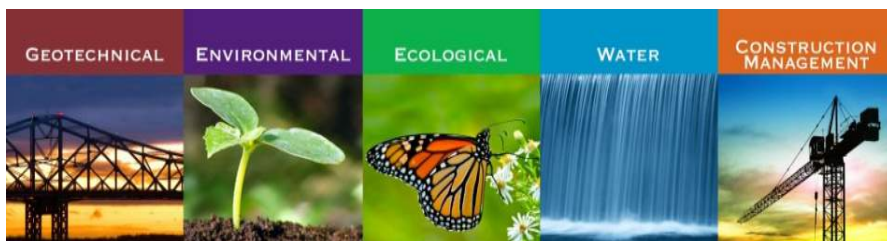




Known for excellence. Built on trust.



OCTOBER 2023
GROUNDWATER MONITORING REPORT
BCP SITE C932138
GM COMPONENTS HOLDINGS, LLC
200 Upper Mountain Road
Lockport, New York

February 16, 2024
File No. 21.0056546.20



PREPARED FOR:
New York State Department of Environmental
Conservation

GZA GeoEnvironmental of New York
300 Pearl Street, Suite 700 | Buffalo, NY 14202
716-685-2300

31 Offices Nationwide
www.gza.com

Copyright© 2024 GZA GeoEnvironmental of New York



Known for excellence.
Built on trust.

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION
MANAGEMENT

GZA GeoEnvironmental of NY
300 Pearl Street
Suite 700
Buffalo, NY 14202
T: 716.685.2300
F: 716.248.1472
www.gza.com



VIA EMAIL

February 16, 2024
File No: 21.0056546.20

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

RE: October 2023 Groundwater Monitoring Report
Brownfield Cleanup Program (BCP) Site C932138
GM Components Holdings, LLC
200 Upper Mountain Road
Lockport, NY 14094

Mr. May:

GZA GeoEnvironmental of New York (GZA) is pleased to provide the attached October 2023 Groundwater Monitoring Report for BCP Site C932138.

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

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen, P.G.
Senior Project Manager

Jeremiah Duncan, Ph.D.
Senior Chemist/Consultant Reviewer

Bart A. Klettke, P.E.
Principal



TABLE OF CONTENTS

Page

NO TABLE OF CONTENTS ENTRIES FOUND.

TABLES

TABLE 1 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

FIGURES

FIGURE 1 SITE PLAN

FIGURE 2 OCTOBER 2023 GROUNDWATER CONTOUR MAP

FIGURE 3 EXTENT OF GROUNDWATER CONTAMINATION

FIGURE 4 SUMMARY OF HISTORICAL GROUNDWATER MONITORING RESULTS

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 EPA cVOC MONITORED NATURAL ATTENUATION RANKING SYSTEM

APPENDIX E TABLE E-1 WELL CONDITION SURVEY

APPENDIX F EUROFINS TEST AMERICA ANALYTICAL LABORATORY REPORTS



1.0 INTRODUCTION AND BACKGROUND

On behalf of GM Components Holdings LLC (GMCH), GZA GeoEnvironmental of New York (GZA) prepared this October 2023 Groundwater Monitoring Report, which summarizes annual monitoring conducted at the GMCH Lockport facility, 200 Upper Mountain Road, Lockport, New York (Brownfield Cleanup Program (BCP) Site No. C932138). The groundwater sampling was conducted from October 5, 2023 through October 19, 2023 and included 25 monitoring wells (**Figure 1**). Eleven of the wells are proximate to Building 7 (MW-7-1R, -7-2, -7-3, -7-4, -7-5, -7-6, -7-7, -7-8, 7-A-6, -7-C-2, and -7-P-1). Eight wells are proximate to Building 8 (MW-6-1, -6-2, -6-F-8, -8-1, -8-2, -8-3, -8-4, and -8-003-B) and six wells are proximate to Building 10 (BLDG 10 MW-1, MW-10-2, -10-3, -9-101-A, -9-12, and TK-6). Groundwater elevations were collected during the sampling event. **Figure 2** depicts groundwater contours generated from water level measurements collected on October 2, 2023.

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

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

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

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

2.0 GROUNDWATER MONITORING AND SAMPLING

The October 2023 groundwater sampling and analytical parameters were in accordance with the combined BCP Site SMP. In addition to the MNA parameters identified in the SMP, carbon dioxide (CO₂), ethane, and ethene were analyzed to help further evaluate the fate and transport of total organic carbon (TOC) and vinyl chloride (a reductive dichlorination daughter product of the parent compound tetrachloroethene (PCE). Vinyl chloride sequentially degrades to ethene, ethane, and methane under reductive conditions and to CO₂ under mildly oxidative conditions.

METHODOLOGY



An organic vapor meter (OVM), equipped with photoionization detector (PID) and a 10.6 electron volt (eV) ultraviolet lamp, was used to screen for volatile organics in air at the top of the well riser immediately following the removal of each monitoring well riser cap. OVM readings were recorded on each respective monitoring well field sampling log (**Appendix A**). OVM readings in breathing space did not exceed 0.9 parts per million (ppm) above background concentrations (0.0 ppm) and no odors were noted in the breathing space during sampling.

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

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

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

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

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

Analytical Parameters

Chlorinated Organic Compounds of Concern (COCs):

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

Inorganics:

- iron;



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

Natural Attenuation Parameters:

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

Field Measured Parameters:

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

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

3.0 ANALYTICAL RESULTS AND DISCUSSION

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

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.



Building 7

Eleven monitoring wells were sampled proximate to Building 7:

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

Potential Source Area Wells:

The 2023 results for the two potential source area wells (proximate to the exterior western wall of Building 7) indicate that biological reductive dichlorination is continuing in this area, following the in-situ treatment in June 2016. The ORP in MW-7-7 has been strongly reducing since June 2016 (< -233.9 mV), and in MW-7-A-6 it has also been strongly reducing, although it was less so in the 2023 sampling (< -145.1 mV prior to 2022; -60.0 mV in 2023). These data, along with low dissolved oxygen (< 0.6 mg/L in both wells in 2023), are indicative of a favorable environment for the dechlorinating microbes. Additionally, production of daughter products, including 1,2-DCE, VC, and ethene is evident. In MW-7-7, these compounds made up 30.0%, 7.8%, and 1.2% (by molar concentration), respectively, of the total ethenes, while in MW-7-A-6 they were 34.8%, 40.9%, and 7.0%, respectively (See **Appendix B** for data and figures). These proportions have remained relatively constant over the last three to four sampling periods, although both the real amount and proportion of VC in MW-7-A-6 have trended upward. Finally, concentrations of both CO_2 and chloride (final products of the mineralization of chlorinated solvents) have trended downward in both wells, while methane concentrations have been consistently high. In October 2023, CO_2 was measured at 56 and 300 mg/L in MW-7-7 and MW-7-A-6, respectively, chloride was 3,410 and 1,420 $\mu\text{g/L}$, respectively, and methