	2
Nitrate	ND		0.050	0.020	mg/L			07/08/20 13:34	1
Nitrite	ND		0.050	0.020	mg/L			07/08/20 13:34	1
Total Organic Carbon	17.3		1.0	0.43	mg/L			07/09/20 18:53	1
Total Alkalinity	316	F1	5.0	0.79	mg/L			07/15/20 22:22	1
Sulfide	17.6		1.0	0.67	mg/L			07/13/20 13:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-A-6-2020

Lab Sample ID: 480-172031-2

Date Collected: 07/07/20 12:30

Matrix: Water

Date Received: 07/07/20 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	62000		2000	1600	ug/L			07/09/20 15:08	2000
Tetrachloroethene	ND		2000	720	ug/L			07/09/20 15:08	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/09/20 15:08	2000
Trichloroethene	ND		2000	920	ug/L			07/09/20 15:08	2000
Vinyl chloride	18000		2000	1800	ug/L			07/09/20 15:08	2000

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120					07/09/20 15:08	2000
4-Bromofluorobenzene (Surr)	109		73 - 120					07/09/20 15:08	2000
Toluene-d8 (Surr)	96		80 - 120					07/09/20 15:08	2000
Dibromofluoromethane (Surr)	118		75 - 123					07/09/20 15:08	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	170000		5000	5000	ug/L			07/13/20 16:17	1
Ethane	ND		83	17	ug/L			07/08/20 18:10	11
Ethene	2300		77	17	ug/L			07/08/20 18:10	11
Methane	2500		44	11	ug/L			07/08/20 18:10	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11.6		0.050	0.019	mg/L		07/09/20 08:51	07/09/20 21:22	1
Magnesium	120		0.20	0.043	mg/L		07/09/20 08:51	07/09/20 21:22	1
Manganese	1.8		0.0030	0.00040	mg/L		07/09/20 08:51	07/09/20 21:22	1
Potassium	3.2		0.50	0.10	mg/L		07/09/20 08:51	07/09/20 21:22	1
Sodium	462	B	1.0	0.32	mg/L		07/09/20 08:51	07/09/20 21:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		10.0	5.6	mg/L			07/08/20 11:51	20
Sulfate	47.5		40.0	7.0	mg/L			07/08/20 11:51	20
Ammonia	0.053		0.020	0.0090	mg/L			07/08/20 08:44	1
Nitrate	0.058		0.050	0.020	mg/L			07/08/20 16:14	1
Nitrite	0.026	J	0.050	0.020	mg/L			07/08/20 16:14	1
Total Organic Carbon	13.4		1.0	0.43	mg/L			07/08/20 20:05	1
Total Alkalinity	474		5.0	0.79	mg/L			07/15/20 22:45	1
Sulfide	1.6		1.0	0.67	mg/L			07/13/20 13:07	1

Client Sample ID: MW-7-6-2020

Lab Sample ID: 480-172031-3

Date Collected: 07/07/20 13:45

Matrix: Water

Date Received: 07/07/20 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	480		10	8.1	ug/L			07/09/20 15:31	10
Tetrachloroethene	560		10	3.6	ug/L			07/09/20 15:31	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			07/09/20 15:31	10
Trichloroethene	260		10	4.6	ug/L			07/09/20 15:31	10
Vinyl chloride	11		10	9.0	ug/L			07/09/20 15:31	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-6-2020

Lab Sample ID: 480-172031-3

Date Collected: 07/07/20 13:45

Matrix: Water

Date Received: 07/07/20 14:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		07/09/20 15:31	10
4-Bromofluorobenzene (Surr)	108		73 - 120		07/09/20 15:31	10
Toluene-d8 (Surr)	97		80 - 120		07/09/20 15:31	10
Dibromofluoromethane (Surr)	114		75 - 123		07/09/20 15:31	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	35000		5000	5000	ug/L			07/13/20 16:25	1
Ethane	5.6	J	7.5	1.5	ug/L			07/09/20 16:07	1
Ethene	ND		7.0	1.5	ug/L			07/09/20 16:07	1
Methane	240		4.0	1.0	ug/L			07/09/20 16:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.050	0.019	mg/L		07/09/20 08:51	07/09/20 21:25	1
Magnesium	71.2		0.20	0.043	mg/L		07/09/20 08:51	07/09/20 21:25	1
Manganese	0.18		0.0030	0.00040	mg/L		07/09/20 08:51	07/09/20 21:25	1
Potassium	10.8		0.50	0.10	mg/L		07/09/20 08:51	07/09/20 21:25	1
Sodium	2300	B	10.0	3.2	mg/L		07/09/20 08:51	07/10/20 15:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4990		25.0	14.1	mg/L			07/08/20 12:40	50
Sulfate	238		100	17.5	mg/L			07/08/20 12:40	50
Ammonia	ND		0.020	0.0090	mg/L			07/08/20 08:45	1
Nitrate	0.16		0.050	0.020	mg/L			07/08/20 16:15	1
Nitrite	ND		0.050	0.020	mg/L			07/08/20 16:15	1
Total Organic Carbon	2.0		1.0	0.43	mg/L			07/08/20 21:01	1
Total Alkalinity	300		5.0	0.79	mg/L			07/15/20 22:52	1
Sulfide	ND		1.0	0.67	mg/L			07/13/20 13:07	1

Client Sample ID: MW-7-8-2020

Lab Sample ID: 480-172156-1

Date Collected: 07/09/20 08:15

Matrix: Water

Date Received: 07/09/20 13:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2000	1600	ug/L			07/13/20 15:06	2000
Tetrachloroethene	ND		2000	720	ug/L			07/13/20 15:06	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/13/20 15:06	2000
Trichloroethene	ND		2000	920	ug/L			07/13/20 15:06	2000
Vinyl chloride	ND		2000	1800	ug/L			07/13/20 15:06	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		07/13/20 15:06	2000
4-Bromofluorobenzene (Surr)	112		73 - 120		07/13/20 15:06	2000
Toluene-d8 (Surr)	96		80 - 120		07/13/20 15:06	2000
Dibromofluoromethane (Surr)	121		75 - 123		07/13/20 15:06	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	37000		5000	5000	ug/L			07/13/20 13:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-8-2020

Lab Sample ID: 480-172156-1

Date Collected: 07/09/20 08:15

Matrix: Water

Date Received: 07/09/20 13:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	14		7.5	1.5	ug/L			07/15/20 23:23	1
Ethene	8.0		7.0	1.5	ug/L			07/15/20 23:23	1
Methane	94		4.0	1.0	ug/L			07/15/20 23:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14.8	^	0.050	0.019	mg/L		07/13/20 07:29	07/14/20 21:26	1
Magnesium	201		0.20	0.043	mg/L		07/13/20 07:29	07/14/20 21:26	1
Manganese	0.94	^	0.0030	0.00040	mg/L		07/13/20 07:29	07/14/20 21:26	1
Potassium	52.7	B	0.50	0.10	mg/L		07/13/20 07:29	07/14/20 21:26	1
Sodium	2060	^	10.0	3.2	mg/L		07/13/20 07:29	07/15/20 15:11	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4580		25.0	14.1	mg/L			07/13/20 15:44	50
Sulfate	205		100	17.5	mg/L			07/13/20 15:44	50
Ammonia	0.84		0.020	0.0090	mg/L			07/10/20 07:42	1
Nitrate	0.074		0.050	0.020	mg/L			07/09/20 21:49	1
Nitrite	0.026	J	0.050	0.020	mg/L			07/09/20 21:49	1
Total Organic Carbon	1.3		1.0	0.43	mg/L			07/12/20 09:19	1
Total Alkalinity	83.2		5.0	0.79	mg/L			07/16/20 13:09	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: MW-7-5-2020

Lab Sample ID: 480-172156-2

Date Collected: 07/09/20 09:45

Matrix: Water

Date Received: 07/09/20 13:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	5.6		1.0	0.81	ug/L			07/14/20 15:51	1
Tetrachloroethene	48		1.0	0.36	ug/L			07/14/20 15:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/20 15:51	1
Trichloroethene	7.4		1.0	0.46	ug/L			07/14/20 15:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/20 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		07/14/20 15:51	1
4-Bromofluorobenzene (Surr)	97		73 - 120		07/14/20 15:51	1
Toluene-d8 (Surr)	95		80 - 120		07/14/20 15:51	1
Dibromofluoromethane (Surr)	94		75 - 123		07/14/20 15:51	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	26000		5000	5000	ug/L			07/13/20 13:49	1
Ethane	ND		7.5	1.5	ug/L			07/15/20 16:28	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 16:28	1
Methane	ND		4.0	1.0	ug/L			07/15/20 16:28	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1	^	0.050	0.019	mg/L		07/13/20 07:29	07/14/20 21:41	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-5-2020

Lab Sample ID: 480-172156-2

Date Collected: 07/09/20 09:45

Matrix: Water

Date Received: 07/09/20 13:23

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	187		0.20	0.043	mg/L		07/13/20 07:29	07/14/20 21:41	1
Manganese	1.6	^	0.0030	0.00040	mg/L		07/13/20 07:29	07/14/20 21:41	1
Potassium	16.4	B	0.50	0.10	mg/L		07/13/20 07:29	07/14/20 21:41	1
Sodium	3220		10.0	3.2	mg/L		07/13/20 07:29	07/15/20 15:26	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.8		2.5	1.4	mg/L			07/13/20 15:52	5
Sulfate	10.9		10.0	1.7	mg/L			07/13/20 15:52	5
Ammonia	ND		0.020	0.0090	mg/L			07/10/20 07:43	1
Nitrate	2.6		0.050	0.020	mg/L			07/09/20 21:50	1
Nitrite	0.11		0.050	0.020	mg/L			07/09/20 21:50	1
Total Organic Carbon	11.3		1.0	0.43	mg/L			07/12/20 09:46	1
Total Alkalinity	372	F1	5.0	0.79	mg/L			07/16/20 13:17	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: MW-7-C-2-2020

Lab Sample ID: 480-172156-3

Date Collected: 07/09/20 10:55

Matrix: Water

Date Received: 07/09/20 13:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	220		10	8.1	ug/L			07/13/20 15:53	10
Tetrachloroethene	ND		10	3.6	ug/L			07/13/20 15:53	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			07/13/20 15:53	10
Trichloroethene	ND		10	4.6	ug/L			07/13/20 15:53	10
Vinyl chloride	28		10	9.0	ug/L			07/13/20 15:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		07/13/20 15:53	10
4-Bromofluorobenzene (Surr)	113		73 - 120		07/13/20 15:53	10
Toluene-d8 (Surr)	95		80 - 120		07/13/20 15:53	10
Dibromofluoromethane (Surr)	118		75 - 123		07/13/20 15:53	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	23000		5000	5000	ug/L			07/13/20 13:58	1
Ethane	ND		7.5	1.5	ug/L			07/15/20 16:47	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	460		44	11	ug/L			07/15/20 23:42	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.0	^	0.050	0.019	mg/L		07/13/20 07:29	07/14/20 21:45	1
Magnesium	74.2		0.20	0.043	mg/L		07/13/20 07:29	07/14/20 21:45	1
Manganese	0.15	^	0.0030	0.00040	mg/L		07/13/20 07:29	07/14/20 21:45	1
Potassium	7.8	B	0.50	0.10	mg/L		07/13/20 07:29	07/14/20 21:45	1
Sodium	135	^	1.0	0.32	mg/L		07/13/20 07:29	07/14/20 21:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-C-2-2020

Lab Sample ID: 480-172156-3

Date Collected: 07/09/20 10:55

Matrix: Water

Date Received: 07/09/20 13:23

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.0	2.8	mg/L			07/13/20 16:33	10
Sulfate	477		20.0	3.5	mg/L			07/13/20 16:33	10
Ammonia	0.37		0.020	0.0090	mg/L			07/10/20 07:43	1
Nitrate	ND		0.050	0.020	mg/L			07/09/20 19:08	1
Nitrite	ND		0.050	0.020	mg/L			07/09/20 19:08	1
Total Organic Carbon	1.5		1.0	0.43	mg/L			07/12/20 10:13	1
Total Alkalinity	235		5.0	0.79	mg/L			07/16/20 13:42	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: TripBlank

Lab Sample ID: 480-172156-4

Date Collected: 07/09/20 00:00

Matrix: Water

Date Received: 07/09/20 13:23

Method: 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			07/13/20 16:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/13/20 16:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/13/20 16:16	1
Trichloroethene	ND		1.0	0.46	ug/L			07/13/20 16:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/13/20 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120					07/13/20 16:16	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 120					07/13/20 16:16	1
4-Bromofluorobenzene (Surr)	116		73 - 120					07/13/20 16:16	1
Dibromofluoromethane (Surr)	115		75 - 123					07/13/20 16:16	1

Client Sample ID: MW-8-003-B-2020

Lab Sample ID: 480-172221-1

Date Collected: 07/10/20 08:30

Matrix: Water

Date Received: 07/10/20 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2000	1600	ug/L			07/13/20 16:40	2000
Tetrachloroethene	1700	J	2000	720	ug/L			07/13/20 16:40	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/13/20 16:40	2000
Trichloroethene	ND		2000	920	ug/L			07/13/20 16:40	2000
Vinyl chloride	ND		2000	1800	ug/L			07/13/20 16:40	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120					07/13/20 16:40	2000
4-Bromofluorobenzene (Surr)	113		73 - 120					07/13/20 16:40	2000
Toluene-d8 (Surr)	98		80 - 120					07/13/20 16:40	2000
Dibromofluoromethane (Surr)	118		75 - 123					07/13/20 16:40	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	14000		5000	5000	ug/L			07/15/20 14:52	1
Ethane	ND		7.5	1.5	ug/L			07/16/20 00:01	1
Ethene	ND		7.0	1.5	ug/L			07/16/20 00:01	1
Methane	ND		4.0	1.0	ug/L			07/16/20 00:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-003-B-2020

Lab Sample ID: 480-172221-1

Date Collected: 07/10/20 08:30

Matrix: Water

Date Received: 07/10/20 14:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.25		0.050	0.019	mg/L		07/14/20 10:05	07/15/20 15:52	1
Magnesium	24.0		0.20	0.043	mg/L		07/14/20 10:05	07/15/20 15:52	1
Manganese	0.99		0.0030	0.00040	mg/L		07/14/20 10:05	07/15/20 15:52	1
Potassium	6.5		5.0	1.0	mg/L		07/14/20 10:05	07/16/20 16:46	10
Sodium	3150		10.0	3.2	mg/L		07/14/20 10:05	07/16/20 16:46	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5270		50.0	28.2	mg/L			07/17/20 22:22	100
Sulfate	194		10.0	1.7	mg/L			07/14/20 13:52	5
Ammonia	0.075		0.020	0.0090	mg/L			07/14/20 10:10	1
Nitrate	0.41		0.050	0.020	mg/L			07/11/20 11:31	1
Nitrite	ND		0.050	0.020	mg/L			07/11/20 12:03	1
Total Organic Carbon	2.0		1.0	0.43	mg/L			07/15/20 02:10	1
Total Alkalinity	285		5.0	0.79	mg/L			07/16/20 14:53	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: MW-8-1-2020

Lab Sample ID: 480-172221-2

Date Collected: 07/10/20 10:50

Matrix: Water

Date Received: 07/10/20 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.84	J	1.0	0.81	ug/L			07/14/20 16:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/20 16:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/20 16:16	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/20 16:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/20 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		07/14/20 16:16	1
4-Bromofluorobenzene (Surr)	96		73 - 120		07/14/20 16:16	1
Toluene-d8 (Surr)	95		80 - 120		07/14/20 16:16	1
Dibromofluoromethane (Surr)	99		75 - 123		07/14/20 16:16	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	52000		5000	5000	ug/L			07/15/20 15:01	1
Ethane	12		7.5	1.5	ug/L			07/15/20 17:44	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 17:44	1
Methane	120		4.0	1.0	ug/L			07/15/20 17:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.060		0.050	0.019	mg/L		07/14/20 10:05	07/15/20 15:56	1
Magnesium	120		0.20	0.043	mg/L		07/14/20 10:05	07/15/20 15:56	1
Manganese	0.11		0.0030	0.00040	mg/L		07/14/20 10:05	07/15/20 15:56	1
Potassium	20.9	^ B	0.50	0.10	mg/L		07/14/20 10:05	07/15/20 15:56	1
Sodium	652		1.0	0.32	mg/L		07/14/20 10:05	07/15/20 15:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-1-2020

Lab Sample ID: 480-172221-2

Date Collected: 07/10/20 10:50

Matrix: Water

Date Received: 07/10/20 14:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380	^	10.0	5.6	mg/L			07/14/20 14:00	20
Sulfate	822		40.0	7.0	mg/L			07/14/20 14:00	20
Ammonia	1.2		0.020	0.0090	mg/L			07/14/20 10:11	1
Nitrate	ND		0.050	0.020	mg/L			07/11/20 11:32	1
Nitrite	0.023	J B	0.050	0.020	mg/L			07/11/20 12:04	1
Total Organic Carbon	1.0		1.0	0.43	mg/L			07/15/20 03:05	1
Total Alkalinity	302		5.0	0.79	mg/L			07/16/20 15:01	1
Sulfide	5.6		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: MW-8-2-2020

Lab Sample ID: 480-172221-3

Date Collected: 07/10/20 11:55

Matrix: Water

Date Received: 07/10/20 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		10	3.6	ug/L			07/13/20 17:26	10
trans-1,2-Dichloroethene	12		10	9.0	ug/L			07/13/20 17:26	10
Trichloroethene	11		10	4.6	ug/L			07/13/20 17:26	10
Vinyl chloride	480		10	9.0	ug/L			07/13/20 17:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		07/13/20 17:26	10
4-Bromofluorobenzene (Surr)	114		73 - 120		07/13/20 17:26	10
Toluene-d8 (Surr)	97		80 - 120		07/13/20 17:26	10
Dibromofluoromethane (Surr)	120		75 - 123		07/13/20 17:26	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	4500		80	65	ug/L			07/14/20 16:40	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		07/14/20 16:40	80
4-Bromofluorobenzene (Surr)	97		73 - 120		07/14/20 16:40	80
Toluene-d8 (Surr)	95		80 - 120		07/14/20 16:40	80
Dibromofluoromethane (Surr)	95		75 - 123		07/14/20 16:40	80

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	24000		5000	5000	ug/L			07/15/20 15:10	1
Ethane	2.0	J	7.5	1.5	ug/L			07/15/20 18:03	1
Ethene	2.4	J	7.0	1.5	ug/L			07/15/20 18:03	1
Methane	190		4.0	1.0	ug/L			07/15/20 18:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.035	J	0.050	0.019	mg/L		07/14/20 10:05	07/15/20 16:11	1
Magnesium	45.4		0.20	0.043	mg/L		07/14/20 10:05	07/15/20 16:11	1
Manganese	0.029		0.0030	0.00040	mg/L		07/14/20 10:05	07/15/20 16:11	1
Potassium	15.5	B	0.50	0.10	mg/L		07/14/20 10:05	07/15/20 16:11	1
Sodium	237		1.0	0.32	mg/L		07/14/20 10:05	07/15/20 16:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-2-2020

Lab Sample ID: 480-172221-3

Date Collected: 07/10/20 11:55

Matrix: Water

Date Received: 07/10/20 14:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383	^	2.5	1.4	mg/L			07/14/20 14:08	5
Sulfate	160		10.0	1.7	mg/L			07/14/20 14:08	5
Ammonia	0.49		0.020	0.0090	mg/L			07/14/20 10:12	1
Nitrate	0.20		0.050	0.020	mg/L			07/11/20 11:33	1
Nitrite	0.10	B F1	0.050	0.020	mg/L			07/11/20 12:05	1
Total Organic Carbon	1.5		1.0	0.43	mg/L			07/15/20 03:32	1
Total Alkalinity	322		5.0	0.79	mg/L			07/16/20 15:08	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: Trip Blank 071020

Lab Sample ID: 480-172221-4

Date Collected: 07/10/20 00:00

Matrix: Water

Date Received: 07/10/20 14:30

Method: 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			07/14/20 13:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/20 13:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/20 13:20	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/20 13:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/20 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		80 - 120		07/14/20 13:20	1
1,2-Dichloroethane-d4 (Surr)	86		77 - 120		07/14/20 13:20	1
4-Bromofluorobenzene (Surr)	81		73 - 120		07/14/20 13:20	1
Dibromofluoromethane (Surr)	87		75 - 123		07/14/20 13:20	1

Client Sample ID: MW-8-3-2020

Lab Sample ID: 480-172221-5

Date Collected: 07/10/20 12:20

Matrix: Water

Date Received: 07/10/20 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2000	1600	ug/L			07/13/20 17:50	2000
Tetrachloroethene	ND		2000	720	ug/L			07/13/20 17:50	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/13/20 17:50	2000
Trichloroethene	ND		2000	920	ug/L			07/13/20 17:50	2000
Vinyl chloride	ND		2000	1800	ug/L			07/13/20 17:50	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		07/13/20 17:50	2000
4-Bromofluorobenzene (Surr)	112		73 - 120		07/13/20 17:50	2000
Toluene-d8 (Surr)	97		80 - 120		07/13/20 17:50	2000
Dibromofluoromethane (Surr)	119		75 - 123		07/13/20 17:50	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	96000		5000	5000	ug/L			07/15/20 15:18	1
Ethane	ND		170	33	ug/L			07/15/20 18:22	22
Ethene	ND		150	33	ug/L			07/15/20 18:22	22
Methane	330		88	22	ug/L			07/15/20 18:22	22

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-3-2020

Lab Sample ID: 480-172221-5

Date Collected: 07/10/20 12:20

Matrix: Water

Date Received: 07/10/20 14:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.050	0.019	mg/L		07/14/20 10:05	07/15/20 16:15	1
Magnesium	60.3		0.20	0.043	mg/L		07/14/20 10:05	07/15/20 16:15	1
Manganese	7.9		0.0030	0.00040	mg/L		07/14/20 10:05	07/15/20 16:15	1
Potassium	483	B	0.50	0.10	mg/L		07/14/20 10:05	07/15/20 16:15	1
Sodium	359		1.0	0.32	mg/L		07/14/20 10:05	07/15/20 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000	^	10.0	5.6	mg/L			07/14/20 14:16	20
Sulfate	56.9		40.0	7.0	mg/L			07/14/20 14:16	20
Ammonia	5.2		0.10	0.045	mg/L			07/14/20 10:55	5
Nitrate	0.094		0.050	0.020	mg/L			07/11/20 11:34	1
Nitrite	ND		0.050	0.020	mg/L			07/11/20 12:06	1
Total Organic Carbon	10.4		1.0	0.43	mg/L			07/15/20 04:00	1
Total Alkalinity	322		5.0	0.79	mg/L			07/16/20 15:15	1
Sulfide	ND		1.0	0.67	mg/L			07/14/20 13:30	1

Client Sample ID: MW-9-101-A-2020

Lab Sample ID: 480-172300-1

Date Collected: 07/13/20 10:25

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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			07/20/20 13:07	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/20/20 13:07	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/20/20 13:07	2
Trichloroethene	ND		2.0	0.92	ug/L			07/20/20 13:07	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/20/20 13:07	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		07/20/20 13:07	2
4-Bromofluorobenzene (Surr)	110		73 - 120		07/20/20 13:07	2
Toluene-d8 (Surr)	104		80 - 120		07/20/20 13:07	2
Dibromofluoromethane (Surr)	111		75 - 123		07/20/20 13:07	2

Method: 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		07/15/20 09:00	07/20/20 00:50	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/15/20 09:00	07/20/20 00:50	1
Anthracene	ND		5.0	0.28	ug/L		07/15/20 09:00	07/20/20 00:50	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/20/20 00:50	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/20/20 00:50	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/20/20 00:50	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/15/20 09:00	07/20/20 00:50	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/15/20 09:00	07/20/20 00:50	1
Chrysene	ND		5.0	0.33	ug/L		07/15/20 09:00	07/20/20 00:50	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/15/20 09:00	07/20/20 00:50	1
Fluoranthene	ND		5.0	0.40	ug/L		07/15/20 09:00	07/20/20 00:50	1
Fluorene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/20/20 00:50	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/20/20 00:50	1
Naphthalene	ND		5.0	0.76	ug/L		07/15/20 09:00	07/20/20 00:50	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-9-101-A-2020

Lab Sample ID: 480-172300-1

Date Collected: 07/13/20 10:25

Matrix: Water

Date Received: 07/13/20 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.48	J B	5.0	0.44	ug/L		07/15/20 09:00	07/20/20 00:50	1
Pyrene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/20/20 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		48 - 120				07/15/20 09:00	07/20/20 00:50	1
Nitrobenzene-d5 (Surr)	81		46 - 120				07/15/20 09:00	07/20/20 00:50	1
p-Terphenyl-d14 (Surr)	87		60 - 148				07/15/20 09:00	07/20/20 00:50	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	38000		5000	5000	ug/L			07/15/20 14:09	1
Ethane	ND		7.5	1.5	ug/L			07/16/20 13:04	1
Ethene	ND		7.0	1.5	ug/L			07/16/20 13:04	1
Methane	ND		4.0	1.0	ug/L			07/16/20 13:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 03:32	1
Magnesium	145		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 03:32	1
Manganese	0.21		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 03:32	1
Potassium	32.4		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 03:32	1
Sodium	2000	B	5.0	1.6	mg/L		07/16/20 10:08	07/17/20 16:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3920		25.0	14.1	mg/L			07/14/20 23:29	50
Sulfate	1290		100	17.5	mg/L			07/14/20 23:29	50
Ammonia	ND		0.020	0.0090	mg/L			07/15/20 08:08	1
Nitrate Nitrite as N	1.3		0.050	0.031	mg/L			07/20/20 18:23	1
Total Organic Carbon	3.3		1.0	0.43	mg/L			07/16/20 05:26	1
Total Alkalinity	239		5.0	0.79	mg/L			07/16/20 15:58	1
Sulfide	ND		1.0	0.67	mg/L			07/19/20 12:45	1

Client Sample ID: MW-9-12-2020

Lab Sample ID: 480-172300-2

Date Collected: 07/13/20 11:30

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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			07/20/20 13:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/20/20 13:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/20/20 13:30	1
Trichloroethene	ND		1.0	0.46	ug/L			07/20/20 13:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/20/20 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					07/20/20 13:30	1
4-Bromofluorobenzene (Surr)	109		73 - 120					07/20/20 13:30	1
Toluene-d8 (Surr)	105		80 - 120					07/20/20 13:30	1
Dibromofluoromethane (Surr)	111		75 - 123					07/20/20 13:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-9-12-2020

Lab Sample ID: 480-172300-2

Date Collected: 07/13/20 11:30

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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		07/15/20 09:00	07/20/20 18:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/15/20 09:00	07/20/20 18:28	1
Anthracene	ND		5.0	0.28	ug/L		07/15/20 09:00	07/20/20 18:28	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/20/20 18:28	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/20/20 18:28	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/20/20 18:28	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/15/20 09:00	07/20/20 18:28	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/15/20 09:00	07/20/20 18:28	1
Chrysene	ND		5.0	0.33	ug/L		07/15/20 09:00	07/20/20 18:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/15/20 09:00	07/20/20 18:28	1
Fluoranthene	ND		5.0	0.40	ug/L		07/15/20 09:00	07/20/20 18:28	1
Fluorene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/20/20 18:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/20/20 18:28	1
Naphthalene	ND		5.0	0.76	ug/L		07/15/20 09:00	07/20/20 18:28	1
Phenanthrene	0.49	J B	5.0	0.44	ug/L		07/15/20 09:00	07/20/20 18:28	1
Pyrene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/20/20 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		48 - 120				07/15/20 09:00	07/20/20 18:28	1
Nitrobenzene-d5 (Surr)	83		46 - 120				07/15/20 09:00	07/20/20 18:28	1
p-Terphenyl-d14 (Surr)	98		60 - 148				07/15/20 09:00	07/20/20 18:28	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	27000		5000	5000	ug/L			07/15/20 14:18	1
Ethane	ND		7.5	1.5	ug/L			07/15/20 18:59	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 18:59	1
Methane	11		4.0	1.0	ug/L			07/15/20 18:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.18		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 03:36	1
Magnesium	31.8		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 03:36	1
Manganese	0.33		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 03:36	1
Potassium	5.2		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 03:36	1
Sodium	617		1.0	0.32	mg/L		07/16/20 10:08	07/17/20 03:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		10.0	5.6	mg/L			07/17/20 20:29	20
Sulfate	136		20.0	3.5	mg/L			07/14/20 23:43	10
Ammonia	0.018	J	0.020	0.0090	mg/L			07/15/20 08:09	1
Nitrate Nitrite as N	0.36		0.050	0.031	mg/L			07/20/20 18:25	1
Total Organic Carbon	1.3		1.0	0.43	mg/L			07/16/20 05:58	1
Total Alkalinity	319		5.0	0.79	mg/L			07/16/20 16:06	1
Sulfide	ND		1.0	0.67	mg/L			07/19/20 12:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-P-1-2020

Lab Sample ID: 480-172300-3

Date Collected: 07/13/20 13:00

Matrix: Water

Date Received: 07/13/20 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L			07/20/20 13:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/20/20 13:53	1
trans-1,2-Dichloroethene	2.8		1.0	0.90	ug/L			07/20/20 13:53	1
Trichloroethene	ND		1.0	0.46	ug/L			07/20/20 13:53	1
Vinyl chloride	1.7		1.0	0.90	ug/L			07/20/20 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		07/20/20 13:53	1
4-Bromofluorobenzene (Surr)	111		73 - 120		07/20/20 13:53	1
Toluene-d8 (Surr)	101		80 - 120		07/20/20 13:53	1
Dibromofluoromethane (Surr)	119		75 - 123		07/20/20 13:53	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	100000		5000	5000	ug/L			07/15/20 14:26	1
Ethane	ND		83	17	ug/L			07/15/20 19:18	11
Ethene	ND		77	17	ug/L			07/15/20 19:18	11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	6300		350	88	ug/L			07/16/20 13:23	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	66.3		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 03:52	1
Magnesium	251		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 03:52	1
Manganese	3.5		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 03:52	1
Potassium	30.1		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 03:52	1
Sodium	159		1.0	0.32	mg/L		07/16/20 10:08	07/17/20 03:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		25.0	14.1	mg/L			07/14/20 23:57	50
Sulfate	ND		100	17.5	mg/L			07/14/20 23:57	50
Ammonia	200		2.0	0.90	mg/L			07/15/20 08:18	100
Nitrate Nitrite as N	ND		0.050	0.031	mg/L			07/20/20 18:28	1
Total Organic Carbon	6.0		1.0	0.43	mg/L			07/16/20 06:29	1
Total Alkalinity	199		5.0	0.79	mg/L			07/16/20 16:14	1
Sulfide	ND		1.0	0.67	mg/L			07/19/20 12:45	1

Client Sample ID: BLDG-10-MW-1-2020

Lab Sample ID: 480-172300-4

Date Collected: 07/13/20 14:40

Matrix: Water

Date Received: 07/13/20 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2000	1600	ug/L			07/20/20 14:16	2000
Tetrachloroethene	170000		2000	720	ug/L			07/20/20 14:16	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			07/20/20 14:16	2000
Trichloroethene	5200		2000	920	ug/L			07/20/20 14:16	2000
Vinyl chloride	ND		2000	1800	ug/L			07/20/20 14:16	2000

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: BLDG-10-MW-1-2020

Lab Sample ID: 480-172300-4

Date Collected: 07/13/20 14:40

Matrix: Water

Date Received: 07/13/20 15:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		07/20/20 14:16	2000
4-Bromofluorobenzene (Surr)	102		73 - 120		07/20/20 14:16	2000
Toluene-d8 (Surr)	97		80 - 120		07/20/20 14:16	2000
Dibromofluoromethane (Surr)	115		75 - 123		07/20/20 14:16	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	79000		5000	5000	ug/L			07/15/20 14:35	1
Ethane	ND		7.5	1.5	ug/L			07/16/20 13:42	1
Ethene	ND		7.0	1.5	ug/L			07/16/20 13:42	1
Methane	4.6		4.0	1.0	ug/L			07/16/20 13:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.3		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 03:56	1
Magnesium	101		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 03:56	1
Manganese	0.62		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 03:56	1
Potassium	5.1		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 03:56	1
Sodium	133		1.0	0.32	mg/L		07/16/20 10:08	07/17/20 03:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	614		5.0	2.8	mg/L			07/15/20 00:11	10
Sulfate	255		20.0	3.5	mg/L			07/15/20 00:11	10
Ammonia	0.20		0.020	0.0090	mg/L			07/15/20 08:12	1
Nitrate Nitrite as N	ND		0.050	0.031	mg/L			07/20/20 18:29	1
Total Organic Carbon	3.9		1.0	0.43	mg/L			07/16/20 09:02	1
Total Alkalinity	302		5.0	0.79	mg/L			07/16/20 16:21	1
Sulfide	ND		1.0	0.67	mg/L			07/19/20 12:45	1

Client Sample ID: GW-DUP-2020

Lab Sample ID: 480-172300-5

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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			07/22/20 13:33	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/22/20 13:33	2
trans-1,2-Dichloroethene	2.5		2.0	1.8	ug/L			07/22/20 13:33	2
Trichloroethene	ND		2.0	0.92	ug/L			07/22/20 13:33	2
Vinyl chloride	1.9 J		2.0	1.8	ug/L			07/22/20 13:33	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		07/22/20 13:33	2
4-Bromofluorobenzene (Surr)	99		73 - 120		07/22/20 13:33	2
Toluene-d8 (Surr)	100		80 - 120		07/22/20 13:33	2
Dibromofluoromethane (Surr)	98		75 - 123		07/22/20 13:33	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	100000		5000	5000	ug/L			07/15/20 14:44	1
Ethane	ND		83	17	ug/L			07/15/20 19:56	11

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: GW-DUP-2020

Lab Sample ID: 480-172300-5

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		77	17	ug/L			07/15/20 19:56	11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	6600		350	88	ug/L			07/16/20 14:01	88

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	63.8		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 04:00	1
Magnesium	243		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 04:00	1
Manganese	3.5		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 04:00	1
Potassium	29.4		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 04:00	1
Sodium	156		1.0	0.32	mg/L		07/16/20 10:08	07/17/20 04:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3080		25.0	14.1	mg/L			07/14/20 23:15	50
Sulfate	ND		100	17.5	mg/L			07/14/20 23:15	50
Ammonia	193		4.0	1.8	mg/L			07/15/20 08:25	200
Nitrate Nitrite as N	0.035	J	0.050	0.031	mg/L			07/20/20 18:30	1
Total Organic Carbon	6.1		1.0	0.43	mg/L			07/16/20 10:04	1
Total Alkalinity	180		5.0	0.79	mg/L			07/16/20 16:29	1
Sulfide	ND		1.0	0.67	mg/L			07/19/20 12:45	1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 480-172300-6

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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			07/19/20 11:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/19/20 11:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/19/20 11:41	1
Trichloroethene	ND		1.0	0.46	ug/L			07/19/20 11:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/19/20 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		07/19/20 11:41	1
4-Bromofluorobenzene (Surr)	110		73 - 120		07/19/20 11:41	1
Toluene-d8 (Surr)	103		80 - 120		07/19/20 11:41	1
Dibromofluoromethane (Surr)	118		75 - 123		07/19/20 11:41	1

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 480-172300-7

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Method: 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			07/19/20 12:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/19/20 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/19/20 12:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 480-172300-7

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.46	ug/L			07/19/20 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/19/20 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					07/19/20 12:04	1
4-Bromofluorobenzene (Surr)	104		73 - 120					07/19/20 12:04	1
Toluene-d8 (Surr)	103		80 - 120					07/19/20 12:04	1
Dibromofluoromethane (Surr)	113		75 - 123					07/19/20 12:04	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
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)
480-171808-1	MW-6-1-2020	97	106	98	106
480-171808-2	MW-6-F-8-2020	99	106	101	111
480-171808-3	MW-6-2-2020	97	102	98	108
480-171808-4	TRIP BLANK 062920	104	104	104	109
480-171837-1	MW-7-2-2020	94	83	91	94
480-171837-2	MW-7-3-2020	89	80	90	89
480-171837-4	TRIP BLANK 063020	94	90	95	94
480-171962-1	MW-7-4-2020	94	103	94	104
480-171962-2	MW-7-1-2020	94	105	93	103
480-171962-3	TRIP BLANK	96	106	92	112
480-171962-5	MW-8-4-2020	96	103	93	106
480-172007-1	TK-6-2020	114	108	98	116
480-172007-1 MS	TK-6-2020	102	110	99	108
480-172007-1 MSD	TK-6-2020	103	112	97	110
480-172007-2	MW-10-3-2020	120	108	96	117
480-172007-3	TRIP BLANK-1	118	106	96	115
480-172007-4	MW-10-2-2020	115	107	96	120
480-172007-6	TRIP BLANK-2	118	107	97	117
480-172031-1	MW-7-7-2020	118	106	97	119
480-172031-2	MW-7-A-6-2020	116	109	96	118
480-172031-3	MW-7-6-2020	115	108	97	114
480-172156-1	MW-7-8-2020	116	112	96	121
480-172156-2	MW-7-5-2020	100	97	95	94
480-172156-3	MW-7-C-2-2020	115	113	95	118
480-172156-3 MS	MW-7-C-2-2020	114	115	98	117
480-172156-3 MSD	MW-7-C-2-2020	118	117	95	119
480-172156-4	TripBlank	112	116	99	115
480-172221-1	MW-8-003-B-2020	119	113	98	118
480-172221-2	MW-8-1-2020	104	96	95	99
480-172221-3	MW-8-2-2020	116	114	97	120
480-172221-3 - DL	MW-8-2-2020	98	97	95	95
480-172221-4	Trip Blank 071020	86	81	86	87
480-172221-5	MW-8-3-2020	116	112	97	119
480-172300-1	MW-9-101-A-2020	102	110	104	111
480-172300-2	MW-9-12-2020	104	109	105	111
480-172300-3	MW-7-P-1-2020	108	111	101	119
480-172300-4	BLDG-10-MW-1-2020	110	102	97	115
480-172300-5	GW-DUP-2020	99	99	100	98
480-172300-6	TRIP BLANK 1	107	110	103	118
480-172300-7	TRIP BLANK 2	103	104	103	113
LCS 480-538818/5	Lab Control Sample	95	105	102	102
LCS 480-538888/5	Lab Control Sample	89	88	94	93
LCS 480-539228/6	Lab Control Sample	88	101	95	94
LCS 480-539745/5	Lab Control Sample	112	111	96	114
LCS 480-540161/6	Lab Control Sample	110	116	98	116
LCS 480-540282/6	Lab Control Sample	87	96	95	88
LCS 480-540303/6	Lab Control Sample	98	102	99	96
LCS 480-541047/5	Lab Control Sample	95	116	105	105
LCS 480-541134/4	Lab Control Sample	100	112	102	111

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
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 480-541461/5	Lab Control Sample	100	102	100	101
MB 480-538818/7	Method Blank	101	104	98	106
MB 480-538888/8	Method Blank	90	97	96	92
MB 480-539228/8	Method Blank	99	114	96	120
MB 480-539745/7	Method Blank	116	107	96	116
MB 480-540161/8	Method Blank	115	112	97	117
MB 480-540282/8	Method Blank	86	86	90	87
MB 480-540303/8	Method Blank	99	98	96	92
MB 480-541047/7	Method Blank	94	104	101	108
MB 480-541134/6	Method Blank	104	106	99	111
MB 480-541461/7	Method Blank	101	100	100	99

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)
480-172300-1	MW-9-101-A-2020	96	81	87
480-172300-2	MW-9-12-2020	97	83	98
LCS 480-540460/2-A	Lab Control Sample	106	103	111
LCSD 480-540460/3-A	Lab Control Sample Dup	106	104	109
MB 480-540460/1-A	Method Blank	102	91	120

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 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-538818/7

Matrix: Water

Analysis Batch: 538818

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			07/01/20 09:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 09:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 09:59	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 09:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 09:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		07/01/20 09:59	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/01/20 09:59	1
4-Bromofluorobenzene (Surr)	104		73 - 120		07/01/20 09:59	1
Dibromofluoromethane (Surr)	106		75 - 123		07/01/20 09:59	1

Lab Sample ID: LCS 480-538818/5

Matrix: Water

Analysis Batch: 538818

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	27.4		ug/L		110	74 - 124
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
Trichloroethene	25.0	24.2		ug/L		97	74 - 123
Vinyl chloride	25.0	29.2		ug/L		117	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: MB 480-538888/8

Matrix: Water

Analysis Batch: 538888

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			07/01/20 13:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 13:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 13:42	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 13:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/01/20 13:42	1
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		07/01/20 13:42	1
4-Bromofluorobenzene (Surr)	97		73 - 120		07/01/20 13:42	1
Dibromofluoromethane (Surr)	92		75 - 123		07/01/20 13:42	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: LCS 480-538888/5

Matrix: Water

Analysis Batch: 538888

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	23.1		ug/L		92	74 - 124
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	89		77 - 120
4-Bromofluorobenzene (Surr)	88		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Lab Sample ID: MB 480-539228/8

Matrix: Water

Analysis Batch: 539228

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			07/06/20 11:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/06/20 11:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/06/20 11:10	1
Trichloroethene	ND		1.0	0.46	ug/L			07/06/20 11:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/06/20 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/06/20 11:10	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		07/06/20 11:10	1
4-Bromofluorobenzene (Surr)	114		73 - 120		07/06/20 11:10	1
Dibromofluoromethane (Surr)	120		75 - 123		07/06/20 11:10	1

Lab Sample ID: LCS 480-539228/6

Matrix: Water

Analysis Batch: 539228

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	23.2		ug/L		93	74 - 124
Tetrachloroethene	25.0	24.4		ug/L		97	74 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
Trichloroethene	25.0	21.6		ug/L		86	74 - 123
Vinyl chloride	25.0	22.8		ug/L		91	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	88		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-539745/7

Matrix: Water

Analysis Batch: 539745

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			07/09/20 11:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/20 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/20 11:06	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/20 11:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/09/20 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/09/20 11:06	1
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		07/09/20 11:06	1
4-Bromofluorobenzene (Surr)	107		73 - 120		07/09/20 11:06	1
Dibromofluoromethane (Surr)	116		75 - 123		07/09/20 11:06	1

Lab Sample ID: LCS 480-539745/5

Matrix: Water

Analysis Batch: 539745

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	24.4		ug/L		98	74 - 124
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Vinyl chloride	25.0	26.1		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	111		73 - 120
Dibromofluoromethane (Surr)	114		75 - 123

Lab Sample ID: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539745

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		25.0	23.5		ug/L		94	74 - 124
Tetrachloroethene	ND		25.0	27.0		ug/L		108	74 - 122
trans-1,2-Dichloroethene	ND	F1 F2	25.0	10.4	F1	ug/L		42	73 - 127
Trichloroethene	ND		25.0	24.5		ug/L		98	74 - 123
Vinyl chloride	ND		25.0	27.7		ug/L		111	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539745

Client Sample ID: TK-6-2020

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	ND		25.0	24.8		ug/L		99	74 - 124	5	15
Tetrachloroethene	ND		25.0	27.7		ug/L		111	74 - 122	3	20
trans-1,2-Dichloroethene	ND	F1 F2	25.0	16.4	F1 F2	ug/L		66	73 - 127	45	20
Trichloroethene	ND		25.0	25.1		ug/L		101	74 - 123	2	16
Vinyl chloride	ND		25.0	31.1		ug/L		124	65 - 133	12	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	110		75 - 123

Lab Sample ID: MB 480-540161/8

Matrix: Water

Analysis Batch: 540161

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			07/13/20 12:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/13/20 12:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/13/20 12:15	1
Trichloroethene	ND		1.0	0.46	ug/L			07/13/20 12:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/13/20 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		07/13/20 12:15	1
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		07/13/20 12:15	1
4-Bromofluorobenzene (Surr)	112		73 - 120		07/13/20 12:15	1
Dibromofluoromethane (Surr)	117		75 - 123		07/13/20 12:15	1

Lab Sample ID: LCS 480-540161/6

Matrix: Water

Analysis Batch: 540161

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	28.2		ug/L		113	74 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
Trichloroethene	25.0	25.1		ug/L		101	74 - 123
Vinyl chloride	25.0	28.3		ug/L		113	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	116		75 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: 480-172156-3 MS

Matrix: Water

Analysis Batch: 540161

Client Sample ID: MW-7-C-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	220		250	438		ug/L		89	74 - 124
Tetrachloroethene	ND		250	282		ug/L		113	74 - 122
trans-1,2-Dichloroethene	ND		250	248		ug/L		99	73 - 127
Trichloroethene	ND		250	253		ug/L		101	74 - 123
Vinyl chloride	28		250	312		ug/L		114	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	114		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	117		75 - 123

Lab Sample ID: 480-172156-3 MSD

Matrix: Water

Analysis Batch: 540161

Client Sample ID: MW-7-C-2-2020

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	220		250	442		ug/L		90	74 - 124	1	15
Tetrachloroethene	ND		250	273		ug/L		109	74 - 122	3	20
trans-1,2-Dichloroethene	ND		250	241		ug/L		96	73 - 127	3	20
Trichloroethene	ND		250	249		ug/L		100	74 - 123	2	16
Vinyl chloride	28		250	319		ug/L		117	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	118		77 - 120
4-Bromofluorobenzene (Surr)	117		73 - 120
Dibromofluoromethane (Surr)	119		75 - 123

Lab Sample ID: MB 480-540282/8

Matrix: Water

Analysis Batch: 540282

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			07/14/20 11:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/20 11:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/20 11:50	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/20 11:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/20 11:50	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		07/14/20 11:50	1
1,2-Dichloroethane-d4 (Surr)	86		77 - 120		07/14/20 11:50	1
4-Bromofluorobenzene (Surr)	86		73 - 120		07/14/20 11:50	1
Dibromofluoromethane (Surr)	87		75 - 123		07/14/20 11:50	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: LCS 480-540282/6

Matrix: Water

Analysis Batch: 540282

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	21.8		ug/L		87	74 - 124
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
trans-1,2-Dichloroethene	25.0	21.6		ug/L		86	73 - 127
Trichloroethene	25.0	21.6		ug/L		86	74 - 123
Vinyl chloride	25.0	25.4		ug/L		102	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	87		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	88		75 - 123

Lab Sample ID: MB 480-540303/8

Matrix: Water

Analysis Batch: 540303

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			07/14/20 13:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/20 13:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/20 13:16	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/20 13:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/20 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		07/14/20 13:16	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		07/14/20 13:16	1
4-Bromofluorobenzene (Surr)	98		73 - 120		07/14/20 13:16	1
Dibromofluoromethane (Surr)	92		75 - 123		07/14/20 13:16	1

Lab Sample ID: LCS 480-540303/6

Matrix: Water

Analysis Batch: 540303

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	25.8		ug/L		103	74 - 124
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-541047/7

Matrix: Water

Analysis Batch: 541047

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			07/19/20 11:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/19/20 11:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/19/20 11:07	1
Trichloroethene	ND		1.0	0.46	ug/L			07/19/20 11:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/19/20 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		07/19/20 11:07	1
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		07/19/20 11:07	1
4-Bromofluorobenzene (Surr)	104		73 - 120		07/19/20 11:07	1
Dibromofluoromethane (Surr)	108		75 - 123		07/19/20 11:07	1

Lab Sample ID: LCS 480-541047/5

Matrix: Water

Analysis Batch: 541047

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	26.3		ug/L		105	74 - 124
Tetrachloroethene	25.0	27.3		ug/L		109	74 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Vinyl chloride	25.0	22.5		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: MB 480-541134/6

Matrix: Water

Analysis Batch: 541134

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			07/20/20 12:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/20/20 12:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/20/20 12:07	1
Trichloroethene	ND		1.0	0.46	ug/L			07/20/20 12:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/20/20 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		07/20/20 12:07	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		07/20/20 12:07	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/20/20 12:07	1
Dibromofluoromethane (Surr)	111		75 - 123		07/20/20 12:07	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: LCS 480-541134/4

Matrix: Water

Analysis Batch: 541134

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	27.6		ug/L		111	74 - 124
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Vinyl chloride	25.0	21.9		ug/L		88	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Dibromofluoromethane (Surr)	111		75 - 123

Lab Sample ID: MB 480-541461/7

Matrix: Water

Analysis Batch: 541461

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			07/22/20 10:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/22/20 10:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/22/20 10:37	1
Trichloroethene	ND		1.0	0.46	ug/L			07/22/20 10:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/22/20 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		07/22/20 10:37	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/22/20 10:37	1
4-Bromofluorobenzene (Surr)	100		73 - 120		07/22/20 10:37	1
Dibromofluoromethane (Surr)	99		75 - 123		07/22/20 10:37	1

Lab Sample ID: LCS 480-541461/5

Matrix: Water

Analysis Batch: 541461

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	25.6		ug/L		102	74 - 124
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	73 - 127
Trichloroethene	25.0	25.9		ug/L		103	74 - 123
Vinyl chloride	25.0	22.6		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-540460/1-A

Matrix: Water

Analysis Batch: 541066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 540460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		07/15/20 09:00	07/19/20 17:34	1
Acenaphthylene	ND		5.0	0.38	ug/L		07/15/20 09:00	07/19/20 17:34	1
Anthracene	ND		5.0	0.28	ug/L		07/15/20 09:00	07/19/20 17:34	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/19/20 17:34	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/19/20 17:34	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/19/20 17:34	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		07/15/20 09:00	07/19/20 17:34	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		07/15/20 09:00	07/19/20 17:34	1
Chrysene	ND		5.0	0.33	ug/L		07/15/20 09:00	07/19/20 17:34	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		07/15/20 09:00	07/19/20 17:34	1
Fluoranthene	ND		5.0	0.40	ug/L		07/15/20 09:00	07/19/20 17:34	1
Fluorene	ND		5.0	0.36	ug/L		07/15/20 09:00	07/19/20 17:34	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		07/15/20 09:00	07/19/20 17:34	1
Naphthalene	ND		5.0	0.76	ug/L		07/15/20 09:00	07/19/20 17:34	1
Phenanthrene	0.557	J	5.0	0.44	ug/L		07/15/20 09:00	07/19/20 17:34	1
Pyrene	ND		5.0	0.34	ug/L		07/15/20 09:00	07/19/20 17:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		48 - 120	07/15/20 09:00	07/19/20 17:34	1
Nitrobenzene-d5 (Surr)	91		46 - 120	07/15/20 09:00	07/19/20 17:34	1
p-Terphenyl-d14 (Surr)	120		60 - 148	07/15/20 09:00	07/19/20 17:34	1

Lab Sample ID: LCS 480-540460/2-A

Matrix: Water

Analysis Batch: 541066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 540460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	34.6		ug/L		108	60 - 120
Acenaphthylene	32.0	34.5		ug/L		108	63 - 120
Anthracene	32.0	36.2		ug/L		113	67 - 120
Benzo[a]anthracene	32.0	34.6		ug/L		108	70 - 121
Benzo[a]pyrene	32.0	37.9		ug/L		118	60 - 123
Benzo[b]fluoranthene	32.0	37.1		ug/L		116	66 - 126
Benzo[g,h,i]perylene	32.0	37.5		ug/L		117	66 - 150
Benzo[k]fluoranthene	32.0	38.0		ug/L		119	65 - 124
Chrysene	32.0	35.1		ug/L		110	69 - 120
Dibenz(a,h)anthracene	32.0	38.5		ug/L		120	65 - 135
Fluoranthene	32.0	37.4		ug/L		117	69 - 126
Fluorene	32.0	35.8		ug/L		112	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	38.5		ug/L		120	69 - 146
Naphthalene	32.0	32.0		ug/L		100	57 - 120
Phenanthrene	32.0	36.2		ug/L		113	68 - 120
Pyrene	32.0	36.0		ug/L		112	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	106		48 - 120
Nitrobenzene-d5 (Surr)	103		46 - 120
p-Terphenyl-d14 (Surr)	111		60 - 148

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: LCSD 480-540460/3-A

Matrix: Water

Analysis Batch: 541066

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 540460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	33.9		ug/L		106	60 - 120	2	24
Acenaphthylene	32.0	34.8		ug/L		109	63 - 120	1	18
Anthracene	32.0	35.6		ug/L		111	67 - 120	2	15
Benzo[a]anthracene	32.0	34.5		ug/L		108	70 - 121	0	15
Benzo[a]pyrene	32.0	37.4		ug/L		117	60 - 123	1	15
Benzo[b]fluoranthene	32.0	37.1		ug/L		116	66 - 126	0	15
Benzo[g,h,i]perylene	32.0	38.1		ug/L		119	66 - 150	1	15
Benzo[k]fluoranthene	32.0	37.5		ug/L		117	65 - 124	1	22
Chrysene	32.0	34.4		ug/L		108	69 - 120	2	15
Dibenz(a,h)anthracene	32.0	38.4		ug/L		120	65 - 135	0	15
Fluoranthene	32.0	37.0		ug/L		116	69 - 126	1	15
Fluorene	32.0	35.9		ug/L		112	66 - 120	0	15
Indeno[1,2,3-cd]pyrene	32.0	38.0		ug/L		119	69 - 146	1	15
Naphthalene	32.0	32.4		ug/L		101	57 - 120	1	29
Phenanthrene	32.0	35.6		ug/L		111	68 - 120	2	15
Pyrene	32.0	34.5		ug/L		108	70 - 125	4	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	106		48 - 120
Nitrobenzene-d5 (Surr)	104		46 - 120
p-Terphenyl-d14 (Surr)	109		60 - 148

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-156441/5

Matrix: Water

Analysis Batch: 156441

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			07/02/20 16:36	1

Lab Sample ID: LCS 200-156441/3

Matrix: Water

Analysis Batch: 156441

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	37800		ug/L		95	70 - 130

Lab Sample ID: LCSD 200-156441/4

Matrix: Water

Analysis Batch: 156441

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	35800		ug/L		89	70 - 130	6	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 200-156494/4
Matrix: Water
Analysis Batch: 156494

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			07/06/20 20:19	1

Lab Sample ID: LCS 200-156494/2
Matrix: Water
Analysis Batch: 156494

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	34000		ug/L		85	70 - 130

Lab Sample ID: LCSD 200-156494/3
Matrix: Water
Analysis Batch: 156494

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	36700		ug/L		92	70 - 130	8	30

Lab Sample ID: MB 200-156758/5
Matrix: Water
Analysis Batch: 156758

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			07/13/20 13:31	1

Lab Sample ID: LCS 200-156758/3
Matrix: Water
Analysis Batch: 156758

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	36500		ug/L		91	70 - 130

Lab Sample ID: LCSD 200-156758/4
Matrix: Water
Analysis Batch: 156758

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	34700		ug/L		87	70 - 130	5	30

Lab Sample ID: 480-172007-1 MS
Matrix: Water
Analysis Batch: 156758

Client Sample ID: TK-6-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	24000		40000	60800		ug/L		93	70 - 130

Lab Sample ID: 480-172007-1 MSD
Matrix: Water
Analysis Batch: 156758

Client Sample ID: TK-6-2020
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	24000		40000	69200		ug/L		114	70 - 130	13	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-156860/5
Matrix: Water
Analysis Batch: 156860

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			07/15/20 14:00	1

Lab Sample ID: LCS 200-156860/3
Matrix: Water
Analysis Batch: 156860

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	33900		ug/L		85	70 - 130

Lab Sample ID: LCSD 200-156860/4
Matrix: Water
Analysis Batch: 156860

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	39300		ug/L		98	70 - 130	15	30

Lab Sample ID: MB 480-538739/27
Matrix: Water
Analysis Batch: 538739

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			06/30/20 21:59	1
Ethene	ND		7.0	1.5	ug/L			06/30/20 21:59	1
Methane	ND		4.0	1.0	ug/L			06/30/20 21:59	1

Lab Sample ID: LCS 480-538739/28
Matrix: Water
Analysis Batch: 538739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	37.0		ug/L		100	79 - 120
Ethene	33.7	32.3		ug/L		96	85 - 120
Methane	19.2	17.9		ug/L		93	85 - 120

Lab Sample ID: LCSD 480-538739/29
Matrix: Water
Analysis Batch: 538739

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	36.8	37.0		ug/L		100	79 - 120	0	50
Ethene	33.7	31.0		ug/L		92	85 - 120	4	50
Methane	19.2	17.8		ug/L		92	85 - 120	1	50

Lab Sample ID: MB 480-539136/3
Matrix: Water
Analysis Batch: 539136

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			07/02/20 16:11	1
Ethene	ND		7.0	1.5	ug/L			07/02/20 16:11	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-539136/3

Matrix: Water

Analysis Batch: 539136

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			07/02/20 16:11	1

Lab Sample ID: LCS 480-539136/4

Matrix: Water

Analysis Batch: 539136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	33.9		ug/L		92	79 - 120
Ethene	33.7	32.0		ug/L		95	85 - 120
Methane	19.2	17.6		ug/L		91	85 - 120

Lab Sample ID: LCSD 480-539136/5

Matrix: Water

Analysis Batch: 539136

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	36.8	35.1		ug/L		95	79 - 120	4	50
Ethene	33.7	33.2		ug/L		98	85 - 120	3	50
Methane	19.2	18.2		ug/L		94	85 - 120	3	50

Lab Sample ID: MB 480-539332/3

Matrix: Water

Analysis Batch: 539332

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			07/06/20 13:54	1
Ethene	ND		7.0	1.5	ug/L			07/06/20 13:54	1
Methane	ND		4.0	1.0	ug/L			07/06/20 13:54	1

Lab Sample ID: LCS 480-539332/4

Matrix: Water

Analysis Batch: 539332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.5		ug/L		94	79 - 120
Ethene	33.7	33.7		ug/L		100	85 - 120
Methane	19.2	18.3		ug/L		95	85 - 120

Lab Sample ID: LCSD 480-539332/5

Matrix: Water

Analysis Batch: 539332

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	36.8	36.5		ug/L		99	79 - 120	6	50
Ethene	33.7	35.3		ug/L		105	85 - 120	4	50
Methane	19.2	19.3		ug/L		100	85 - 120	5	50

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: MB 480-539485/3

Matrix: Water

Analysis Batch: 539485

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			07/07/20 12:18	1
Ethene	ND		7.0	1.5	ug/L			07/07/20 12:18	1
Methane	ND		4.0	1.0	ug/L			07/07/20 12:18	1

Lab Sample ID: LCS 480-539485/4

Matrix: Water

Analysis Batch: 539485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	38.4		ug/L		104	79 - 120
Ethene	33.7	36.9		ug/L		109	85 - 120
Methane	19.2	19.9		ug/L		104	85 - 120

Lab Sample ID: LCSD 480-539485/5

Matrix: Water

Analysis Batch: 539485

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	36.8	37.8		ug/L		103	79 - 120	1	50
Ethene	33.7	36.7		ug/L		109	85 - 120	0	50
Methane	19.2	19.6		ug/L		102	85 - 120	1	50

Lab Sample ID: MB 480-539667/6

Matrix: Water

Analysis Batch: 539667

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			07/08/20 14:22	1
Ethene	ND		7.0	1.5	ug/L			07/08/20 14:22	1
Methane	ND		4.0	1.0	ug/L			07/08/20 14:22	1

Lab Sample ID: LCS 480-539667/7

Matrix: Water

Analysis Batch: 539667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	36.4		ug/L		99	79 - 120
Ethene	33.7	35.0		ug/L		104	85 - 120
Methane	19.2	19.0		ug/L		99	85 - 120

Lab Sample ID: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539667

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	ND		36.8	37.0		ug/L		101	76 - 125
Ethene	ND		33.7	36.6		ug/L		108	75 - 129
Methane	ND		19.2	18.9		ug/L		98	38 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539667

Client Sample ID: TK-6-2020

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		36.8	36.7		ug/L		100	76 - 125	1	50
Ethene	ND		33.7	35.5		ug/L		105	75 - 129	3	50
Methane	ND		19.2	18.6		ug/L		97	38 - 150	2	50

Lab Sample ID: MB 480-539857/3

Matrix: Water

Analysis Batch: 539857

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			07/09/20 14:06	1
Ethene	ND		7.0	1.5	ug/L			07/09/20 14:06	1
Methane	ND		4.0	1.0	ug/L			07/09/20 14:06	1

Lab Sample ID: LCS 480-539857/4

Matrix: Water

Analysis Batch: 539857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	37.3		ug/L		102	79 - 120
Ethene	33.7	36.0		ug/L		107	85 - 120
Methane	19.2	19.2		ug/L		100	85 - 120

Lab Sample ID: LCSD 480-539857/5

Matrix: Water

Analysis Batch: 539857

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	36.8	37.4		ug/L		102	79 - 120	0	50
Ethene	33.7	35.8		ug/L		106	85 - 120	0	50
Methane	19.2	19.4		ug/L		101	85 - 120	1	50

Lab Sample ID: MB 480-540533/30

Matrix: Water

Analysis Batch: 540533

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			07/15/20 21:11	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 21:11	1
Methane	ND		4.0	1.0	ug/L			07/15/20 21:11	1

Lab Sample ID: MB 480-540533/6

Matrix: Water

Analysis Batch: 540533

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			07/15/20 13:27	1
Ethene	ND		7.0	1.5	ug/L			07/15/20 13:27	1
Methane	ND		4.0	1.0	ug/L			07/15/20 13:27	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

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

Lab Sample ID: LCS 480-540533/31

Matrix: Water

Analysis Batch: 540533

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	34.8		ug/L		95	79 - 120
Ethene	33.7	34.1		ug/L		101	85 - 120
Methane	19.2	18.2		ug/L		94	85 - 120

Lab Sample ID: LCS 480-540533/7

Matrix: Water

Analysis Batch: 540533

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	36.2		ug/L		98	79 - 120
Ethene	33.7	34.7		ug/L		103	85 - 120
Methane	19.2	18.7		ug/L		97	85 - 120

Lab Sample ID: LCSD 480-540533/32

Matrix: Water

Analysis Batch: 540533

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	36.8	35.0		ug/L		95	79 - 120	1	50
Ethene	33.7	34.2		ug/L		101	85 - 120	0	50
Methane	19.2	18.3		ug/L		95	85 - 120	0	50

Lab Sample ID: MB 480-540701/3

Matrix: Water

Analysis Batch: 540701

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			07/16/20 11:30	1
Ethene	ND		7.0	1.5	ug/L			07/16/20 11:30	1
Methane	ND		4.0	1.0	ug/L			07/16/20 11:30	1

Lab Sample ID: LCS 480-540701/4

Matrix: Water

Analysis Batch: 540701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	36.8	39.7		ug/L		108	79 - 120
Ethene	33.7	38.0		ug/L		113	85 - 120
Methane	19.2	20.4		ug/L		106	85 - 120

Lab Sample ID: LCSD 480-540701/5

Matrix: Water

Analysis Batch: 540701

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	36.8	36.4		ug/L		99	79 - 120	9	50
Ethene	33.7	35.5		ug/L		105	85 - 120	7	50
Methane	19.2	18.7		ug/L		97	85 - 120	8	50

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-538780/1-A
Matrix: Water
Analysis Batch: 539015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 538780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/01/20 08:50	07/01/20 17:41	1
Magnesium	ND		0.20	0.043	mg/L		07/01/20 08:50	07/01/20 17:41	1
Manganese	ND		0.0030	0.00040	mg/L		07/01/20 08:50	07/01/20 17:41	1
Potassium	ND		0.50	0.10	mg/L		07/01/20 08:50	07/01/20 17:41	1
Sodium	ND		1.0	0.32	mg/L		07/01/20 08:50	07/01/20 17:41	1

Lab Sample ID: LCS 480-538780/2-A
Matrix: Water
Analysis Batch: 539015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 538780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.67		mg/L		97	80 - 120
Magnesium	10.0	9.88		mg/L		99	80 - 120
Manganese	0.200	0.198		mg/L		99	80 - 120
Potassium	10.0	9.96		mg/L		100	80 - 120
Sodium	10.0	9.78		mg/L		98	80 - 120

Lab Sample ID: MB 480-539037/1-A
Matrix: Water
Analysis Batch: 539260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/02/20 10:00	07/02/20 19:21	1
Magnesium	ND		0.20	0.043	mg/L		07/02/20 10:00	07/02/20 19:21	1
Manganese	ND		0.0030	0.00040	mg/L		07/02/20 10:00	07/02/20 19:21	1
Potassium	ND		0.50	0.10	mg/L		07/02/20 10:00	07/02/20 19:21	1
Sodium	ND		1.0	0.32	mg/L		07/02/20 10:00	07/02/20 19:21	1

Lab Sample ID: LCS 480-539037/2-A
Matrix: Water
Analysis Batch: 539260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.90		mg/L		99	80 - 120
Magnesium	10.0	10.03		mg/L		100	80 - 120
Manganese	0.200	0.199		mg/L		100	80 - 120
Potassium	10.0	9.97		mg/L		100	80 - 120
Sodium	10.0	9.83		mg/L		98	80 - 120

Lab Sample ID: 480-171837-1 MS
Matrix: Water
Analysis Batch: 539260

Client Sample ID: MW-7-2-2020
Prep Type: Total/NA
Prep Batch: 539037

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.028	J	10.0	9.84		mg/L		98	75 - 125
Magnesium	34.5		10.0	44.95		mg/L		105	75 - 125
Manganese	0.012		0.200	0.209		mg/L		99	75 - 125
Potassium	1.0		10.0	11.35		mg/L		103	75 - 125
Sodium	51.6		10.0	63.00	4	mg/L		113	75 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-171837-1 MSD

Matrix: Water

Analysis Batch: 539260

Client Sample ID: MW-7-2-2020

Prep Type: Total/NA

Prep Batch: 539037

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.028	J	10.0	9.87		mg/L		98	75 - 125	0	20
Magnesium	34.5		10.0	44.51		mg/L		101	75 - 125	1	20
Manganese	0.012		0.200	0.209		mg/L		99	75 - 125	0	20
Potassium	1.0		10.0	11.31		mg/L		103	75 - 125	0	20
Sodium	51.6		10.0	62.27	4	mg/L		106	75 - 125	1	20

Lab Sample ID: MB 480-539342/1-A

Matrix: Water

Analysis Batch: 539597

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/07/20 10:15	07/07/20 20:15	1
Magnesium	ND		0.20	0.043	mg/L		07/07/20 10:15	07/07/20 20:15	1
Manganese	0.000660	J	0.0030	0.00040	mg/L		07/07/20 10:15	07/07/20 20:15	1
Potassium	ND		0.50	0.10	mg/L		07/07/20 10:15	07/07/20 20:15	1
Sodium	ND		1.0	0.32	mg/L		07/07/20 10:15	07/07/20 20:15	1

Lab Sample ID: LCS 480-539342/2-A

Matrix: Water

Analysis Batch: 539597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 539342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.98		mg/L		100	80 - 120
Magnesium	10.0	9.97		mg/L		100	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Potassium	10.0	9.96		mg/L		100	80 - 120
Sodium	10.0	10.10		mg/L		101	80 - 120

Lab Sample ID: LCSD 480-539342/20-A

Matrix: Water

Analysis Batch: 539597

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 539342

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	9.80		mg/L		98	80 - 120	2	20
Magnesium	10.0	9.82		mg/L		98	80 - 120	1	20
Manganese	0.200	0.200		mg/L		100	80 - 120	1	20
Potassium	10.0	9.95		mg/L		99	80 - 120	0	20
Sodium	10.0	9.98		mg/L		100	80 - 120	1	20

Lab Sample ID: MB 480-539591/1-A

Matrix: Water

Analysis Batch: 539959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/08/20 10:03	07/09/20 16:02	1
Magnesium	ND		0.20	0.043	mg/L		07/08/20 10:03	07/09/20 16:02	1
Manganese	0.000530	J	0.0030	0.00040	mg/L		07/08/20 10:03	07/09/20 16:02	1
Sodium	ND		1.0	0.32	mg/L		07/08/20 10:03	07/09/20 16:02	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-539591/1-A
Matrix: Water
Analysis Batch: 540188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		07/08/20 10:03	07/10/20 14:24	1

Lab Sample ID: LCS 480-539591/2-A
Matrix: Water
Analysis Batch: 539959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.21		mg/L		102	80 - 120
Magnesium	10.0	10.00		mg/L		100	80 - 120
Manganese	0.200	0.203		mg/L		101	80 - 120
Sodium	10.0	10.30		mg/L		103	80 - 120

Lab Sample ID: LCS 480-539591/2-A
Matrix: Water
Analysis Batch: 540188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.04		mg/L		100	80 - 120

Lab Sample ID: 480-172007-1 MS
Matrix: Water
Analysis Batch: 539959

Client Sample ID: TK-6-2020
Prep Type: Total/NA
Prep Batch: 539591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		10.0	9.91		mg/L		99	75 - 125
Magnesium	28.3		10.0	37.01		mg/L		88	75 - 125
Manganese	0.0010	J B	0.200	0.199		mg/L		99	75 - 125
Sodium	644		10.0	647.9	4	mg/L		40	75 - 125

Lab Sample ID: 480-172007-1 MS
Matrix: Water
Analysis Batch: 540188

Client Sample ID: TK-6-2020
Prep Type: Total/NA
Prep Batch: 539591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	0.82		10.0	11.12		mg/L		103	75 - 125

Lab Sample ID: 480-172007-1 MSD
Matrix: Water
Analysis Batch: 539959

Client Sample ID: TK-6-2020
Prep Type: Total/NA
Prep Batch: 539591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		10.0	9.93		mg/L		99	75 - 125	0	20
Magnesium	28.3		10.0	36.78		mg/L		85	75 - 125	1	20
Manganese	0.0010	J B	0.200	0.200		mg/L		100	75 - 125	1	20
Sodium	644		10.0	651.2	4	mg/L		74	75 - 125	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 540188

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Prep Batch: 539591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	0.82		10.0	11.32		mg/L		105	75 - 125	2	20

Lab Sample ID: MB 480-539701/1-A

Matrix: Water

Analysis Batch: 539962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/09/20 08:51	07/09/20 20:33	1
Magnesium	ND		0.20	0.043	mg/L		07/09/20 08:51	07/09/20 20:33	1
Manganese	ND		0.0030	0.00040	mg/L		07/09/20 08:51	07/09/20 20:33	1
Potassium	ND		0.50	0.10	mg/L		07/09/20 08:51	07/09/20 20:33	1
Sodium	0.412	J	1.0	0.32	mg/L		07/09/20 08:51	07/09/20 20:33	1

Lab Sample ID: LCS 480-539701/2-A

Matrix: Water

Analysis Batch: 539962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 539701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.95		mg/L		100	80 - 120
Magnesium	10.0	9.87		mg/L		99	80 - 120
Manganese	0.200	0.201		mg/L		100	80 - 120
Potassium	10.0	10.28		mg/L		103	80 - 120
Sodium	10.0	10.36		mg/L		103	80 - 120

Lab Sample ID: MB 480-539993/1-A

Matrix: Water

Analysis Batch: 540509

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/13/20 07:29	07/14/20 20:14	1
Magnesium	ND		0.20	0.043	mg/L		07/13/20 07:29	07/14/20 20:14	1
Manganese	ND		0.0030	0.00040	mg/L		07/13/20 07:29	07/14/20 20:14	1
Potassium	0.168	J	0.50	0.10	mg/L		07/13/20 07:29	07/14/20 20:14	1
Sodium	ND		1.0	0.32	mg/L		07/13/20 07:29	07/14/20 20:14	1

Lab Sample ID: LCS 480-539993/2-A

Matrix: Water

Analysis Batch: 540509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 539993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.82		mg/L		98	80 - 120
Magnesium	10.0	10.31		mg/L		103	80 - 120
Manganese	0.200	0.196		mg/L		98	80 - 120
Potassium	10.0	9.57		mg/L		96	80 - 120
Sodium	10.0	9.63		mg/L		96	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-539993/23-A
Matrix: Water
Analysis Batch: 540509

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 539993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.05	^	mg/L		101	80 - 120	2	20
Magnesium	10.0	10.47		mg/L		105	80 - 120	2	20
Manganese	0.200	0.203	^	mg/L		102	80 - 120	4	20
Potassium	10.0	9.95		mg/L		99	80 - 120	4	20

Lab Sample ID: LCSD 480-539993/23-A
Matrix: Water
Analysis Batch: 540864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 539993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	10.0	10.54		mg/L		105	80 - 120	9	20

Lab Sample ID: MB 480-540269/1-A
Matrix: Water
Analysis Batch: 540677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/14/20 10:05	07/15/20 15:44	1
Magnesium	ND		0.20	0.043	mg/L		07/14/20 10:05	07/15/20 15:44	1
Manganese	ND		0.0030	0.00040	mg/L		07/14/20 10:05	07/15/20 15:44	1
Sodium	ND		1.0	0.32	mg/L		07/14/20 10:05	07/15/20 15:44	1

Lab Sample ID: MB 480-540269/1-A
Matrix: Water
Analysis Batch: 540935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		07/14/20 10:05	07/16/20 16:39	1

Lab Sample ID: LCS 480-540269/2-A
Matrix: Water
Analysis Batch: 540677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.71		mg/L		97	80 - 120
Magnesium	10.0	10.01		mg/L		100	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120
Sodium	10.0	9.73		mg/L		97	80 - 120

Lab Sample ID: LCS 480-540269/2-A
Matrix: Water
Analysis Batch: 540935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.91		mg/L		99	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-540573/1-A

Matrix: Water

Analysis Batch: 540863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 540573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		07/16/20 10:08	07/17/20 01:53	1
Magnesium	ND		0.20	0.043	mg/L		07/16/20 10:08	07/17/20 01:53	1
Manganese	ND		0.0030	0.00040	mg/L		07/16/20 10:08	07/17/20 01:53	1
Potassium	ND		0.50	0.10	mg/L		07/16/20 10:08	07/17/20 01:53	1
Sodium	ND		1.0	0.32	mg/L		07/16/20 10:08	07/17/20 01:53	1

Lab Sample ID: LCS 480-540573/2-A

Matrix: Water

Analysis Batch: 540863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 540573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.18		mg/L		102	80 - 120
Magnesium	10.0	9.74		mg/L		97	80 - 120
Manganese	0.200	0.209		mg/L		105	80 - 120
Potassium	10.0	10.05		mg/L		100	80 - 120
Sodium	10.0	10.01		mg/L		100	80 - 120

Lab Sample ID: LCSD 480-540573/3-A

Matrix: Water

Analysis Batch: 540863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 540573

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.20		mg/L		102	80 - 120	0	20
Magnesium	10.0	9.77		mg/L		98	80 - 120	0	20
Manganese	0.200	0.210		mg/L		105	80 - 120	0	20
Potassium	10.0	10.10		mg/L		101	80 - 120	1	20
Sodium	10.0	10.05		mg/L		100	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-539319/4

Matrix: Water

Analysis Batch: 539319

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			07/06/20 15:19	1
Sulfate	ND		2.0	0.35	mg/L			07/06/20 15:19	1

Lab Sample ID: LCS 480-539319/3

Matrix: Water

Analysis Batch: 539319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.35		mg/L		97	90 - 110
Sulfate	50.0	50.18		mg/L		100	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-539470/28

Matrix: Water

Analysis Batch: 539470

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			07/07/20 14:55	1
Sulfate	ND		2.0	0.35	mg/L			07/07/20 14:55	1

Lab Sample ID: MB 480-539470/4

Matrix: Water

Analysis Batch: 539470

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			07/07/20 11:40	1
Sulfate	ND		2.0	0.35	mg/L			07/07/20 11:40	1

Lab Sample ID: LCS 480-539470/27

Matrix: Water

Analysis Batch: 539470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.66		mg/L		97	90 - 110
Sulfate	50.0	50.91		mg/L		102	90 - 110

Lab Sample ID: LCS 480-539470/3

Matrix: Water

Analysis Batch: 539470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.46		mg/L		97	90 - 110
Sulfate	50.0	50.92		mg/L		102	90 - 110

Lab Sample ID: 480-171962-5 MS

Matrix: Water

Analysis Batch: 539470

Client Sample ID: MW-8-4-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4140		2500	6365	E	mg/L		89	81 - 120
Sulfate	369		2500	2934		mg/L		103	80 - 120

Lab Sample ID: 480-171962-5 MSD

Matrix: Water

Analysis Batch: 539470

Client Sample ID: MW-8-4-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4140		2500	6417	E	mg/L		91	81 - 120	1	15
Sulfate	369		2500	2944		mg/L		103	80 - 120	0	15

Lab Sample ID: MB 480-539619/4

Matrix: Water

Analysis Batch: 539619

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			07/08/20 11:11	1
Sulfate	ND		2.0	0.35	mg/L			07/08/20 11:11	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 480-539619/3

Matrix: Water

Analysis Batch: 539619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.86		mg/L		98	90 - 110
Sulfate	50.0	51.98		mg/L		104	90 - 110

Lab Sample ID: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539619

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	843		1000	1780		mg/L		94	81 - 120
Sulfate	183		1000	1202		mg/L		102	80 - 120

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539619

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	843		1000	1783		mg/L		94	81 - 120	0	15
Sulfate	183		1000	1208		mg/L		103	80 - 120	0	15

Lab Sample ID: 480-172031-3 MS

Matrix: Water

Analysis Batch: 539619

Client Sample ID: MW-7-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4990		2500	7113	E	mg/L		85	81 - 120
Sulfate	238		2500	2805		mg/L		103	80 - 120

Lab Sample ID: MB 480-540216/4

Matrix: Water

Analysis Batch: 540216

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			07/13/20 15:03	1
Sulfate	ND		2.0	0.35	mg/L			07/13/20 15:03	1

Lab Sample ID: LCS 480-540216/3

Matrix: Water

Analysis Batch: 540216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.07		mg/L		98	90 - 110
Sulfate	50.0	50.87		mg/L		102	90 - 110

Lab Sample ID: 480-172156-2 MS

Matrix: Water

Analysis Batch: 540216

Client Sample ID: MW-7-5-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	97.8		250	341.0		mg/L		97	81 - 120
Sulfate	10.9		250	262.8		mg/L		101	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 480-172156-2 MSD

Matrix: Water

Analysis Batch: 540216

Client Sample ID: MW-7-5-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	97.8		250	341.1		mg/L		97	81 - 120	0	15
Sulfate	10.9		250	262.6		mg/L		101	80 - 120	0	15

Lab Sample ID: 480-172156-3 MS

Matrix: Water

Analysis Batch: 540216

Client Sample ID: MW-7-C-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	189		500	675.0		mg/L		97	81 - 120		
Sulfate	477		500	965.9		mg/L		98	80 - 120		

Lab Sample ID: MB 480-540323/4

Matrix: Water

Analysis Batch: 540323

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			07/14/20 11:50	1
Sulfate	ND		2.0	0.35	mg/L			07/14/20 11:50	1

Lab Sample ID: LCS 480-540323/3

Matrix: Water

Analysis Batch: 540323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	50.0	48.77		mg/L		98	90 - 110		
Sulfate	50.0	50.80		mg/L		102	90 - 110		

Lab Sample ID: 480-172221-5 MS

Matrix: Water

Analysis Batch: 540323

Client Sample ID: MW-8-3-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2000	^	1000	2855	E	mg/L		86	81 - 120		
Sulfate	56.9		1000	1057		mg/L		100	80 - 120		

Lab Sample ID: MB 480-540364/4

Matrix: Water

Analysis Batch: 540364

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			07/14/20 23:01	1
Sulfate	ND		2.0	0.35	mg/L			07/14/20 23:01	1

Lab Sample ID: LCS 480-540364/3

Matrix: Water

Analysis Batch: 540364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	50.0	50.45		mg/L		101	90 - 110		
Sulfate	50.0	50.69		mg/L		101	90 - 110		

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-540948/28

Matrix: Water

Analysis Batch: 540948

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			07/17/20 21:54	1
Sulfate	ND		2.0	0.35	mg/L			07/17/20 21:54	1

Lab Sample ID: MB 480-540948/4

Matrix: Water

Analysis Batch: 540948

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			07/17/20 16:14	1
Sulfate	ND		2.0	0.35	mg/L			07/17/20 16:14	1

Lab Sample ID: LCS 480-540948/27

Matrix: Water

Analysis Batch: 540948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.79		mg/L		102	90 - 110
Sulfate	50.0	51.03		mg/L		102	90 - 110

Lab Sample ID: LCS 480-540948/3

Matrix: Water

Analysis Batch: 540948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.62		mg/L		101	90 - 110
Sulfate	50.0	51.09		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-538736/3

Matrix: Water

Analysis Batch: 538736

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.00982	J	0.020	0.0090	mg/L			06/30/20 13:18	1

Lab Sample ID: LCS 480-538736/4

Matrix: Water

Analysis Batch: 538736

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: 480-171808-3 MS

Matrix: Water

Analysis Batch: 538736

Client Sample ID: MW-6-2-2020

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	0.164	F1	mg/L		82	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-171808-3 DU

Matrix: Water

Analysis Batch: 538736

Client Sample ID: MW-6-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	ND	F1	ND		mg/L		NC	20

Lab Sample ID: MB 480-538926/3

Matrix: Water

Analysis Batch: 538926

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			07/01/20 12:44	1

Lab Sample ID: LCS 480-538926/4

Matrix: Water

Analysis Batch: 538926

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

Lab Sample ID: 480-171837-1 MS

Matrix: Water

Analysis Batch: 538926

Client Sample ID: MW-7-2-2020

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	0.130	F1	mg/L		65	90 - 110

Lab Sample ID: 480-171837-1 DU

Matrix: Water

Analysis Batch: 538926

Client Sample ID: MW-7-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	ND	F1	ND		mg/L		NC	20

Lab Sample ID: MB 480-539282/27

Matrix: Water

Analysis Batch: 539282

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			07/06/20 09:24	1

Lab Sample ID: MB 480-539282/3

Matrix: Water

Analysis Batch: 539282

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			07/06/20 09:03	1

Lab Sample ID: LCS 480-539282/28

Matrix: Water

Analysis Batch: 539282

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	1.05		mg/L		105	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-539282/4

Matrix: Water

Analysis Batch: 539282

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: 480-171962-5 MS

Matrix: Water

Analysis Batch: 539282

Client Sample ID: MW-8-4-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.051		0.200	0.256		mg/L		103	90 - 110

Lab Sample ID: 480-171962-5 DU

Matrix: Water

Analysis Batch: 539282

Client Sample ID: MW-8-4-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.051		0.0488		mg/L		4	20

Lab Sample ID: MB 480-539510/27

Matrix: Water

Analysis Batch: 539510

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			07/07/20 13:24	1

Lab Sample ID: MB 480-539510/51

Matrix: Water

Analysis Batch: 539510

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			07/07/20 13:44	1

Lab Sample ID: LCS 480-539510/28

Matrix: Water

Analysis Batch: 539510

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: LCS 480-539510/52

Matrix: Water

Analysis Batch: 539510

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: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539510

Client Sample ID: TK-6-2020

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	0.153	F1	mg/L		77	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539510

Client Sample ID: TK-6-2020

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	0.149	F1	mg/L	-	75	90 - 110	3	20

Lab Sample ID: MB 480-539592/3

Matrix: Water

Analysis Batch: 539592

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	-		07/08/20 08:41	1

Lab Sample ID: LCS 480-539592/4

Matrix: Water

Analysis Batch: 539592

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: 480-172031-3 MS

Matrix: Water

Analysis Batch: 539592

Client Sample ID: MW-7-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		0.200	0.213		mg/L	-	107	90 - 110

Lab Sample ID: 480-172031-3 DU

Matrix: Water

Analysis Batch: 539592

Client Sample ID: MW-7-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		0.00929	J	mg/L	-	NC	20

Lab Sample ID: MB 480-539915/3

Matrix: Water

Analysis Batch: 539915

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0179	J	0.020	0.0090	mg/L	-		07/10/20 06:57	1

Lab Sample ID: MB 480-539915/51

Matrix: Water

Analysis Batch: 539915

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	-		07/10/20 07:38	1

Lab Sample ID: LCS 480-539915/4

Matrix: Water

Analysis Batch: 539915

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	1.05		mg/L	-	105	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-539915/52

Matrix: Water

Analysis Batch: 539915

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	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-172156-3 MS

Matrix: Water

Analysis Batch: 539915

Client Sample ID: MW-7-C-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.37		0.200	0.562		mg/L		98	90 - 110

Lab Sample ID: 480-172156-3 DU

Matrix: Water

Analysis Batch: 539915

Client Sample ID: MW-7-C-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.37		0.362		mg/L		1	20

Lab Sample ID: MB 480-540338/27

Matrix: Water

Analysis Batch: 540338

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			07/14/20 09:57	1

Lab Sample ID: MB 480-540338/75

Matrix: Water

Analysis Batch: 540338

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			07/14/20 10:38	1

Lab Sample ID: LCS 480-540338/28

Matrix: Water

Analysis Batch: 540338

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 480-540338/76

Matrix: Water

Analysis Batch: 540338

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: MB 480-540455/27

Matrix: Water

Analysis Batch: 540455

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			07/15/20 08:22	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-540455/3

Matrix: Water

Analysis Batch: 540455

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			07/15/20 08:01	1

Lab Sample ID: LCS 480-540455/28

Matrix: Water

Analysis Batch: 540455

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 480-540455/4

Matrix: Water

Analysis Batch: 540455

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: 480-172300-5 MS

Matrix: Water

Analysis Batch: 540455

Client Sample ID: GW-DUP-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	193		40.0	254.0	4	mg/L		153	90 - 110

Lab Sample ID: 480-172300-5 DU

Matrix: Water

Analysis Batch: 540455

Client Sample ID: GW-DUP-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	193		204.0		mg/L		6	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-538761/3

Matrix: Water

Analysis Batch: 538761

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			06/30/20 14:53	1

Lab Sample ID: LCS 480-538761/4

Matrix: Water

Analysis Batch: 538761

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	1.59		mg/L		106	90 - 110

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 480-539534/27

Matrix: Water

Analysis Batch: 539534

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	-		07/07/20 16:39	1

Lab Sample ID: MB 480-539534/3

Matrix: Water

Analysis Batch: 539534

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	-		07/07/20 16:12	1

Lab Sample ID: LCS 480-539534/28

Matrix: Water

Analysis Batch: 539534

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 480-539534/4

Matrix: Water

Analysis Batch: 539534

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	1.59		mg/L	-	106	90 - 110

Lab Sample ID: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539534

Client Sample ID: TK-6-2020

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: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539534

Client Sample ID: TK-6-2020

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	0.996		mg/L	-	100	90 - 110	5	20

Lab Sample ID: MB 480-539714/3

Matrix: Water

Analysis Batch: 539714

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	-		07/08/20 16:12	1

Lab Sample ID: LCS 480-539714/4

Matrix: Water

Analysis Batch: 539714

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

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: 480-172031-3 MS

Matrix: Water

Analysis Batch: 539714

Client Sample ID: MW-7-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	ND		1.00	0.964		mg/L		96	90 - 110

Lab Sample ID: 480-172031-3 DU

Matrix: Water

Analysis Batch: 539714

Client Sample ID: MW-7-6-2020

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 480-539904/3

Matrix: Water

Analysis Batch: 539904

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			07/09/20 21:47	1

Lab Sample ID: LCS 480-539904/4

Matrix: Water

Analysis Batch: 539904

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: MB 480-540076/21

Matrix: Water

Analysis Batch: 540076

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			07/11/20 12:16	1

Lab Sample ID: MB 480-540076/3

Matrix: Water

Analysis Batch: 540076

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	0.0244	J	0.050	0.020	mg/L			07/11/20 11:56	1

Lab Sample ID: LCS 480-540076/22

Matrix: Water

Analysis Batch: 540076

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: LCS 480-540076/4

Matrix: Water

Analysis Batch: 540076

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

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: 480-172221-3 MS

Matrix: Water

Analysis Batch: 540076

Client Sample ID: MW-8-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	0.10	B F1	1.00	1.27	F1	mg/L	-	117	90 - 110

Lab Sample ID: 480-172221-3 DU

Matrix: Water

Analysis Batch: 540076

Client Sample ID: MW-8-2-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite	0.10	B F1	0.0992		mg/L	-	0.8	20

Method: 353.2-1993 R2.0 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-443602/13

Matrix: Water

Analysis Batch: 443602

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	0.031	mg/L	-		07/20/20 18:14	1

Lab Sample ID: LCS 240-443602/14

Matrix: Water

Analysis Batch: 443602

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	3.72	3.70		mg/L	-	99	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-539113/4

Matrix: Water

Analysis Batch: 539113

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	-		07/01/20 22:16	1

Lab Sample ID: LCS 480-539113/5

Matrix: Water

Analysis Batch: 539113

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	61.63		mg/L	-	103	90 - 110

Lab Sample ID: 480-171808-1 MS

Matrix: Water

Analysis Batch: 539113

Client Sample ID: MW-6-1-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.0		23.3	29.22		mg/L	-	108	54 - 131

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-171837-2 MS

Matrix: Water

Analysis Batch: 539113

Client Sample ID: MW-7-3-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.0		23.3	19.53		mg/L		71	54 - 131

Lab Sample ID: 480-171808-2 DU

Matrix: Water

Analysis Batch: 539113

Client Sample ID: MW-6-F-8-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.2		1.18		mg/L		1	20

Lab Sample ID: MB 480-539495/4

Matrix: Water

Analysis Batch: 539495

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			07/03/20 14:15	1

Lab Sample ID: LCS 480-539495/5

Matrix: Water

Analysis Batch: 539495

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	61.80		mg/L		103	90 - 110

Lab Sample ID: MB 480-539670/27

Matrix: Water

Analysis Batch: 539670

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			07/08/20 05:02	1

Lab Sample ID: MB 480-539670/4

Matrix: Water

Analysis Batch: 539670

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			07/07/20 18:14	1

Lab Sample ID: LCS 480-539670/28

Matrix: Water

Analysis Batch: 539670

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	63.16		mg/L		105	90 - 110

Lab Sample ID: LCS 480-539670/5

Matrix: Water

Analysis Batch: 539670

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	62.55		mg/L		104	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: 480-172007-1 MS

Matrix: Water

Analysis Batch: 539670

Client Sample ID: TK-6-2020

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	27.32		mg/L		110	54 - 131

Lab Sample ID: 480-172007-1 MSD

Matrix: Water

Analysis Batch: 539670

Client Sample ID: TK-6-2020

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	1.7		23.3	27.30		mg/L		110	54 - 131	0	20

Lab Sample ID: MB 480-539782/4

Matrix: Water

Analysis Batch: 539782

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			07/08/20 17:16	1

Lab Sample ID: LCS 480-539782/5

Matrix: Water

Analysis Batch: 539782

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	63.86		mg/L		106	90 - 110

Lab Sample ID: 480-172031-2 DU

Matrix: Water

Analysis Batch: 539782

Client Sample ID: MW-7-A-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	13.4		13.03		mg/L		3	20

Lab Sample ID: MB 480-540067/4

Matrix: Water

Analysis Batch: 540067

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			07/09/20 14:24	1

Lab Sample ID: LCS 480-540067/5

Matrix: Water

Analysis Batch: 540067

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	62.41		mg/L		104	90 - 110

Lab Sample ID: MB 480-540344/27

Matrix: Water

Analysis Batch: 540344

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			07/12/20 01:43	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-540344/4

Matrix: Water

Analysis Batch: 540344

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			07/11/20 14:56	1

Lab Sample ID: LCS 480-540344/28

Matrix: Water

Analysis Batch: 540344

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	62.65		mg/L		104	90 - 110

Lab Sample ID: LCS 480-540344/5

Matrix: Water

Analysis Batch: 540344

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	62.40		mg/L		104	90 - 110

Lab Sample ID: MB 480-540616/27

Matrix: Water

Analysis Batch: 540616

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			07/15/20 06:49	1

Lab Sample ID: MB 480-540616/4

Matrix: Water

Analysis Batch: 540616

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			07/14/20 19:41	1

Lab Sample ID: LCS 480-540616/28

Matrix: Water

Analysis Batch: 540616

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	65.88		mg/L		110	90 - 110

Lab Sample ID: LCS 480-540616/5

Matrix: Water

Analysis Batch: 540616

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	65.15		mg/L		109	90 - 110

Lab Sample ID: 480-172221-1 DU

Matrix: Water

Analysis Batch: 540616

Client Sample ID: MW-8-003-B-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.0		2.01		mg/L		0.7	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-540816/28
Matrix: Water
Analysis Batch: 540816

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			07/16/20 08:01	1

Lab Sample ID: MB 480-540816/4
Matrix: Water
Analysis Batch: 540816

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			07/15/20 19:56	1

Lab Sample ID: LCS 480-540816/29
Matrix: Water
Analysis Batch: 540816

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	62.90		mg/L		105	90 - 110

Lab Sample ID: LCS 480-540816/5
Matrix: Water
Analysis Batch: 540816

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	63.08		mg/L		105	90 - 110

Lab Sample ID: 480-172300-4 MS
Matrix: Water
Analysis Batch: 540816

Client Sample ID: BLDG-10-MW-1-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.9		23.3	28.75		mg/L		107	54 - 131

Lab Sample ID: 480-172300-5 DU
Matrix: Water
Analysis Batch: 540816

Client Sample ID: GW-DUP-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	6.1		5.93		mg/L		2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-539901/4
Matrix: Water
Analysis Batch: 539901

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			07/09/20 13:19	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-539901/5

Matrix: Water

Analysis Batch: 539901

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	103.8		mg/L		104	90 - 110

Lab Sample ID: 480-171808-2 MS

Matrix: Water

Analysis Batch: 539901

Client Sample ID: MW-6-F-8-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	363	F1	100	400.2	F1	mg/L		37	60 - 140

Lab Sample ID: 480-171808-2 DU

Matrix: Water

Analysis Batch: 539901

Client Sample ID: MW-6-F-8-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	363	F1	358.2		mg/L		1	20

Lab Sample ID: MB 480-540562/4

Matrix: Water

Analysis Batch: 540562

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			07/15/20 11:51	1

Lab Sample ID: LCS 480-540562/5

Matrix: Water

Analysis Batch: 540562

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	95.84		mg/L		96	90 - 110

Lab Sample ID: MB 480-540651/30

Matrix: Water

Analysis Batch: 540651

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			07/15/20 19:24	1

Lab Sample ID: MB 480-540651/4

Matrix: Water

Analysis Batch: 540651

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			07/15/20 16:30	1

Lab Sample ID: MB 480-540651/54

Matrix: Water

Analysis Batch: 540651

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			07/15/20 22:08	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 480-540651/31
Matrix: Water
Analysis Batch: 540651

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	97.04		mg/L		97	90 - 110

Lab Sample ID: LCS 480-540651/5
Matrix: Water
Analysis Batch: 540651

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	96.32		mg/L		96	90 - 110

Lab Sample ID: LCS 480-540651/55
Matrix: Water
Analysis Batch: 540651

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	95.76		mg/L		96	90 - 110

Lab Sample ID: 480-171962-1 MS
Matrix: Water
Analysis Batch: 540651

Client Sample ID: MW-7-4-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	376	F1	160	375.5	F1	mg/L		-0.2	60 - 140

Lab Sample ID: 480-172031-1 MS
Matrix: Water
Analysis Batch: 540651

Client Sample ID: MW-7-7-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	316	F1	160	372.0	F1	mg/L		35	60 - 140

Lab Sample ID: 480-171962-1 DU
Matrix: Water
Analysis Batch: 540651

Client Sample ID: MW-7-4-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	376	F1	379.2		mg/L		0.9	20

Lab Sample ID: 480-172031-1 DU
Matrix: Water
Analysis Batch: 540651

Client Sample ID: MW-7-7-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	316	F1	319.3		mg/L		1	20

Lab Sample ID: MB 480-540827/28
Matrix: Water
Analysis Batch: 540827

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			07/16/20 15:31	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-540827/4
Matrix: Water
Analysis Batch: 540827

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			07/16/20 12:13	1

Lab Sample ID: LCS 480-540827/29
Matrix: Water
Analysis Batch: 540827

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 480-540827/5
Matrix: Water
Analysis Batch: 540827

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	97.60		mg/L		98	90 - 110

Lab Sample ID: 480-172156-2 MS
Matrix: Water
Analysis Batch: 540827

Client Sample ID: MW-7-5-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	372	F1	100	425.5	F1	mg/L		53	60 - 140

Lab Sample ID: 480-172156-2 DU
Matrix: Water
Analysis Batch: 540827

Client Sample ID: MW-7-5-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	372	F1	375.1		mg/L		0.7	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-538753/23
Matrix: Water
Analysis Batch: 538753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-539112/3
Matrix: Water
Analysis Batch: 539112

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			07/02/20 11:40	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-539112/4

Matrix: Water

Analysis Batch: 539112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.00		mg/L		100	90 - 110

Lab Sample ID: 480-171808-1 MS

Matrix: Water

Analysis Batch: 539112

Client Sample ID: MW-6-1-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		2.35	2.40		mg/L		102	40 - 150

Lab Sample ID: 480-171837-2 DU

Matrix: Water

Analysis Batch: 539112

Client Sample ID: MW-7-3-2020

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 480-539375/3

Matrix: Water

Analysis Batch: 539375

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			07/06/20 14:33	1

Lab Sample ID: LCS 480-539375/4

Matrix: Water

Analysis Batch: 539375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.00		mg/L		100	90 - 110

Lab Sample ID: MB 480-540236/3

Matrix: Water

Analysis Batch: 540236

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			07/13/20 13:07	1

Lab Sample ID: LCS 480-540236/4

Matrix: Water

Analysis Batch: 540236

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: 480-172007-1 MS

Matrix: Water

Analysis Batch: 540236

Client Sample ID: TK-6-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		2.40	2.80		mg/L		117	40 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: 480-172007-1 MSD
Matrix: Water
Analysis Batch: 540236

Client Sample ID: TK-6-2020
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		2.40	2.80		mg/L		117	40 - 150	0	20

Lab Sample ID: MB 480-540394/27
Matrix: Water
Analysis Batch: 540394

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			07/14/20 13:30	1

Lab Sample ID: MB 480-540394/3
Matrix: Water
Analysis Batch: 540394

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			07/14/20 13:30	1

Lab Sample ID: LCS 480-540394/28
Matrix: Water
Analysis Batch: 540394

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 480-540394/4
Matrix: Water
Analysis Batch: 540394

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: 480-172221-1 MS
Matrix: Water
Analysis Batch: 540394

Client Sample ID: MW-8-003-B-2020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		2.40	2.40		mg/L		100	40 - 150

Lab Sample ID: 480-172221-5 DU
Matrix: Water
Analysis Batch: 540394

Client Sample ID: MW-8-3-2020
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 480-541070/3
Matrix: Water
Analysis Batch: 541070

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			07/19/20 12:45	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: LCS 480-541070/4

Matrix: Water

Analysis Batch: 541070

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: 480-172300-2 MS

Matrix: Water

Analysis Batch: 541070

Client Sample ID: MW-9-12-2020

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide	ND		2.40	2.40		mg/L		100	40 - 150		

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

GC/MS VOA

Analysis Batch: 538818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	8260C	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	8260C	
480-171808-3	MW-6-2-2020	Total/NA	Water	8260C	
480-171808-4	TRIP BLANK 062920	Total/NA	Water	8260C	
MB 480-538818/7	Method Blank	Total/NA	Water	8260C	
LCS 480-538818/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 538888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	8260C	
480-171837-2	MW-7-3-2020	Total/NA	Water	8260C	
480-171837-4	TRIP BLANK 063020	Total/NA	Water	8260C	
MB 480-538888/8	Method Blank	Total/NA	Water	8260C	
LCS 480-538888/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 539228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	8260C	
480-171962-2	MW-7-1-2020	Total/NA	Water	8260C	
480-171962-3	TRIP BLANK	Total/NA	Water	8260C	
480-171962-5	MW-8-4-2020	Total/NA	Water	8260C	
MB 480-539228/8	Method Blank	Total/NA	Water	8260C	
LCS 480-539228/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 539745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	8260C	
480-172007-2	MW-10-3-2020	Total/NA	Water	8260C	
480-172007-3	TRIP BLANK-1	Total/NA	Water	8260C	
480-172007-4	MW-10-2-2020	Total/NA	Water	8260C	
480-172007-6	TRIP BLANK-2	Total/NA	Water	8260C	
480-172031-1	MW-7-7-2020	Total/NA	Water	8260C	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	8260C	
480-172031-3	MW-7-6-2020	Total/NA	Water	8260C	
MB 480-539745/7	Method Blank	Total/NA	Water	8260C	
LCS 480-539745/5	Lab Control Sample	Total/NA	Water	8260C	
480-172007-1 MS	TK-6-2020	Total/NA	Water	8260C	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	8260C	

Analysis Batch: 540161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	8260C	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	8260C	
480-172156-4	TripBlank	Total/NA	Water	8260C	
480-172221-1	MW-8-003-B-2020	Total/NA	Water	8260C	
480-172221-3	MW-8-2-2020	Total/NA	Water	8260C	
480-172221-5	MW-8-3-2020	Total/NA	Water	8260C	
MB 480-540161/8	Method Blank	Total/NA	Water	8260C	
LCS 480-540161/6	Lab Control Sample	Total/NA	Water	8260C	
480-172156-3 MS	MW-7-C-2-2020	Total/NA	Water	8260C	
480-172156-3 MSD	MW-7-C-2-2020	Total/NA	Water	8260C	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

GC/MS VOA

Analysis Batch: 540282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-4	Trip Blank 071020	Total/NA	Water	8260C	
MB 480-540282/8	Method Blank	Total/NA	Water	8260C	
LCS 480-540282/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 540303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-2	MW-7-5-2020	Total/NA	Water	8260C	
480-172221-2	MW-8-1-2020	Total/NA	Water	8260C	
480-172221-3 - DL	MW-8-2-2020	Total/NA	Water	8260C	
MB 480-540303/8	Method Blank	Total/NA	Water	8260C	
LCS 480-540303/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 541047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-6	TRIP BLANK 1	Total/NA	Water	8260C	
480-172300-7	TRIP BLANK 2	Total/NA	Water	8260C	
MB 480-541047/7	Method Blank	Total/NA	Water	8260C	
LCS 480-541047/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 541134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	8260C	
480-172300-2	MW-9-12-2020	Total/NA	Water	8260C	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	8260C	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	8260C	
MB 480-541134/6	Method Blank	Total/NA	Water	8260C	
LCS 480-541134/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 541461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-5	GW-DUP-2020	Total/NA	Water	8260C	
MB 480-541461/7	Method Blank	Total/NA	Water	8260C	
LCS 480-541461/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 540460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	3510C	
480-172300-2	MW-9-12-2020	Total/NA	Water	3510C	
MB 480-540460/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-540460/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-540460/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 541066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	8270D	540460
MB 480-540460/1-A	Method Blank	Total/NA	Water	8270D	540460
LCS 480-540460/2-A	Lab Control Sample	Total/NA	Water	8270D	540460
LCSD 480-540460/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	540460

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

GC/MS Semi VOA

Analysis Batch: 541178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-2	MW-9-12-2020	Total/NA	Water	8270D	540460

GC VOA

Analysis Batch: 156441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	RSK-175	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	RSK-175	
480-171808-3	MW-6-2-2020	Total/NA	Water	RSK-175	
480-171837-1	MW-7-2-2020	Total/NA	Water	RSK-175	
480-171837-2	MW-7-3-2020	Total/NA	Water	RSK-175	
MB 200-156441/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-156441/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-156441/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 156494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	RSK-175	
480-171962-2	MW-7-1-2020	Total/NA	Water	RSK-175	
480-171962-5	MW-8-4-2020	Total/NA	Water	RSK-175	
MB 200-156494/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-156494/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-156494/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 156758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	RSK-175	
480-172007-2	MW-10-3-2020	Total/NA	Water	RSK-175	
480-172007-4	MW-10-2-2020	Total/NA	Water	RSK-175	
480-172031-1	MW-7-7-2020	Total/NA	Water	RSK-175	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	RSK-175	
480-172031-3	MW-7-6-2020	Total/NA	Water	RSK-175	
480-172156-1	MW-7-8-2020	Total/NA	Water	RSK-175	
480-172156-2	MW-7-5-2020	Total/NA	Water	RSK-175	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	RSK-175	
MB 200-156758/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-156758/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-156758/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
480-172007-1 MS	TK-6-2020	Total/NA	Water	RSK-175	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	RSK-175	

Analysis Batch: 156860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	RSK-175	
480-172221-2	MW-8-1-2020	Total/NA	Water	RSK-175	
480-172221-3	MW-8-2-2020	Total/NA	Water	RSK-175	
480-172221-5	MW-8-3-2020	Total/NA	Water	RSK-175	
480-172300-1	MW-9-101-A-2020	Total/NA	Water	RSK-175	
480-172300-2	MW-9-12-2020	Total/NA	Water	RSK-175	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	RSK-175	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	RSK-175	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

GC VOA (Continued)

Analysis Batch: 156860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-5	GW-DUP-2020	Total/NA	Water	RSK-175	
MB 200-156860/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-156860/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-156860/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 538739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-3	MW-6-2-2020	Total/NA	Water	RSK-175	
MB 480-538739/27	Method Blank	Total/NA	Water	RSK-175	
LCS 480-538739/28	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-538739/29	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 539136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	RSK-175	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	RSK-175	
480-171837-1	MW-7-2-2020	Total/NA	Water	RSK-175	
480-171837-2	MW-7-3-2020	Total/NA	Water	RSK-175	
MB 480-539136/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-539136/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-539136/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 539332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	RSK-175	
480-171962-5	MW-8-4-2020	Total/NA	Water	RSK-175	
MB 480-539332/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-539332/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-539332/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 539485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-2	MW-7-1-2020	Total/NA	Water	RSK-175	
MB 480-539485/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-539485/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-539485/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 539667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	RSK-175	
480-172007-2	MW-10-3-2020	Total/NA	Water	RSK-175	
480-172007-4	MW-10-2-2020	Total/NA	Water	RSK-175	
480-172031-1	MW-7-7-2020	Total/NA	Water	RSK-175	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	RSK-175	
MB 480-539667/6	Method Blank	Total/NA	Water	RSK-175	
LCS 480-539667/7	Lab Control Sample	Total/NA	Water	RSK-175	
480-172007-1 MS	TK-6-2020	Total/NA	Water	RSK-175	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	RSK-175	

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

GC VOA

Analysis Batch: 539857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-4 - DL	MW-10-2-2020	Total/NA	Water	RSK-175	
480-172031-3	MW-7-6-2020	Total/NA	Water	RSK-175	
MB 480-539857/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-539857/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-539857/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 540533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	RSK-175	
480-172156-2	MW-7-5-2020	Total/NA	Water	RSK-175	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	RSK-175	
480-172156-3 - DL	MW-7-C-2-2020	Total/NA	Water	RSK-175	
480-172221-1	MW-8-003-B-2020	Total/NA	Water	RSK-175	
480-172221-2	MW-8-1-2020	Total/NA	Water	RSK-175	
480-172221-3	MW-8-2-2020	Total/NA	Water	RSK-175	
480-172221-5	MW-8-3-2020	Total/NA	Water	RSK-175	
480-172300-2	MW-9-12-2020	Total/NA	Water	RSK-175	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	RSK-175	
480-172300-5	GW-DUP-2020	Total/NA	Water	RSK-175	
MB 480-540533/30	Method Blank	Total/NA	Water	RSK-175	
MB 480-540533/6	Method Blank	Total/NA	Water	RSK-175	
LCS 480-540533/31	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 480-540533/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-540533/32	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 540701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	RSK-175	
480-172300-3 - DL	MW-7-P-1-2020	Total/NA	Water	RSK-175	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	RSK-175	
480-172300-5 - DL	GW-DUP-2020	Total/NA	Water	RSK-175	
MB 480-540701/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-540701/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-540701/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 538780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	3005A	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	3005A	
480-171808-3	MW-6-2-2020	Total/NA	Water	3005A	
MB 480-538780/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-538780/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 539015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	6010C	538780
480-171808-2	MW-6-F-8-2020	Total/NA	Water	6010C	538780
480-171808-3	MW-6-2-2020	Total/NA	Water	6010C	538780
MB 480-538780/1-A	Method Blank	Total/NA	Water	6010C	538780

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Metals (Continued)

Analysis Batch: 539015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-538780/2-A	Lab Control Sample	Total/NA	Water	6010C	538780

Prep Batch: 539037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	3005A	
480-171837-2	MW-7-3-2020	Total/NA	Water	3005A	
MB 480-539037/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-539037/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-171837-1 MS	MW-7-2-2020	Total/NA	Water	3005A	
480-171837-1 MSD	MW-7-2-2020	Total/NA	Water	3005A	

Analysis Batch: 539089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-2	MW-6-F-8-2020	Total/NA	Water	6010C	538780

Analysis Batch: 539260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	6010C	539037
480-171837-2	MW-7-3-2020	Total/NA	Water	6010C	539037
MB 480-539037/1-A	Method Blank	Total/NA	Water	6010C	539037
LCS 480-539037/2-A	Lab Control Sample	Total/NA	Water	6010C	539037
480-171837-1 MS	MW-7-2-2020	Total/NA	Water	6010C	539037
480-171837-1 MSD	MW-7-2-2020	Total/NA	Water	6010C	539037

Prep Batch: 539342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	3005A	
480-171962-2	MW-7-1-2020	Total/NA	Water	3005A	
480-171962-5	MW-8-4-2020	Total/NA	Water	3005A	
MB 480-539342/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-539342/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-539342/20-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 539432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-2	MW-7-3-2020	Total/NA	Water	6010C	539037

Prep Batch: 539591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	3005A	
480-172007-2	MW-10-3-2020	Total/NA	Water	3005A	
480-172007-4	MW-10-2-2020	Total/NA	Water	3005A	
MB 480-539591/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-539591/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-172007-1 MS	TK-6-2020	Total/NA	Water	3005A	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	3005A	

Analysis Batch: 539597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	6010C	539342
480-171962-2	MW-7-1-2020	Total/NA	Water	6010C	539342

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Metals (Continued)

Analysis Batch: 539597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-5	MW-8-4-2020	Total/NA	Water	6010C	539342
MB 480-539342/1-A	Method Blank	Total/NA	Water	6010C	539342
LCS 480-539342/2-A	Lab Control Sample	Total/NA	Water	6010C	539342
LCSD 480-539342/20-A	Lab Control Sample Dup	Total/NA	Water	6010C	539342

Prep Batch: 539701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	3005A	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	3005A	
480-172031-3	MW-7-6-2020	Total/NA	Water	3005A	
MB 480-539701/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-539701/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 539799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-2	MW-7-1-2020	Total/NA	Water	6010C	539342
480-171962-5	MW-8-4-2020	Total/NA	Water	6010C	539342

Analysis Batch: 539959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	6010C	539591
480-172007-2	MW-10-3-2020	Total/NA	Water	6010C	539591
480-172007-4	MW-10-2-2020	Total/NA	Water	6010C	539591
MB 480-539591/1-A	Method Blank	Total/NA	Water	6010C	539591
LCS 480-539591/2-A	Lab Control Sample	Total/NA	Water	6010C	539591
480-172007-1 MS	TK-6-2020	Total/NA	Water	6010C	539591
480-172007-1 MSD	TK-6-2020	Total/NA	Water	6010C	539591

Analysis Batch: 539962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	6010C	539701
480-172031-2	MW-7-A-6-2020	Total/NA	Water	6010C	539701
480-172031-3	MW-7-6-2020	Total/NA	Water	6010C	539701
MB 480-539701/1-A	Method Blank	Total/NA	Water	6010C	539701
LCS 480-539701/2-A	Lab Control Sample	Total/NA	Water	6010C	539701

Prep Batch: 539993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	3005A	
480-172156-2	MW-7-5-2020	Total/NA	Water	3005A	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	3005A	
MB 480-539993/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-539993/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-539993/23-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 540188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	6010C	539591
MB 480-539591/1-A	Method Blank	Total/NA	Water	6010C	539591
LCS 480-539591/2-A	Lab Control Sample	Total/NA	Water	6010C	539591
480-172007-1 MS	TK-6-2020	Total/NA	Water	6010C	539591

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Metals (Continued)

Analysis Batch: 540188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1 MSD	TK-6-2020	Total/NA	Water	6010C	539591

Analysis Batch: 540190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	6010C	539701
480-172031-3	MW-7-6-2020	Total/NA	Water	6010C	539701

Prep Batch: 540269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	3005A	
480-172221-2	MW-8-1-2020	Total/NA	Water	3005A	
480-172221-3	MW-8-2-2020	Total/NA	Water	3005A	
480-172221-5	MW-8-3-2020	Total/NA	Water	3005A	
MB 480-540269/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-540269/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 540509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	6010C	539993
480-172156-2	MW-7-5-2020	Total/NA	Water	6010C	539993
480-172156-3	MW-7-C-2-2020	Total/NA	Water	6010C	539993
MB 480-539993/1-A	Method Blank	Total/NA	Water	6010C	539993
LCS 480-539993/2-A	Lab Control Sample	Total/NA	Water	6010C	539993
LCSD 480-539993/23-A	Lab Control Sample Dup	Total/NA	Water	6010C	539993

Analysis Batch: 540540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-4	MW-10-2-2020	Total/NA	Water	6010C	539591

Prep Batch: 540573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	3005A	
480-172300-2	MW-9-12-2020	Total/NA	Water	3005A	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	3005A	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	3005A	
480-172300-5	GW-DUP-2020	Total/NA	Water	3005A	
MB 480-540573/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-540573/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-540573/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 540675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	6010C	539993
480-172156-2	MW-7-5-2020	Total/NA	Water	6010C	539993

Analysis Batch: 540677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	6010C	540269
480-172221-2	MW-8-1-2020	Total/NA	Water	6010C	540269
480-172221-3	MW-8-2-2020	Total/NA	Water	6010C	540269
480-172221-5	MW-8-3-2020	Total/NA	Water	6010C	540269

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Metals (Continued)

Analysis Batch: 540677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-540269/1-A	Method Blank	Total/NA	Water	6010C	540269
LCS 480-540269/2-A	Lab Control Sample	Total/NA	Water	6010C	540269

Analysis Batch: 540863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	6010C	540573
480-172300-2	MW-9-12-2020	Total/NA	Water	6010C	540573
480-172300-3	MW-7-P-1-2020	Total/NA	Water	6010C	540573
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	6010C	540573
480-172300-5	GW-DUP-2020	Total/NA	Water	6010C	540573
MB 480-540573/1-A	Method Blank	Total/NA	Water	6010C	540573
LCS 480-540573/2-A	Lab Control Sample	Total/NA	Water	6010C	540573
LCSD 480-540573/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	540573

Analysis Batch: 540864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-539993/23-A	Lab Control Sample Dup	Total/NA	Water	6010C	539993

Analysis Batch: 540935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	6010C	540269
MB 480-540269/1-A	Method Blank	Total/NA	Water	6010C	540269
LCS 480-540269/2-A	Lab Control Sample	Total/NA	Water	6010C	540269

Analysis Batch: 541120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	6010C	540573

General Chemistry

Analysis Batch: 443602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	353.2-1993 R2.0	
480-172300-2	MW-9-12-2020	Total/NA	Water	353.2-1993 R2.0	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	353.2-1993 R2.0	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	353.2-1993 R2.0	
480-172300-5	GW-DUP-2020	Total/NA	Water	353.2-1993 R2.0	
MB 240-443602/13	Method Blank	Total/NA	Water	353.2-1993 R2.0	
LCS 240-443602/14	Lab Control Sample	Total/NA	Water	353.2-1993 R2.0	

Analysis Batch: 538736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	350.1	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	350.1	
480-171808-3	MW-6-2-2020	Total/NA	Water	350.1	
MB 480-538736/3	Method Blank	Total/NA	Water	350.1	
LCS 480-538736/4	Lab Control Sample	Total/NA	Water	350.1	
480-171808-3 MS	MW-6-2-2020	Total/NA	Water	350.1	
480-171808-3 DU	MW-6-2-2020	Total/NA	Water	350.1	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry

Analysis Batch: 538753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	SM 4500 H+ B	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	SM 4500 H+ B	
480-171808-3	MW-6-2-2020	Total/NA	Water	SM 4500 H+ B	
LCS 480-538753/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 538761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	353.2	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	353.2	
480-171808-3	MW-6-2-2020	Total/NA	Water	353.2	
MB 480-538761/3	Method Blank	Total/NA	Water	353.2	
LCS 480-538761/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 538926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	350.1	
480-171837-2	MW-7-3-2020	Total/NA	Water	350.1	
MB 480-538926/3	Method Blank	Total/NA	Water	350.1	
LCS 480-538926/4	Lab Control Sample	Total/NA	Water	350.1	
480-171837-1 MS	MW-7-2-2020	Total/NA	Water	350.1	
480-171837-1 DU	MW-7-2-2020	Total/NA	Water	350.1	

Analysis Batch: 538932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	353.2	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	353.2	
480-171808-3	MW-6-2-2020	Total/NA	Water	353.2	

Analysis Batch: 539112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	SM 4500 S2 F	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	SM 4500 S2 F	
480-171808-3	MW-6-2-2020	Total/NA	Water	SM 4500 S2 F	
480-171837-1	MW-7-2-2020	Total/NA	Water	SM 4500 S2 F	
480-171837-2	MW-7-3-2020	Total/NA	Water	SM 4500 S2 F	
MB 480-539112/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-539112/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-171808-1 MS	MW-6-1-2020	Total/NA	Water	SM 4500 S2 F	
480-171837-2 DU	MW-7-3-2020	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 539113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	9060A	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	9060A	
480-171808-3	MW-6-2-2020	Total/NA	Water	9060A	
480-171837-1	MW-7-2-2020	Total/NA	Water	9060A	
480-171837-2	MW-7-3-2020	Total/NA	Water	9060A	
MB 480-539113/4	Method Blank	Total/NA	Water	9060A	
LCS 480-539113/5	Lab Control Sample	Total/NA	Water	9060A	
480-171808-1 MS	MW-6-1-2020	Total/NA	Water	9060A	
480-171837-2 MS	MW-7-3-2020	Total/NA	Water	9060A	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 539113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-2 DU	MW-6-F-8-2020	Total/NA	Water	9060A	

Analysis Batch: 539188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	353.2	
480-171837-2	MW-7-3-2020	Total/NA	Water	353.2	

Analysis Batch: 539189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	353.2	
480-171837-2	MW-7-3-2020	Total/NA	Water	353.2	

Analysis Batch: 539196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	353.2	
480-171962-2	MW-7-1-2020	Total/NA	Water	353.2	
480-171962-5	MW-8-4-2020	Total/NA	Water	353.2	

Analysis Batch: 539197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	353.2	
480-171962-2	MW-7-1-2020	Total/NA	Water	353.2	
480-171962-5	MW-8-4-2020	Total/NA	Water	353.2	

Analysis Batch: 539282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	350.1	
480-171962-2	MW-7-1-2020	Total/NA	Water	350.1	
480-171962-5	MW-8-4-2020	Total/NA	Water	350.1	
MB 480-539282/27	Method Blank	Total/NA	Water	350.1	
MB 480-539282/3	Method Blank	Total/NA	Water	350.1	
LCS 480-539282/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-539282/4	Lab Control Sample	Total/NA	Water	350.1	
480-171962-5 MS	MW-8-4-2020	Total/NA	Water	350.1	
480-171962-5 DU	MW-8-4-2020	Total/NA	Water	350.1	

Analysis Batch: 539319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	300.0	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	300.0	
480-171808-3	MW-6-2-2020	Total/NA	Water	300.0	
MB 480-539319/4	Method Blank	Total/NA	Water	300.0	
LCS 480-539319/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 539375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	SM 4500 S2 F	
480-171962-2	MW-7-1-2020	Total/NA	Water	SM 4500 S2 F	
480-171962-5	MW-8-4-2020	Total/NA	Water	SM 4500 S2 F	
MB 480-539375/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-539375/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry

Analysis Batch: 539470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	300.0	
480-171837-2	MW-7-3-2020	Total/NA	Water	300.0	
480-171962-1	MW-7-4-2020	Total/NA	Water	300.0	
480-171962-2	MW-7-1-2020	Total/NA	Water	300.0	
480-171962-5	MW-8-4-2020	Total/NA	Water	300.0	
MB 480-539470/28	Method Blank	Total/NA	Water	300.0	
MB 480-539470/4	Method Blank	Total/NA	Water	300.0	
LCS 480-539470/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-539470/3	Lab Control Sample	Total/NA	Water	300.0	
480-171962-5 MS	MW-8-4-2020	Total/NA	Water	300.0	
480-171962-5 MSD	MW-8-4-2020	Total/NA	Water	300.0	

Analysis Batch: 539495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	9060A	
480-171962-2	MW-7-1-2020	Total/NA	Water	9060A	
480-171962-5	MW-8-4-2020	Total/NA	Water	9060A	
MB 480-539495/4	Method Blank	Total/NA	Water	9060A	
LCS 480-539495/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 539510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	350.1	
480-172007-2	MW-10-3-2020	Total/NA	Water	350.1	
480-172007-4	MW-10-2-2020	Total/NA	Water	350.1	
MB 480-539510/27	Method Blank	Total/NA	Water	350.1	
MB 480-539510/51	Method Blank	Total/NA	Water	350.1	
LCS 480-539510/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-539510/52	Lab Control Sample	Total/NA	Water	350.1	
480-172007-1 MS	TK-6-2020	Total/NA	Water	350.1	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	350.1	

Analysis Batch: 539531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	353.2	
480-172007-2	MW-10-3-2020	Total/NA	Water	353.2	
480-172007-4	MW-10-2-2020	Total/NA	Water	353.2	

Analysis Batch: 539532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-4	MW-10-2-2020	Total/NA	Water	353.2	

Analysis Batch: 539534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	353.2	
480-172007-2	MW-10-3-2020	Total/NA	Water	353.2	
MB 480-539534/27	Method Blank	Total/NA	Water	353.2	
MB 480-539534/3	Method Blank	Total/NA	Water	353.2	
LCS 480-539534/28	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-539534/4	Lab Control Sample	Total/NA	Water	353.2	
480-172007-1 MS	TK-6-2020	Total/NA	Water	353.2	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 539534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1 MSD	TK-6-2020	Total/NA	Water	353.2	

Analysis Batch: 539592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	350.1	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	350.1	
480-172031-3	MW-7-6-2020	Total/NA	Water	350.1	
MB 480-539592/3	Method Blank	Total/NA	Water	350.1	
LCS 480-539592/4	Lab Control Sample	Total/NA	Water	350.1	
480-172031-3 MS	MW-7-6-2020	Total/NA	Water	350.1	
480-172031-3 DU	MW-7-6-2020	Total/NA	Water	350.1	

Analysis Batch: 539619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-2	MW-7-1-2020	Total/NA	Water	300.0	
480-172007-1	TK-6-2020	Total/NA	Water	300.0	
480-172007-2	MW-10-3-2020	Total/NA	Water	300.0	
480-172007-4	MW-10-2-2020	Total/NA	Water	300.0	
480-172031-1	MW-7-7-2020	Total/NA	Water	300.0	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	300.0	
480-172031-3	MW-7-6-2020	Total/NA	Water	300.0	
MB 480-539619/4	Method Blank	Total/NA	Water	300.0	
LCS 480-539619/3	Lab Control Sample	Total/NA	Water	300.0	
480-172007-1 MS	TK-6-2020	Total/NA	Water	300.0	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	300.0	
480-172031-3 MS	MW-7-6-2020	Total/NA	Water	300.0	

Analysis Batch: 539670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	9060A	
480-172007-2	MW-10-3-2020	Total/NA	Water	9060A	
480-172007-4	MW-10-2-2020	Total/NA	Water	9060A	
MB 480-539670/27	Method Blank	Total/NA	Water	9060A	
MB 480-539670/4	Method Blank	Total/NA	Water	9060A	
LCS 480-539670/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-539670/5	Lab Control Sample	Total/NA	Water	9060A	
480-172007-1 MS	TK-6-2020	Total/NA	Water	9060A	
480-172007-1 MSD	TK-6-2020	Total/NA	Water	9060A	

Analysis Batch: 539714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-2	MW-7-A-6-2020	Total/NA	Water	353.2	
480-172031-3	MW-7-6-2020	Total/NA	Water	353.2	
MB 480-539714/3	Method Blank	Total/NA	Water	353.2	
LCS 480-539714/4	Lab Control Sample	Total/NA	Water	353.2	
480-172031-3 MS	MW-7-6-2020	Total/NA	Water	353.2	
480-172031-3 DU	MW-7-6-2020	Total/NA	Water	353.2	

Analysis Batch: 539716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	353.2	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 539716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-2	MW-7-A-6-2020	Total/NA	Water	353.2	
480-172031-3	MW-7-6-2020	Total/NA	Water	353.2	

Analysis Batch: 539721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	353.2	

Analysis Batch: 539782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-2	MW-7-A-6-2020	Total/NA	Water	9060A	
480-172031-3	MW-7-6-2020	Total/NA	Water	9060A	
MB 480-539782/4	Method Blank	Total/NA	Water	9060A	
LCS 480-539782/5	Lab Control Sample	Total/NA	Water	9060A	
480-172031-2 DU	MW-7-A-6-2020	Total/NA	Water	9060A	

Analysis Batch: 539898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	353.2	
480-172156-2	MW-7-5-2020	Total/NA	Water	353.2	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	353.2	

Analysis Batch: 539899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-3	MW-7-C-2-2020	Total/NA	Water	353.2	

Analysis Batch: 539901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171808-1	MW-6-1-2020	Total/NA	Water	SM 2320B	
480-171808-2	MW-6-F-8-2020	Total/NA	Water	SM 2320B	
480-171808-3	MW-6-2-2020	Total/NA	Water	SM 2320B	
MB 480-539901/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-539901/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-171808-2 MS	MW-6-F-8-2020	Total/NA	Water	SM 2320B	
480-171808-2 DU	MW-6-F-8-2020	Total/NA	Water	SM 2320B	

Analysis Batch: 539904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	353.2	
480-172156-2	MW-7-5-2020	Total/NA	Water	353.2	
MB 480-539904/3	Method Blank	Total/NA	Water	353.2	
LCS 480-539904/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 539915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	350.1	
480-172156-2	MW-7-5-2020	Total/NA	Water	350.1	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	350.1	
MB 480-539915/3	Method Blank	Total/NA	Water	350.1	
MB 480-539915/51	Method Blank	Total/NA	Water	350.1	
LCS 480-539915/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-539915/52	Lab Control Sample	Total/NA	Water	350.1	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 539915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-3 MS	MW-7-C-2-2020	Total/NA	Water	350.1	
480-172156-3 DU	MW-7-C-2-2020	Total/NA	Water	350.1	

Analysis Batch: 540067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172031-1	MW-7-7-2020	Total/NA	Water	9060A	
MB 480-540067/4	Method Blank	Total/NA	Water	9060A	
LCS 480-540067/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 540076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	353.2	
480-172221-2	MW-8-1-2020	Total/NA	Water	353.2	
480-172221-3	MW-8-2-2020	Total/NA	Water	353.2	
480-172221-5	MW-8-3-2020	Total/NA	Water	353.2	
MB 480-540076/21	Method Blank	Total/NA	Water	353.2	
MB 480-540076/3	Method Blank	Total/NA	Water	353.2	
LCS 480-540076/22	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-540076/4	Lab Control Sample	Total/NA	Water	353.2	
480-172221-3 MS	MW-8-2-2020	Total/NA	Water	353.2	
480-172221-3 DU	MW-8-2-2020	Total/NA	Water	353.2	

Analysis Batch: 540081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	353.2	
480-172221-2	MW-8-1-2020	Total/NA	Water	353.2	
480-172221-3	MW-8-2-2020	Total/NA	Water	353.2	
480-172221-5	MW-8-3-2020	Total/NA	Water	353.2	

Analysis Batch: 540216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	300.0	
480-172156-2	MW-7-5-2020	Total/NA	Water	300.0	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	300.0	
MB 480-540216/4	Method Blank	Total/NA	Water	300.0	
LCS 480-540216/3	Lab Control Sample	Total/NA	Water	300.0	
480-172156-2 MS	MW-7-5-2020	Total/NA	Water	300.0	
480-172156-2 MSD	MW-7-5-2020	Total/NA	Water	300.0	
480-172156-3 MS	MW-7-C-2-2020	Total/NA	Water	300.0	

Analysis Batch: 540236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	SM 4500 S2 F	
480-172007-2	MW-10-3-2020	Total/NA	Water	SM 4500 S2 F	
480-172007-4	MW-10-2-2020	Total/NA	Water	SM 4500 S2 F	
480-172031-1	MW-7-7-2020	Total/NA	Water	SM 4500 S2 F	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	SM 4500 S2 F	
480-172031-3	MW-7-6-2020	Total/NA	Water	SM 4500 S2 F	
MB 480-540236/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-540236/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-172007-1 MS	TK-6-2020	Total/NA	Water	SM 4500 S2 F	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 540236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1 MSD	TK-6-2020	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 540323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	300.0	
480-172221-2	MW-8-1-2020	Total/NA	Water	300.0	
480-172221-3	MW-8-2-2020	Total/NA	Water	300.0	
480-172221-5	MW-8-3-2020	Total/NA	Water	300.0	
MB 480-540323/4	Method Blank	Total/NA	Water	300.0	
LCS 480-540323/3	Lab Control Sample	Total/NA	Water	300.0	
480-172221-5 MS	MW-8-3-2020	Total/NA	Water	300.0	

Analysis Batch: 540333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	SM 2320B	
480-171837-2	MW-7-3-2020	Total/NA	Water	SM 2320B	

Analysis Batch: 540338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	350.1	
480-172221-2	MW-8-1-2020	Total/NA	Water	350.1	
480-172221-3	MW-8-2-2020	Total/NA	Water	350.1	
480-172221-5	MW-8-3-2020	Total/NA	Water	350.1	
MB 480-540338/27	Method Blank	Total/NA	Water	350.1	
MB 480-540338/75	Method Blank	Total/NA	Water	350.1	
LCS 480-540338/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-540338/76	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 540344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	9060A	
480-172156-2	MW-7-5-2020	Total/NA	Water	9060A	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	9060A	
MB 480-540344/27	Method Blank	Total/NA	Water	9060A	
MB 480-540344/4	Method Blank	Total/NA	Water	9060A	
LCS 480-540344/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-540344/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 540364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	300.0	
480-172300-2	MW-9-12-2020	Total/NA	Water	300.0	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	300.0	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	300.0	
480-172300-5	GW-DUP-2020	Total/NA	Water	300.0	
MB 480-540364/4	Method Blank	Total/NA	Water	300.0	
LCS 480-540364/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 540394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	SM 4500 S2 F	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 540394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-2	MW-7-5-2020	Total/NA	Water	SM 4500 S2 F	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	SM 4500 S2 F	
480-172221-1	MW-8-003-B-2020	Total/NA	Water	SM 4500 S2 F	
480-172221-2	MW-8-1-2020	Total/NA	Water	SM 4500 S2 F	
480-172221-3	MW-8-2-2020	Total/NA	Water	SM 4500 S2 F	
480-172221-5	MW-8-3-2020	Total/NA	Water	SM 4500 S2 F	
MB 480-540394/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-540394/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-540394/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-540394/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-172221-1 MS	MW-8-003-B-2020	Total/NA	Water	SM 4500 S2 F	
480-172221-5 DU	MW-8-3-2020	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 540455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	350.1	
480-172300-2	MW-9-12-2020	Total/NA	Water	350.1	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	350.1	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	350.1	
480-172300-5	GW-DUP-2020	Total/NA	Water	350.1	
MB 480-540455/27	Method Blank	Total/NA	Water	350.1	
MB 480-540455/3	Method Blank	Total/NA	Water	350.1	
LCS 480-540455/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-540455/4	Lab Control Sample	Total/NA	Water	350.1	
480-172300-5 MS	GW-DUP-2020	Total/NA	Water	350.1	
480-172300-5 DU	GW-DUP-2020	Total/NA	Water	350.1	

Analysis Batch: 540562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171837-1	MW-7-2-2020	Total/NA	Water	SM 2320B	
480-171837-2	MW-7-3-2020	Total/NA	Water	SM 2320B	
MB 480-540562/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-540562/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 540616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	9060A	
480-172221-2	MW-8-1-2020	Total/NA	Water	9060A	
480-172221-3	MW-8-2-2020	Total/NA	Water	9060A	
480-172221-5	MW-8-3-2020	Total/NA	Water	9060A	
MB 480-540616/27	Method Blank	Total/NA	Water	9060A	
MB 480-540616/4	Method Blank	Total/NA	Water	9060A	
LCS 480-540616/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-540616/5	Lab Control Sample	Total/NA	Water	9060A	
480-172221-1 DU	MW-8-003-B-2020	Total/NA	Water	9060A	

Analysis Batch: 540651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171962-1	MW-7-4-2020	Total/NA	Water	SM 2320B	
480-171962-2	MW-7-1-2020	Total/NA	Water	SM 2320B	
480-171962-5	MW-8-4-2020	Total/NA	Water	SM 2320B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 540651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172007-1	TK-6-2020	Total/NA	Water	SM 2320B	
480-172007-2	MW-10-3-2020	Total/NA	Water	SM 2320B	
480-172007-4	MW-10-2-2020	Total/NA	Water	SM 2320B	
480-172031-1	MW-7-7-2020	Total/NA	Water	SM 2320B	
480-172031-2	MW-7-A-6-2020	Total/NA	Water	SM 2320B	
480-172031-3	MW-7-6-2020	Total/NA	Water	SM 2320B	
MB 480-540651/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-540651/4	Method Blank	Total/NA	Water	SM 2320B	
MB 480-540651/54	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-540651/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-540651/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-540651/55	Lab Control Sample	Total/NA	Water	SM 2320B	
480-171962-1 MS	MW-7-4-2020	Total/NA	Water	SM 2320B	
480-172031-1 MS	MW-7-7-2020	Total/NA	Water	SM 2320B	
480-171962-1 DU	MW-7-4-2020	Total/NA	Water	SM 2320B	
480-172031-1 DU	MW-7-7-2020	Total/NA	Water	SM 2320B	

Analysis Batch: 540816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	9060A	
480-172300-2	MW-9-12-2020	Total/NA	Water	9060A	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	9060A	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	9060A	
480-172300-5	GW-DUP-2020	Total/NA	Water	9060A	
MB 480-540816/28	Method Blank	Total/NA	Water	9060A	
MB 480-540816/4	Method Blank	Total/NA	Water	9060A	
LCS 480-540816/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-540816/5	Lab Control Sample	Total/NA	Water	9060A	
480-172300-4 MS	BLDG-10-MW-1-2020	Total/NA	Water	9060A	
480-172300-5 DU	GW-DUP-2020	Total/NA	Water	9060A	

Analysis Batch: 540827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172156-1	MW-7-8-2020	Total/NA	Water	SM 2320B	
480-172156-2	MW-7-5-2020	Total/NA	Water	SM 2320B	
480-172156-3	MW-7-C-2-2020	Total/NA	Water	SM 2320B	
480-172221-1	MW-8-003-B-2020	Total/NA	Water	SM 2320B	
480-172221-2	MW-8-1-2020	Total/NA	Water	SM 2320B	
480-172221-3	MW-8-2-2020	Total/NA	Water	SM 2320B	
480-172221-5	MW-8-3-2020	Total/NA	Water	SM 2320B	
480-172300-1	MW-9-101-A-2020	Total/NA	Water	SM 2320B	
480-172300-2	MW-9-12-2020	Total/NA	Water	SM 2320B	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	SM 2320B	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	SM 2320B	
480-172300-5	GW-DUP-2020	Total/NA	Water	SM 2320B	
MB 480-540827/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-540827/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-540827/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-540827/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-172156-2 MS	MW-7-5-2020	Total/NA	Water	SM 2320B	
480-172156-2 DU	MW-7-5-2020	Total/NA	Water	SM 2320B	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

General Chemistry

Analysis Batch: 540948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172221-1	MW-8-003-B-2020	Total/NA	Water	300.0	
480-172300-2	MW-9-12-2020	Total/NA	Water	300.0	
MB 480-540948/28	Method Blank	Total/NA	Water	300.0	
MB 480-540948/4	Method Blank	Total/NA	Water	300.0	
LCS 480-540948/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-540948/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 541070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-172300-1	MW-9-101-A-2020	Total/NA	Water	SM 4500 S2 F	
480-172300-2	MW-9-12-2020	Total/NA	Water	SM 4500 S2 F	
480-172300-3	MW-7-P-1-2020	Total/NA	Water	SM 4500 S2 F	
480-172300-4	BLDG-10-MW-1-2020	Total/NA	Water	SM 4500 S2 F	
480-172300-5	GW-DUP-2020	Total/NA	Water	SM 4500 S2 F	
MB 480-541070/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-541070/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-172300-2 MS	MW-9-12-2020	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-1-2020

Lab Sample ID: 480-171808-1

Date Collected: 06/29/20 11:15

Matrix: Water

Date Received: 06/29/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538818	07/01/20 14:05	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	156441	07/02/20 17:11	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539136	07/02/20 21:18	DSC	TAL BUF
Total/NA	Prep	3005A			538780	07/01/20 08:50	KMP	TAL BUF
Total/NA	Analysis	6010C		1	539015	07/01/20 19:29	LMH	TAL BUF
Total/NA	Analysis	300.0		10	539319	07/06/20 17:13	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	538736	06/30/20 13:20	CLT	TAL BUF
Total/NA	Analysis	353.2		1	538761	06/30/20 15:10	BEF	TAL BUF
Total/NA	Analysis	353.2		1	538932	06/30/20 15:10	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539113	07/02/20 00:05	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	539901	07/09/20 13:34	BEF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	538753	06/30/20 14:15	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539112	07/02/20 11:40	MJB	TAL BUF

Client Sample ID: MW-6-F-8-2020

Lab Sample ID: 480-171808-2

Date Collected: 06/29/20 12:45

Matrix: Water

Date Received: 06/29/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	538818	07/01/20 14:28	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	156441	07/02/20 17:19	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539136	07/02/20 21:37	DSC	TAL BUF
Total/NA	Prep	3005A			538780	07/01/20 08:50	KMP	TAL BUF
Total/NA	Analysis	6010C		5	539089	07/02/20 09:40	LMH	TAL BUF
Total/NA	Prep	3005A			538780	07/01/20 08:50	KMP	TAL BUF
Total/NA	Analysis	6010C		1	539015	07/01/20 19:33	LMH	TAL BUF
Total/NA	Analysis	300.0		50	539319	07/06/20 17:21	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	538736	06/30/20 13:21	CLT	TAL BUF
Total/NA	Analysis	353.2		1	538761	06/30/20 15:11	BEF	TAL BUF
Total/NA	Analysis	353.2		1	538932	06/30/20 15:11	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539113	07/02/20 00:59	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	539901	07/09/20 13:41	BEF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	538753	06/30/20 14:18	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539112	07/02/20 11:40	MJB	TAL BUF

Client Sample ID: MW-6-2-2020

Lab Sample ID: 480-171808-3

Date Collected: 06/29/20 14:15

Matrix: Water

Date Received: 06/29/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538818	07/01/20 14:51	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	156441	07/02/20 17:28	MJZ	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-6-2-2020

Lab Sample ID: 480-171808-3

Date Collected: 06/29/20 14:15

Matrix: Water

Date Received: 06/29/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	538739	07/01/20 00:30	DSC	TAL BUF
Total/NA	Prep	3005A			538780	07/01/20 08:50	KMP	TAL BUF
Total/NA	Analysis	6010C		1	539015	07/01/20 19:37	LMH	TAL BUF
Total/NA	Analysis	300.0		20	539319	07/06/20 17:29	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	538736	06/30/20 13:22	CLT	TAL BUF
Total/NA	Analysis	353.2		1	538761	06/30/20 15:12	BEF	TAL BUF
Total/NA	Analysis	353.2		1	538932	06/30/20 15:12	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539113	07/02/20 01:53	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	539901	07/09/20 14:04	BEF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	538753	06/30/20 14:20	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539112	07/02/20 11:40	MJB	TAL BUF

Client Sample ID: TRIP BLANK 062920

Lab Sample ID: 480-171808-4

Date Collected: 06/29/20 00:00

Matrix: Water

Date Received: 06/29/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538818	07/01/20 15:14	AMM	TAL BUF

Client Sample ID: MW-7-2-2020

Lab Sample ID: 480-171837-1

Date Collected: 06/30/20 13:10

Matrix: Water

Date Received: 06/30/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538888	07/01/20 22:04	LCH	TAL BUF
Total/NA	Analysis	RSK-175		1	156441	07/02/20 17:37	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539136	07/02/20 20:40	DSC	TAL BUF
Total/NA	Prep	3005A			539037	07/02/20 10:00	NSW	TAL BUF
Total/NA	Analysis	6010C		1	539260	07/02/20 19:28	AMH	TAL BUF
Total/NA	Analysis	300.0		5	539470	07/07/20 13:34	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	538926	07/01/20 12:46	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539188	07/01/20 12:12	CSS	TAL BUF
Total/NA	Analysis	353.2		1	539189	07/01/20 12:12	CSS	TAL BUF
Total/NA	Analysis	9060A		1	539113	07/02/20 02:20	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540333	07/10/20 01:49	BEF	TAL BUF
Total/NA	Analysis	SM 2320B		1	540562	07/15/20 12:56	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539112	07/02/20 11:40	MJB	TAL BUF

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-3-2020

Lab Sample ID: 480-171837-2

Date Collected: 06/30/20 14:15

Matrix: Water

Date Received: 06/30/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	538888	07/01/20 22:29	LCH	TAL BUF
Total/NA	Analysis	RSK-175		1	156441	07/02/20 17:45	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		22	539136	07/02/20 20:59	DSC	TAL BUF
Total/NA	Prep	3005A			539037	07/02/20 10:00	NSW	TAL BUF
Total/NA	Analysis	6010C		1	539260	07/02/20 19:46	AMH	TAL BUF
Total/NA	Prep	3005A			539037	07/02/20 10:00	NSW	TAL BUF
Total/NA	Analysis	6010C		10	539432	07/06/20 15:42	AMH	TAL BUF
Total/NA	Analysis	300.0		100	539470	07/07/20 13:42	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	538926	07/01/20 12:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539188	07/01/20 12:16	CSS	TAL BUF
Total/NA	Analysis	353.2		1	539189	07/01/20 12:16	CSS	TAL BUF
Total/NA	Analysis	9060A		1	539113	07/02/20 03:42	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540333	07/10/20 02:15	BEF	TAL BUF
Total/NA	Analysis	SM 2320B		1	540562	07/15/20 13:03	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539112	07/02/20 11:40	MJB	TAL BUF

Client Sample ID: TRIP BLANK 063020

Lab Sample ID: 480-171837-4

Date Collected: 06/30/20 00:00

Matrix: Water

Date Received: 06/30/20 15:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538888	07/01/20 22:54	LCH	TAL BUF

Client Sample ID: MW-7-4-2020

Lab Sample ID: 480-171962-1

Date Collected: 07/02/20 10:05

Matrix: Water

Date Received: 07/02/20 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539228	07/06/20 16:39	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156494	07/06/20 20:28	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539332	07/06/20 18:44	DSC	TAL BUF
Total/NA	Prep	3005A			539342	07/07/20 10:15	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539597	07/07/20 21:18	AMH	TAL BUF
Total/NA	Analysis	300.0		5	539470	07/07/20 15:19	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539282	07/06/20 09:21	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539196	07/03/20 10:10	JRF	TAL BUF
Total/NA	Analysis	353.2		1	539197	07/03/20 10:10	JRF	TAL BUF
Total/NA	Analysis	9060A		1	539495	07/03/20 22:14	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 17:15	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539375	07/06/20 14:33	MJB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-1-2020

Lab Sample ID: 480-171962-2

Date Collected: 07/02/20 11:15

Matrix: Water

Date Received: 07/02/20 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	539228	07/06/20 17:03	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156494	07/06/20 20:36	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539485	07/07/20 15:27	DSC	TAL BUF
Total/NA	Prep	3005A			539342	07/07/20 10:15	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539597	07/07/20 21:22	AMH	TAL BUF
Total/NA	Prep	3005A			539342	07/07/20 10:15	ADM	TAL BUF
Total/NA	Analysis	6010C		5	539799	07/08/20 15:41	AMH	TAL BUF
Total/NA	Analysis	300.0		20	539470	07/07/20 15:28	IMZ	TAL BUF
Total/NA	Analysis	300.0		50	539619	07/08/20 11:19	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539282	07/06/20 09:26	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539196	07/03/20 10:11	JRF	TAL BUF
Total/NA	Analysis	353.2		1	539197	07/03/20 10:11	JRF	TAL BUF
Total/NA	Analysis	9060A		1	539495	07/03/20 22:42	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 17:38	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539375	07/06/20 14:33	MJB	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171962-3

Date Collected: 07/02/20 00:00

Matrix: Water

Date Received: 07/02/20 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539228	07/06/20 17:27	CRL	TAL BUF

Client Sample ID: MW-8-4-2020

Lab Sample ID: 480-171962-5

Date Collected: 07/02/20 12:20

Matrix: Water

Date Received: 07/02/20 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	539228	07/06/20 17:50	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156494	07/06/20 20:45	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	539332	07/06/20 19:22	DSC	TAL BUF
Total/NA	Prep	3005A			539342	07/07/20 10:15	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539597	07/07/20 21:26	AMH	TAL BUF
Total/NA	Prep	3005A			539342	07/07/20 10:15	ADM	TAL BUF
Total/NA	Analysis	6010C		5	539799	07/08/20 15:45	AMH	TAL BUF
Total/NA	Analysis	300.0		50	539470	07/07/20 15:36	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539282	07/06/20 09:27	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539196	07/03/20 10:12	JRF	TAL BUF
Total/NA	Analysis	353.2		1	539197	07/03/20 10:12	JRF	TAL BUF
Total/NA	Analysis	9060A		1	539495	07/03/20 23:10	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 17:45	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	539375	07/06/20 14:33	MJB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: TK-6-2020

Date Collected: 07/06/20 12:00

Date Received: 07/06/20 15:05

Lab Sample ID: 480-172007-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539745	07/09/20 11:40	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 15:25	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539667	07/08/20 16:01	DSC	TAL BUF
Total/NA	Prep	3005A			539591	07/08/20 10:03	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539959	07/09/20 16:09	LMH	TAL BUF
Total/NA	Prep	3005A			539591	07/08/20 10:03	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540188	07/10/20 14:32	LMH	TAL BUF
Total/NA	Analysis	300.0		20	539619	07/08/20 12:00	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539510	07/07/20 13:47	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539531	07/07/20 16:33	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539534	07/07/20 16:33	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539670	07/08/20 10:25	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 20:10	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Client Sample ID: MW-10-3-2020

Date Collected: 07/06/20 13:15

Date Received: 07/06/20 15:05

Lab Sample ID: 480-172007-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539745	07/09/20 12:03	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 15:51	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539667	07/08/20 17:13	DSC	TAL BUF
Total/NA	Prep	3005A			539591	07/08/20 10:03	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539959	07/09/20 16:39	LMH	TAL BUF
Total/NA	Analysis	300.0		5	539619	07/08/20 11:27	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539510	07/07/20 13:49	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539531	07/07/20 14:58	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539534	07/07/20 16:48	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539670	07/08/20 09:04	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 20:17	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Client Sample ID: TRIP BLANK-1

Date Collected: 07/06/20 00:00

Date Received: 07/06/20 15:05

Lab Sample ID: 480-172007-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539745	07/09/20 12:26	CRL	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-10-2-2020

Lab Sample ID: 480-172007-4

Date Collected: 07/06/20 14:30

Matrix: Water

Date Received: 07/06/20 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	539745	07/09/20 12:50	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 15:59	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	539667	07/08/20 17:32	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	88	539857	07/09/20 15:24	DSC	TAL BUF
Total/NA	Prep	3005A			539591	07/08/20 10:03	ADM	TAL BUF
Total/NA	Analysis	6010C		5	540540	07/15/20 10:35	LMH	TAL BUF
Total/NA	Prep	3005A			539591	07/08/20 10:03	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539959	07/09/20 16:43	LMH	TAL BUF
Total/NA	Analysis	300.0		50	539619	07/08/20 11:35	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539510	07/07/20 13:50	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539531	07/07/20 15:00	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539532	07/07/20 15:00	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539670	07/08/20 11:47	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 20:24	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Client Sample ID: TRIP BLANK-2

Lab Sample ID: 480-172007-6

Date Collected: 07/06/20 00:00

Matrix: Water

Date Received: 07/06/20 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539745	07/09/20 13:13	CRL	TAL BUF

Client Sample ID: MW-7-7-2020

Lab Sample ID: 480-172031-1

Date Collected: 07/07/20 10:30

Matrix: Water

Date Received: 07/07/20 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	539745	07/09/20 14:45	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 16:08	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	539667	07/08/20 17:51	DSC	TAL BUF
Total/NA	Prep	3005A			539701	07/09/20 08:51	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539962	07/09/20 21:18	LMH	TAL BUF
Total/NA	Prep	3005A			539701	07/09/20 08:51	ADM	TAL BUF
Total/NA	Analysis	6010C		5	540190	07/10/20 15:09	LMH	TAL BUF
Total/NA	Analysis	300.0		50	539619	07/08/20 11:43	IMZ	TAL BUF
Total/NA	Analysis	350.1		2	539592	07/08/20 08:48	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539716	07/08/20 13:34	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539721	07/08/20 13:34	BEF	TAL BUF
Total/NA	Analysis	9060A		1	540067	07/09/20 18:53	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 22:22	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-A-6-2020

Lab Sample ID: 480-172031-2

Date Collected: 07/07/20 12:30

Matrix: Water

Date Received: 07/07/20 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	539745	07/09/20 15:08	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 16:17	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	539667	07/08/20 18:10	DSC	TAL BUF
Total/NA	Prep	3005A			539701	07/09/20 08:51	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539962	07/09/20 21:22	LMH	TAL BUF
Total/NA	Analysis	300.0		20	539619	07/08/20 11:51	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539592	07/08/20 08:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539716	07/08/20 16:14	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539714	07/08/20 16:14	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539782	07/08/20 20:05	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 22:45	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Client Sample ID: MW-7-6-2020

Lab Sample ID: 480-172031-3

Date Collected: 07/07/20 13:45

Matrix: Water

Date Received: 07/07/20 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	539745	07/09/20 15:31	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 16:25	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	539857	07/09/20 16:07	DSC	TAL BUF
Total/NA	Prep	3005A			539701	07/09/20 08:51	ADM	TAL BUF
Total/NA	Analysis	6010C		1	539962	07/09/20 21:25	LMH	TAL BUF
Total/NA	Prep	3005A			539701	07/09/20 08:51	ADM	TAL BUF
Total/NA	Analysis	6010C		10	540190	07/10/20 15:13	LMH	TAL BUF
Total/NA	Analysis	300.0		50	539619	07/08/20 12:40	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539592	07/08/20 08:45	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539716	07/08/20 16:15	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539714	07/08/20 16:15	BEF	TAL BUF
Total/NA	Analysis	9060A		1	539782	07/08/20 21:01	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540651	07/15/20 22:52	BEF	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540236	07/13/20 13:07	MJB	TAL BUF

Client Sample ID: MW-7-8-2020

Lab Sample ID: 480-172156-1

Date Collected: 07/09/20 08:15

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	540161	07/13/20 15:06	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 13:40	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/15/20 23:23	DSC	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-8-2020

Lab Sample ID: 480-172156-1

Date Collected: 07/09/20 08:15

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			539993	07/13/20 07:29	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540509	07/14/20 21:26	LMH	TAL BUF
Total/NA	Prep	3005A			539993	07/13/20 07:29	ADM	TAL BUF
Total/NA	Analysis	6010C		10	540675	07/15/20 15:11	LMH	TAL BUF
Total/NA	Analysis	300.0		50	540216	07/13/20 15:44	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539915	07/10/20 07:42	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539898	07/09/20 21:49	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539904	07/09/20 21:49	BEF	TAL BUF
Total/NA	Analysis	9060A		1	540344	07/12/20 09:19	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 13:09	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: MW-7-5-2020

Lab Sample ID: 480-172156-2

Date Collected: 07/09/20 09:45

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	540303	07/14/20 15:51	RJF	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 13:49	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/15/20 16:28	DSC	TAL BUF
Total/NA	Prep	3005A			539993	07/13/20 07:29	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540509	07/14/20 21:41	LMH	TAL BUF
Total/NA	Prep	3005A			539993	07/13/20 07:29	ADM	TAL BUF
Total/NA	Analysis	6010C		10	540675	07/15/20 15:26	LMH	TAL BUF
Total/NA	Analysis	300.0		5	540216	07/13/20 15:52	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539915	07/10/20 07:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539898	07/09/20 21:50	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539904	07/09/20 21:50	BEF	TAL BUF
Total/NA	Analysis	9060A		1	540344	07/12/20 09:46	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 13:17	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: MW-7-C-2-2020

Lab Sample ID: 480-172156-3

Date Collected: 07/09/20 10:55

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	540161	07/13/20 15:53	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156758	07/13/20 13:58	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/15/20 16:47	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	11	540533	07/15/20 23:42	DSC	TAL BUF
Total/NA	Prep	3005A			539993	07/13/20 07:29	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540509	07/14/20 21:45	LMH	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-7-C-2-2020

Lab Sample ID: 480-172156-3

Date Collected: 07/09/20 10:55

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	540216	07/13/20 16:33	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	539915	07/10/20 07:43	CLT	TAL BUF
Total/NA	Analysis	353.2		1	539898	07/09/20 19:08	BEF	TAL BUF
Total/NA	Analysis	353.2		1	539899	07/09/20 19:08	BEF	TAL BUF
Total/NA	Analysis	9060A		1	540344	07/12/20 10:13	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 13:42	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: TripBlank

Lab Sample ID: 480-172156-4

Date Collected: 07/09/20 00:00

Matrix: Water

Date Received: 07/09/20 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	540161	07/13/20 16:16	CRL	TAL BUF

Client Sample ID: MW-8-003-B-2020

Lab Sample ID: 480-172221-1

Date Collected: 07/10/20 08:30

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	540161	07/13/20 16:40	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:52	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/16/20 00:01	DSC	TAL BUF
Total/NA	Prep	3005A			540269	07/14/20 10:05	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540677	07/15/20 15:52	AMH	TAL BUF
Total/NA	Prep	3005A			540269	07/14/20 10:05	ADM	TAL BUF
Total/NA	Analysis	6010C		10	540935	07/16/20 16:46	AMH	TAL BUF
Total/NA	Analysis	300.0		5	540323	07/14/20 13:52	IMZ	TAL BUF
Total/NA	Analysis	300.0		100	540948	07/17/20 22:22	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540338	07/14/20 10:10	CLT	TAL BUF
Total/NA	Analysis	353.2		1	540081	07/11/20 11:31	CSS	TAL BUF
Total/NA	Analysis	353.2		1	540076	07/11/20 12:03	CSS	TAL BUF
Total/NA	Analysis	9060A		1	540616	07/15/20 02:10	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 14:53	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: MW-8-1-2020

Lab Sample ID: 480-172221-2

Date Collected: 07/10/20 10:50

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	540303	07/14/20 16:16	RJF	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 15:01	MJZ	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-1-2020

Lab Sample ID: 480-172221-2

Date Collected: 07/10/20 10:50

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	540533	07/15/20 17:44	DSC	TAL BUF
Total/NA	Prep	3005A			540269	07/14/20 10:05	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540677	07/15/20 15:56	AMH	TAL BUF
Total/NA	Analysis	300.0		20	540323	07/14/20 14:00	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540338	07/14/20 10:11	CLT	TAL BUF
Total/NA	Analysis	353.2		1	540081	07/11/20 11:32	CSS	TAL BUF
Total/NA	Analysis	353.2		1	540076	07/11/20 12:04	CSS	TAL BUF
Total/NA	Analysis	9060A		1	540616	07/15/20 03:05	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 15:01	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: MW-8-2-2020

Lab Sample ID: 480-172221-3

Date Collected: 07/10/20 11:55

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	540161	07/13/20 17:26	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	80	540303	07/14/20 16:40	RJF	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 15:10	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/15/20 18:03	DSC	TAL BUF
Total/NA	Prep	3005A			540269	07/14/20 10:05	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540677	07/15/20 16:11	AMH	TAL BUF
Total/NA	Analysis	300.0		5	540323	07/14/20 14:08	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540338	07/14/20 10:12	CLT	TAL BUF
Total/NA	Analysis	353.2		1	540081	07/11/20 11:33	CSS	TAL BUF
Total/NA	Analysis	353.2		1	540076	07/11/20 12:05	CSS	TAL BUF
Total/NA	Analysis	9060A		1	540616	07/15/20 03:32	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 15:08	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: Trip Blank 071020

Lab Sample ID: 480-172221-4

Date Collected: 07/10/20 00:00

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	540282	07/14/20 13:20	CRL	TAL BUF

Client Sample ID: MW-8-3-2020

Lab Sample ID: 480-172221-5

Date Collected: 07/10/20 12:20

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	540161	07/13/20 17:50	CRL	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-8-3-2020

Lab Sample ID: 480-172221-5

Date Collected: 07/10/20 12:20

Matrix: Water

Date Received: 07/10/20 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	156860	07/15/20 15:18	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		22	540533	07/15/20 18:22	DSC	TAL BUF
Total/NA	Prep	3005A			540269	07/14/20 10:05	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540677	07/15/20 16:15	AMH	TAL BUF
Total/NA	Analysis	300.0		20	540323	07/14/20 14:16	IMZ	TAL BUF
Total/NA	Analysis	350.1		5	540338	07/14/20 10:55	CLT	TAL BUF
Total/NA	Analysis	353.2		1	540081	07/11/20 11:34	CSS	TAL BUF
Total/NA	Analysis	353.2		1	540076	07/11/20 12:06	CSS	TAL BUF
Total/NA	Analysis	9060A		1	540616	07/15/20 04:00	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 15:15	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	540394	07/14/20 13:30	MJB	TAL BUF

Client Sample ID: MW-9-101-A-2020

Lab Sample ID: 480-172300-1

Date Collected: 07/13/20 10:25

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541134	07/20/20 13:07	AMM	TAL BUF
Total/NA	Prep	3510C			540460	07/15/20 09:00	JMP	TAL BUF
Total/NA	Analysis	8270D		1	541066	07/20/20 00:50	RJS	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:09	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540701	07/16/20 13:04	DSC	TAL BUF
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540863	07/17/20 03:32	AMH	TAL BUF
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		5	541120	07/17/20 16:22	AMH	TAL BUF
Total/NA	Analysis	300.0		50	540364	07/14/20 23:29	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540455	07/15/20 08:08	CLT	TAL BUF
Total/NA	Analysis	353.2-1993 R2.0		1	443602	07/20/20 18:23	JMB	TAL CAN
Total/NA	Analysis	9060A		1	540816	07/16/20 05:26	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 15:58	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	541070	07/19/20 12:45	MJB	TAL BUF

Client Sample ID: MW-9-12-2020

Lab Sample ID: 480-172300-2

Date Collected: 07/13/20 11:30

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541134	07/20/20 13:30	AMM	TAL BUF
Total/NA	Prep	3510C			540460	07/15/20 09:00	JMP	TAL BUF
Total/NA	Analysis	8270D		1	541178	07/20/20 18:28	RJS	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:18	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540533	07/15/20 18:59	DSC	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: MW-9-12-2020

Lab Sample ID: 480-172300-2

Date Collected: 07/13/20 11:30

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540863	07/17/20 03:36	AMH	TAL BUF
Total/NA	Analysis	300.0		10	540364	07/14/20 23:43	IMZ	TAL BUF
Total/NA	Analysis	300.0		20	540948	07/17/20 20:29	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540455	07/15/20 08:09	CLT	TAL BUF
Total/NA	Analysis	353.2-1993 R2.0		1	443602	07/20/20 18:25	JMB	TAL CAN
Total/NA	Analysis	9060A		1	540816	07/16/20 05:58	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 16:06	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	541070	07/19/20 12:45	MJB	TAL BUF

Client Sample ID: MW-7-P-1-2020

Lab Sample ID: 480-172300-3

Date Collected: 07/13/20 13:00

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541134	07/20/20 13:53	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:26	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	540533	07/15/20 19:18	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	88	540701	07/16/20 13:23	DSC	TAL BUF
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540863	07/17/20 03:52	AMH	TAL BUF
Total/NA	Analysis	300.0		50	540364	07/14/20 23:57	IMZ	TAL BUF
Total/NA	Analysis	350.1		100	540455	07/15/20 08:18	CLT	TAL BUF
Total/NA	Analysis	353.2-1993 R2.0		1	443602	07/20/20 18:28	JMB	TAL CAN
Total/NA	Analysis	9060A		1	540816	07/16/20 06:29	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 16:14	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	541070	07/19/20 12:45	MJB	TAL BUF

Client Sample ID: BLDG-10-MW-1-2020

Lab Sample ID: 480-172300-4

Date Collected: 07/13/20 14:40

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	541134	07/20/20 14:16	AMM	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:35	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		1	540701	07/16/20 13:42	DSC	TAL BUF
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540863	07/17/20 03:56	AMH	TAL BUF
Total/NA	Analysis	300.0		10	540364	07/15/20 00:11	IMZ	TAL BUF
Total/NA	Analysis	350.1		1	540455	07/15/20 08:12	CLT	TAL BUF
Total/NA	Analysis	353.2-1993 R2.0		1	443602	07/20/20 18:29	JMB	TAL CAN
Total/NA	Analysis	9060A		1	540816	07/16/20 09:02	CLA	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Client Sample ID: BLDG-10-MW-1-2020

Lab Sample ID: 480-172300-4

Date Collected: 07/13/20 14:40

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 16:21	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	541070	07/19/20 12:45	MJB	TAL BUF

Client Sample ID: GW-DUP-2020

Lab Sample ID: 480-172300-5

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	541461	07/22/20 13:33	CRL	TAL BUF
Total/NA	Analysis	RSK-175		1	156860	07/15/20 14:44	MJZ	TAL BUR
Total/NA	Analysis	RSK-175		11	540533	07/15/20 19:56	DSC	TAL BUF
Total/NA	Analysis	RSK-175	DL	88	540701	07/16/20 14:01	DSC	TAL BUF
Total/NA	Prep	3005A			540573	07/16/20 10:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	540863	07/17/20 04:00	AMH	TAL BUF
Total/NA	Analysis	300.0		50	540364	07/14/20 23:15	IMZ	TAL BUF
Total/NA	Analysis	350.1		200	540455	07/15/20 08:25	CLT	TAL BUF
Total/NA	Analysis	353.2-1993 R2.0		1	443602	07/20/20 18:30	JMB	TAL CAN
Total/NA	Analysis	9060A		1	540816	07/16/20 10:04	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	540827	07/16/20 16:29	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	541070	07/19/20 12:45	MJB	TAL BUF

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 480-172300-6

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541047	07/19/20 11:41	CDC	TAL BUF

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 480-172300-7

Date Collected: 07/13/20 00:00

Matrix: Water

Date Received: 07/13/20 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541047	07/19/20 12:04	CDC	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, 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	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20
Wisconsin	State	399133350	08-31-21

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Method Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
353.2-1993 R2.0	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CAN
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL 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:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 058507, GM Lockport SSOW 256041

Job ID: 480-171808-1
SDG: BCP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-171808-1	MW-6-1-2020	Water	06/29/20 11:15	06/29/20 15:02	
480-171808-2	MW-6-F-8-2020	Water	06/29/20 12:45	06/29/20 15:02	
480-171808-3	MW-6-2-2020	Water	06/29/20 14:15	06/29/20 15:02	
480-171808-4	TRIP BLANK 062920	Water	06/29/20 00:00	06/29/20 15:02	
480-171837-1	MW-7-2-2020	Water	06/30/20 13:10	06/30/20 15:02	
480-171837-2	MW-7-3-2020	Water	06/30/20 14:15	06/30/20 15:02	
480-171837-4	TRIP BLANK 063020	Water	06/30/20 00:00	06/30/20 15:02	
480-171962-1	MW-7-4-2020	Water	07/02/20 10:05	07/02/20 13:06	
480-171962-2	MW-7-1-2020	Water	07/02/20 11:15	07/02/20 13:06	
480-171962-3	TRIP BLANK	Water	07/02/20 00:00	07/02/20 13:06	
480-171962-5	MW-8-4-2020	Water	07/02/20 12:20	07/02/20 13:06	
480-172007-1	TK-6-2020	Water	07/06/20 12:00	07/06/20 15:05	
480-172007-2	MW-10-3-2020	Water	07/06/20 13:15	07/06/20 15:05	
480-172007-3	TRIP BLANK-1	Water	07/06/20 00:00	07/06/20 15:05	
480-172007-4	MW-10-2-2020	Water	07/06/20 14:30	07/06/20 15:05	
480-172007-6	TRIP BLANK-2	Water	07/06/20 00:00	07/06/20 15:05	
480-172031-1	MW-7-7-2020	Water	07/07/20 10:30	07/07/20 14:45	
480-172031-2	MW-7-A-6-2020	Water	07/07/20 12:30	07/07/20 14:45	
480-172031-3	MW-7-6-2020	Water	07/07/20 13:45	07/07/20 14:45	
480-172156-1	MW-7-8-2020	Water	07/09/20 08:15	07/09/20 13:23	
480-172156-2	MW-7-5-2020	Water	07/09/20 09:45	07/09/20 13:23	
480-172156-3	MW-7-C-2-2020	Water	07/09/20 10:55	07/09/20 13:23	
480-172156-4	TripBlank	Water	07/09/20 00:00	07/09/20 13:23	
480-172221-1	MW-8-003-B-2020	Water	07/10/20 08:30	07/10/20 14:30	
480-172221-2	MW-8-1-2020	Water	07/10/20 10:50	07/10/20 14:30	
480-172221-3	MW-8-2-2020	Water	07/10/20 11:55	07/10/20 14:30	
480-172221-4	Trip Blank 071020	Water	07/10/20 00:00	07/10/20 14:30	
480-172221-5	MW-8-3-2020	Water	07/10/20 12:20	07/10/20 14:30	
480-172300-1	MW-9-101-A-2020	Water	07/13/20 10:25	07/13/20 15:50	
480-172300-2	MW-9-12-2020	Water	07/13/20 11:30	07/13/20 15:50	
480-172300-3	MW-7-P-1-2020	Water	07/13/20 13:00	07/13/20 15:50	
480-172300-4	BLDG-10-MW-1-2020	Water	07/13/20 14:40	07/13/20 15:50	
480-172300-5	GW-DUP-2020	Water	07/13/20 00:00	07/13/20 15:50	
480-172300-6	TRIP BLANK 1	Water	07/13/20 00:00	07/13/20 15:50	
480-172300-7	TRIP BLANK 2	Water	07/13/20 00:00	07/13/20 15:50	

Environment Testing
America

Client Information Client Contact: Mr. Tom Bohlen Company: GZA GeoEnvironmental, Inc. Address: 300 Pearl St. Suite 700 City: Buffalo State, Zip: NY, 14202 Phone: Email: thomas.bohlen@gza.com Project Name: 058507, GM Lockport SSOW 256041 Site: <u>Delphi Harrison Thermal Systems Site</u>			Sample: <u>T. Bohlen</u> Phone: <u>716-570-5983</u>		Lab PM: Heckler, Denise D E-Mail: denise.heckler@testamericainc.com		Carrier Tracking No(s): COC No: 480-146954-32642.1 Page: <u>1</u> Page 1 of <u>1</u>																																																																																																																																																																																																								
Due Date Requested: TAT Requested (days): PO #: Purchase Order Requested WO #: 256041 Project #: 48004014 SSOW#:			Analysis Requested										Job #:																																																																																																																																																																																																		
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Empty Kit Relinquished by: <u>Thomas Bohlen</u>			Date: <u>6/24/20</u>			Time: <u>1520</u>			Method of Shipment:																																																																																																																																																																																																						
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Custody Seals Intact: ☐ Yes ☐ No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <u>4.7 #1 JCF</u>																																																																																																																																																																																																									

Chain of Custody Record

Client Information		Sampler: <u>T. Bohlen</u>		Lab PM: Heckler, Denise D	
Client Contact: Mr. Tom Bohlen		Phone: <u>716-570-5983</u>		E-Mail: denise.heckler@test	
Company: GZA GeoEnvironmental, Inc.					
Address: 300 Pearl St. Suite 700		Due Date Requested:			
City: Buffalo		TAT Requested (days):			
State, Zip: NY, 14202		PO #: Purchase Order Requested			
Phone:		WO #: 256041			
Email: thomas.bohlen@gza.com		Project #: 48004014			
Project Name: 058507, GM Lockport SSOW 256041		SSOW#:			
Site: <u>Delphi Harrison Thermal Systems site</u>					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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	reservation Codes:	Special Instructions/Note:
MW-15-2020	6/25/20	1045	G	Water																A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
MW-11-2020		1235		Water																M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
MW-13-2020		1410		Water																	
Trip Blank				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
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				Water																	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ 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: _____		Method of Shipment: _____	
Relinquished by: <u>Thomas Bohlen</u>	Date/Time: <u>6/25/20 1517</u>	Company: _____	Received by: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: <u>BJS</u>
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: _____	Cooler Temperature(s) °C and Other Remarks: <u>38 #1</u>	

480-171719 Chain of Custody

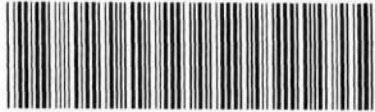
reservation Codes:

A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Other:

Special Instructions/Note:

* Dissolved H₂ -
 Pace
 Batch report
 results with
 Delphi
 - see D.
 Heckler

Client Information		Sampler: <u>T. Bohlen</u>		Lab PM: Heckler, Deni		Carrier Tracking No(s):		COC No: 480-146954-32642.5																																			
Client Contact: Mr. Tom Bohlen		Phone: <u>716-570-5883</u>		E-Mail: denise.heckl				Page: <u>5 of 11</u> 1 of 1																																			
Company: GZA GeoEnvironmental, Inc.		Address: 300 Pearl St. Suite 700		City: Buffalo		State, Zip: NY, 14202		Job #:																																			
Phone:		Due Date Requested:		TAT Requested (days):		PO #:		Preservation Codes:																																			
Email: thomas.bohlen@gza.com		Purchase Order Requested:		WO #:		Project #:		A - HCL M - Hexane																																			
Project Name: 058507, GM Lockport SSOW 256041		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		B - NaOH N - None																																			
Site: <u>Delphi Harrison Thermal Systems Site</u>		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=grab)		BT=Tested, A=Air		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		Dissolved for test		Other:	
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Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=grab)		BT=Tested, A=Air		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		Dissolved for test		Other:					
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=grab)		BT=Tested, A=Air		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		Dissolved for test		Other:					
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, G=grab)		BT=Tested, A=Air		8260C - PCE, TCE, DCE (trans and cis) & VC		VFA_IC - VFAs		8270D																													

Environment Testing
America



480-171808 Chain of Custody

7/27/2020

Environment Testing
America

Client Information Client Contact: Mr. Tom Bohlen Company: GZA GeoEnvironmental, Inc. Address: 300 Pearl St. Suite 700 City: Buffalo State, Zip: NY, 14202 Phone: _____ Email: thomas.bohlen@gza.com Project Name: 058507, GM Lockport SSOW 256041 Site: <i>GM Lockport BCP</i>				Sampler: <i>T. Bohlen</i> Phone: <i>716-570-5983</i>		Lab PM: Heckler, Denise D E-Mail: denise.heckler@testamericainc.com		Carrier Tracking No(s): _____ COC No: 480-146954-32642.9 Page: Page 9 of 11 Job #: _____																																																																																																																																																																																																																																																																											
				Analysis Requested Due Date Requested: _____ TAT Requested (days): _____ PO #: _____ Purchase Order Requested: _____ WO #: 256041 Project #: 48004014 SSOW#: _____  480-171837 Chain of Custody																																																																																																																																																																																																																																																																															
Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8260C - PCE, TCE, DCE (trans and cis) & VC</th> <th>VFA_IC - VFAs</th> <th>8270D - PAH Semivolatiles</th> <th>RSK_175_C02 - Carbon dioxide</th> <th>300.0_28D - Anions (Chloride & Sulfate)</th> <th>350.1 - Ammonia</th> <th>6010C - Metals - Fe, Mn, Mg, K & Na</th> <th>RSK_175 - Methane, Ethane & Ethene</th> <th>9060A - TOC</th> <th>SM4500_S2_F - Sulfide</th> <th>353.2_353.2_Nitrite, Nitrate, Calc</th> <th>2320B - Alkalinity</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-7-2-2020</td> <td>6/30/20 1310</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td rowspan="6"> Batch/report w/ other BCP wells - see D. Heckler </td> </tr> <tr> <td>MW-7-3-2020</td> <td>1415</td> <td>G</td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Water</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> <tr> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Water</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> <tr> <td></td> <td></td> <td></td> <td>Water</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> <tr> <td colspan="4"> Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological </td> <td colspan="16"> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months </td> </tr> <tr> <td colspan="4"> Deliverable Requested: I, II, III, IV, Other (specify) _____ </td> <td colspan="16"> Special Instructions/QC Requirements: _____ </td> </tr> <tr> <td colspan="4"> Empty Kit Relinquished by: _____ </td> <td colspan="2"> Date: _____ </td> <td colspan="2"> Time: _____ </td> <td colspan="12"> Method of Shipment: _____ </td> </tr> <tr> <td colspan="4"> Relinquished by: <i>Thomas Bohlen</i> </td> <td colspan="2"> Date/Time: <i>6/30/20 1502</i> </td> <td colspan="2"> Company: <i>GZA</i> </td> <td colspan="4"> Received by: _____ </td> <td colspan="4"> Date/Time: _____ </td> <td colspan="4"> Company: _____ </td> </tr> <tr> <td colspan="4"> Relinquished by: _____ </td> <td colspan="2"> Date/Time: _____ </td> <td colspan="2"> Company: _____ </td> <td colspan="4"> Received by: _____ </td> <td colspan="4"> Date/Time: _____ </td> <td colspan="4"> Company: _____ </td> </tr> <tr> <td colspan="4"> Relinquished by: _____ </td> <td colspan="2"> Date/Time: _____ </td> <td colspan="2"> Company: _____ </td> <td colspan="4"> Received by: <i>BDS</i> </td> <td colspan="4"> Date/Time: <i>6/30/20 1502</i> </td> <td colspan="4"> Company: <i>TAB</i> </td> </tr> <tr> <td colspan="4"> Custody Seals Intact: ☐ Yes ☐ No </td> <td colspan="2"> Custody Seal No.: _____ </td> <td colspan="16"> Cooler Temperature(s) °C and Other Remarks: <i>#1 20</i> </td> </tr> </tbody></table>				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	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_C02 - 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:	MW-7-2-2020	6/30/20 1310	G	Water			X				X	X	X	X	X	X	X	X		Batch/report w/ other BCP wells - see D. Heckler	MW-7-3-2020	1415	G	Water			X				X	X	X	X	X	X	X					Water																		Water			X															Water																		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>Thomas Bohlen</i>				Date/Time: <i>6/30/20 1502</i>		Company: <i>GZA</i>		Received by: _____				Date/Time: _____				Company: _____				Relinquished by: _____				Date/Time: _____		Company: _____		Received by: _____				Date/Time: _____				Company: _____				Relinquished by: _____				Date/Time: _____		Company: _____		Received by: <i>BDS</i>				Date/Time: <i>6/30/20 1502</i>				Company: <i>TAB</i>				Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: <i>#1 20</i>															
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 eurofins | Environment Testing
America

Client Information				Sampler: T. Bohlen Heckler, Denise D		Carrier Tracking No(s):		COC No: 480-146954-32642.11										
Client Contact: Mr. Tom Bohlen				Phone: 716 570 5983 E-Mail: denise.heckler@testamericainc.com				Page: 11 of 11 1 of 1										
Company: GZA GeoEnvironmental, Inc.				Due Date Requested:		Analysis Requested 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		Job #:										
Address: 300 Pearl St. Suite 700				TAT Requested (days):				Preservation Codes:										
City: Buffalo				PO #: Purchase Order Requested				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 Z - other (specify)										
State, Zip: NY, 14202				WO #: 256041				Other:										
Project Name: 058507, GM Lockport SSOW 256041				Project #: 48004014														
Site: GM Lockport BCP				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)	Special Instructions/Note:												
MW-7-4-2020	7/12/20	1005	G	Water	NNX	N	N	N	N	S	D	A	A	C	B	N	N	Back report w/ other BCP sample - see D. Heckler
MW-7-1-2020		1115		Water	NNX			X	X	X	X	X	X	X				
MW-8-4-2020		1220		Water	NNX			X	X	X	X	X	X	X				
Trip Blank				Water		X												
				Water														
				Water														
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Sample Disposal (A fee may be assessed) ☐ Return To Client ☒ Disposal By Lab												
Deliverable Requested: I, II, III, IV, Other (specify)						Cooler Temperature(s) °C and Other Remarks:												
Empty Kit Relinquished by:			Date:	Time:		Method of Shipment:												
Relinquished by: Thomas Bohlen			Date/Time: 7/12/20 1306	Company: GZA		Received by: CWA/Kee				Date/Time: 7/12/20 1306		Company: TAB						
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.:															

[illegible]

Eurofins TestAmerica, 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>T. Bohlen</u>		Lab PM: Heckler, Denise D		Carrier Tracking No(s):		COC No: 480-146954-32642.7	
Client Contact: Mr. Tom Bohlen		Phone: <u>716-570-5983</u>		E-Mail: denise.heckler@testamericainc.com				Page: 1	
Company: GZA GeoEnvironmental, Inc.									
Address: 300 Pearl St. Suite 700		Due Date Requested:							
City: Buffalo		TAT Requested (days):							
State, Zip: NY, 14202									
Phone:		PO #: Purchase Order Requested							
Email: thomas.bohlen@gza.com		WO #: 256041							
Project Name: 058507, GM Lockport SSOW 256041		Project #: 48004014							
Site: <u>Lockport BCP</u>		SSOW#:							

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)	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	Special Instructions/Note:
MW-8-003-B-2020	7/10/20	830	G	Water	N	X				X	X	X	X	X	X	X	X	X		Batch/report w/ other BCP wells/samples - see D. Heckler
MW-8-1-2020		1050		Water																
MW-8-2-2020		1155		Water																
MW-8-3-2020		1220		Water																
Trip Blank				Water		X														
				Water																
				Water																
				Water																
				Water																
				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: <u>Thomas Bohlen</u> Date: <u>7/10/20/1430</u> Company: <u>GZA</u>		Method of Shipment:	
Relinquished by: <u>Thomas Bohlen</u> Date/Time: <u>7/10/20/1430</u> Company: <u>GZA</u>		Received by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: <u>BDS</u> Date/Time: <u>7/10/20 1430</u> Company: <u>TIAB</u>	
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Ver: 01/16/2019

Eurofins TestAmerica, 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>T. Bohlen</u>		Lab PM: Heckler, Denise C																		
Client Contact: Mr. Tom Bohlen		Phone: <u>716-570-5983</u>		E-Mail: denise.heckler@t																		
Company: GZA GeoEnvironmental, Inc.																						
Address: 300 Pearl St. Suite 700		Due Date Requested:		 480-172300 Chain of Custody																		
City: Buffalo		TAT Requested (days):																				
State, Zip: NY, 14202																						
Phone:		PO #: Purchase Order Requested																				
Email: thomas.bohlen@gza.com		WO #: 256041																				
Project Name: 058507, GM Lockport SSOW 256041		Project #: 48004014																				
Site: <u>GM Lockport BCP</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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - PCE, TCE, DCE (trans and cis) & VC	VEA - VOCs	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	Preservation Codes:	Special Instructions/Note:
MW-9-101-A-2020		7/13/20	1025	G	Water	N	X	X	X	X	X	X	X	X	X	X	X	X	X		Batch/report w/ other BCP samples - see A, Heckler	
MW-9-12-2020			1130		Water	N	X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-7-A-1-2020			1300		Water	N	X	X	X	X	X	X	X	X	X	X	X	X	X			
BLAG-10-MW-1-2020			1440		Water	N	X	X	X	X	X	X	X	X	X	X	X	X	X			
GW-Dup-2020			-		Water	N	X	X	X	X	X	X	X	X	X	X	X	X	X			
Trip Blank-1					Water		X														- project sampling complete	
Trip Blank-2					Water		X															
					Water																	
					Water																	
					Water																	
					Water																	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						☐ 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: <u>Thomas Bohlen</u>		Date/Time: <u>7/13/20 / 1550</u>		Company: <u>GZA</u>		Received by:		Date/Time:		Company:												
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:												
Relinquished by:		Date/Time:		Company:		Received by: <u>BDB</u>		Date/Time: <u>7/13/20 1550</u>		Company: <u>JAB</u>												
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <u>4.3 #1</u>																

Ver: 01/16/2019

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TEST AMERICA
10 HAZELWOOD

ACTWGT: 846654/CAFE3313
CAD: 846654/CAFE3313
DIMS: 19x15x10 IN

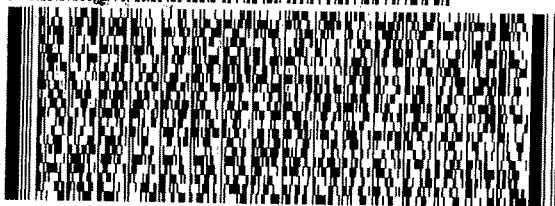
AMHERST, NY 14228
UNITED STATES US

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990

REF: TA BURLINGTON



FedEx
Express



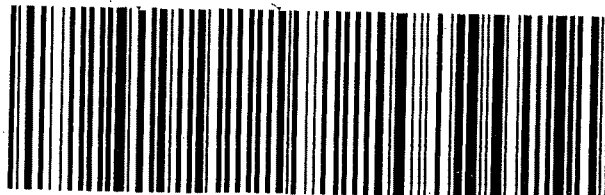
TRK# 1888 3860 9515
D201

WED - 01 JUL 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403

VT-US BTV



Abstract

 **eurofins** | Environment Testing
America

[illegible]

realEXX®

Do Not Lift Using This Tag



Environment Testing

RT 916
FZ 917

1
10:30
A
9515
07.02

ORIGIN: ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

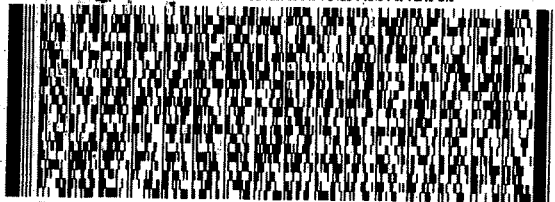
ACTWGT: 1.12 LB
CAD: 846654/CAFE3313
DIMS: 19x15x10 IN

AMHERST, NY 14228
UNITED STATES US

BILL RECIPIENT

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990
REF: TA BURLINGTON



FedEx
Express

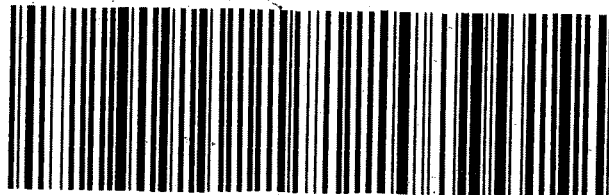


TRK# 1888 3860 9515
0201

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05403
VT-US BTV



480-172007 Chain of Custody

**Environment Testing
America**

31.1

Page 1 of 1

Job #

480-171808-1

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 - Na2SO2O3
G - Amnchlor	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	Z - other (specify)

Other

Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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)

Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Date/Time:

Company

Received by

Date/Time:

Company

Relinquished by:

2/21	Date/Time
------	-----------

Company	Revenue	Profit	Assets	Liabilities	Equity
Company A	100	20	120	80	40
Company B	150	30	180	120	60
Company C	200	40	240	160	80
Company D	250	50	300	200	100
Company E	300	60	360	240	120
Company F	350	70	420	280	140
Company G	400	80	480	320	160
Company H	450	90	540	360	180
Company I	500	100	600	400	200
Company J	550	110	660	440	220
Company K	600	120	720	480	240
Company L	650	130	780	520	260
Company M	700	140	840	560	280
Company N	750	150	900	600	300
Company O	800	160	960	640	320
Company P	850	170	1020	680	340
Company Q	900	180	1080	720	360
Company R	950	190	1140	760	380
Company S	1000	200	1200	800	400
Company T	1050	210	1260	840	420
Company U	1100	220	1320	880	440
Company V	1150	230	1380	920	460
Company W	1200	240	1440	960	480
Company X	1250	250	1500	1000	500
Company Y	1300	260	1560	1040	520
Company Z	1350	270	1620	1080	540
Company AA	1400	280	1680	1120	560
Company AB	1450	290	1740	1160	580
Company AC	1500	300	1800	1200	600
Company AD	1550	310	1860	1240	620
Company AE	1600	320	1920	1280	640
Company AF	1650	330	1980	1320	660
Company AG	1700	340	2040	1360	680
Company AH	1750	350	2100	1400	700
Company AI	1800	360	2160	1440	720
Company AJ	1850	370	2220	1480	740
Company AK	1900	380	2280	1520	760
Company AL	1950	390	2340	1560	780
Company AM	2000	400	2400	1600	800
Company AN	2050	410	2460	1640	820
Company AO	2100	420	2520	1680	840
Company AP	2150	430	2580	1720	860
Company AQ	2200	440	2640	1760	880
Company AR	2250	450	2700	1800	900
Company AS	2300	460	2760	1840	920
Company AT	2350	470	2820	1880	940
Company AU	2400	480	2880	1920	960
Company AV	2450	490	2940	1960	980
Company AW	2500	500	3000	2000	1000
Company AX	2550	510	3060	2040	1020
Company AY	2600	520	3120	2080	1040
Company AZ	2650	530	3180	2120	1060
Company BA	2700	540	3240	2160	1080
Company BB	2750	550	3300	2200	1100
Company BC	2800	560	3360	2240	1120
Company BD	2850	570	3420	2280	1140
Company BE	2900	580	3480	2320	1160
Company BF	2950	590	3540	2360	1180
Company BG	3000	600	3600	2400	1200
Company BH	3050	610	3660	2440	1220
Company BI	3100	620	3720	2480	1240
Company BJ	3150	630	3780	2520	1260
Company BK	3200	640	3840	2560	1280
Company BL	3250	650	3900	2600	1300
Company BM	3300	660	3960	2640	

Received by

Date/Time:

Company	
---------	--

Relinquished by:

[illegible]

	Company
--	---------

Received by

Date/Time:

	Company
--	---------

Custody Seals Intact:
☒ Yes ☐ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica

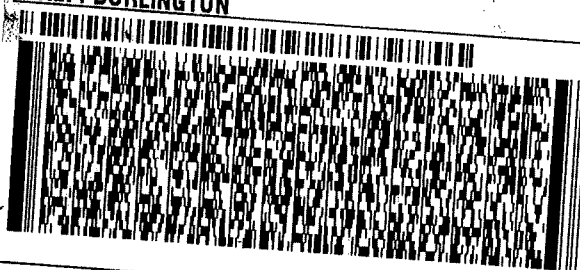
ORIGIN ID:OKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 08JUL20
ACTWGT: 20.95 LB
CAD: 846654/CAFE3313
OIMS: 19x15x10 IN

BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 880-1880
REF: BURLINGTON



FedEx
Express

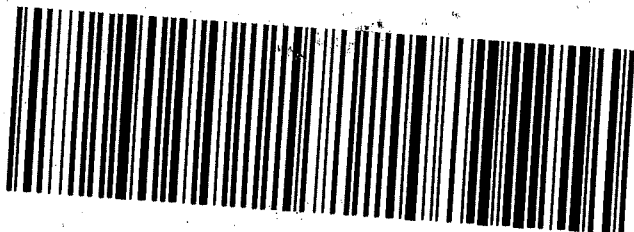


TRK#
0201 1888 3860 9927

THU - 09 JUL 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV



Eurofins TestAmerica, Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



ins

Environment Testing
America

480-172031 Chain of Custody

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Heckler, Denise D					
Client Contact: Shipping/Receiving		Phone:		E-Mail: denise.heckler@testamericainc.com					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Page: Page 1 of 1					
Address: 30 Community Drive, Suite 11, City: South Burlington State, Zip: VT, 05403 Phone: 802-660-1990(Tel) 802-660-1919(Fax) Email:		Due Date Requested: 7/17/2020 TAT Requested (days): PO #: WO #: Project #: 48004014 SSOW#:		Analysis Requested					
Project Name: 058507, GM Lockport SSOW 256041 Site:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:		Total Number of Containers					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab) BT=Tissue, A=Air	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175_CO2 Carbon dioxide	Special Instructions/Note:
MW-7-7-2020 (480-172031-1)		7/7/20	10:30 Eastern	Water			X		
MW-7-A-6-2020 (480-172031-2)		7/7/20	12:30 Eastern	Water			X		
MW-7-6-2020 (480-172031-3)		7/7/20	13:45 Eastern	Water			X		
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.									
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: 7/18/20 17:00		Company:		Received by:		Date/Time: 7/19/2020 10:34	
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.: 120822e		Cooler Temperature(s) °C and Other Remarks: 3.4					

Ver: 01/16/2019

TestAmerica

ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 08 JUL 20
ACTWGT: 20.95 LB
CAD: 846654/CAFE3313
OIMS: 19x15x10 IN

BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 680-1980

REF: BURLINGTON



FedEx
Express



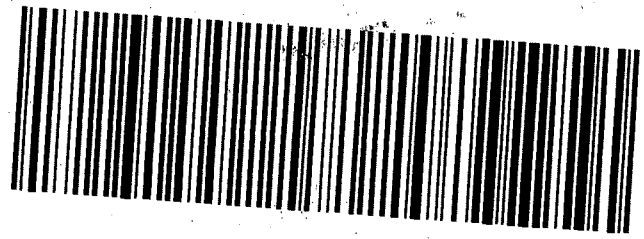
J191219082001 by

TRK#
0201 1888 3860 9927

THU - 09 JUL 10:30A
PRIORITY OVERNIGHT

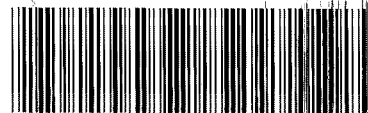
NL BTVA

05403
VT-US BTV



10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



480-172221 Chain of Custody

Profins

Environment Testing
America

[illegible]

Ver: 01/16/2019

ORIGIN ID:DKKA (716) 691-2600
CHAR BRUNSON
TEST AMERICA
10 HAZELWOOD

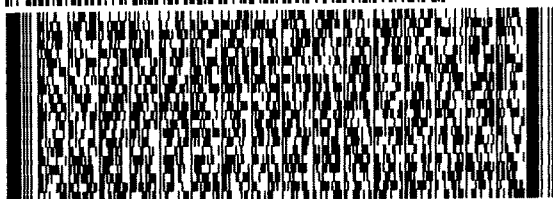
SHIP DATE: 14JUL20
ACTWGT: 49.35 LB
CAD: 846654/CAFE3313
DIMS: 26x15x14 IN

AMHERST, NY 14228
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1890
REF: TA BURLINGTON



FedEx
Express



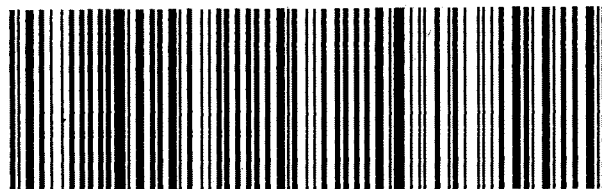
JT912190820014V

TRK# 1888 3861 0357
0201

WED - 15 JUL 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US **BTVA**



480-172300 Chain of Custody

**Environment Testing
America**

[illegible]

Ver: 01/16/2019

ORIGIN ID:DKKA (716) 691-2600
CHAR BRONSON
TEST AMERICA
10 HAZELWOOD

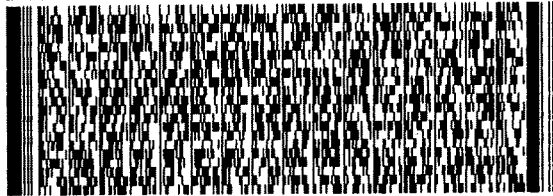
SHIP DATE: 14JUL20
ACTWGT: 49.35 LB
CAD: 846654/CAFE3313
DIMS: 28x15x14 IN

AMHERST, NY 14228
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
REF: TA BURLINGTON



FedEx
Express



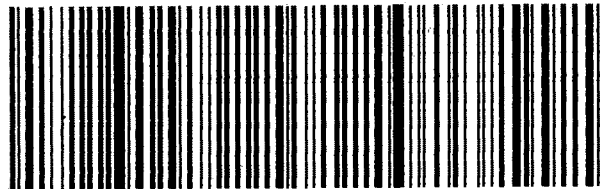
J1912190820014V

TRK# 1888 3861 0357
0201

WED - 15 JUL 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US **BTV**



Phone: 716-691-2600 Fax: 716-691-7991



Environment Testing
America

[illegible]

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : _____

Client ETA Buffalo

Site Name _____

Cooler unpacked by: [Signature]

Cooler Received on 7-18-20

Opened on 7-19-20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

TestAmerica Cooler # 1A Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.9 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No
 -Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☐ No NA
 -Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No NA
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No
4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No
6. Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☐ No
7. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No
8. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No
9. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No
10. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No
11. Are these work share samples? ☒ Yes ☐ No
 If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? ☒ Yes ☐ No
14. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA  Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ ☒ Yes ☐ No
16. Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-171808-1

SDG Number: BCP

Login Number: 171808

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, 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: 480-171808-1

SDG Number: BCP

Login Number: 171808

List Number: 2

Creator: Dawicki, Don C

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/02/20 02:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1208194
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	5.6C
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.	N/A	
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: 480-171808-1

SDG Number: BCP

Login Number: 171837

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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: 480-171808-1

SDG Number: BCP

Login Number: 171837

List Number: 2

Creator: Dawicki, Don C

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/02/20 02:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1208196
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	2.8C
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?	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.	N/A	
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: 480-171808-1

SDG Number: BCP

Login Number: 171962

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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: 480-171808-1

SDG Number: BCP

Login Number: 171962

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/03/20 11:53 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	1208213
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	3.5°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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-171808-1

SDG Number: BCP

Login Number: 172007

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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: 480-171808-1

SDG Number: BCP

Login Number: 172007

List Number: 2

Creator: Lavigne, Scott M

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/09/20 02:29 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	1208220
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	3.4°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?	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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-171808-1

SDG Number: BCP

Login Number: 172031

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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	3.4 #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	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: 480-171808-1

SDG Number: BCP

Login Number: 172031

List Number: 2

Creator: Lavigne, Scott M

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/09/20 02:29 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	1208220
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	3.4°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?	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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-171808-1

SDG Number: BCP

Login Number: 172156

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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	3.6 #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	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: 480-171808-1

SDG Number: BCP

Login Number: 172156

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/11/20 12:08 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	1208230
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	3.4°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?	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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-171808-1

SDG Number: BCP

Login Number: 172221

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, 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	
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: 480-171808-1

SDG Number: BCP

Login Number: 172221

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/15/20 12:17 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	1208244
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	3.6°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: 480-171808-1

SDG Number: BCP

Login Number: 172300

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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: 480-171808-1

SDG Number: BCP

Login Number: 172300

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 07/15/20 12:17 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	1208244
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	3.6°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	



GZA GeoEnvironmental, Inc.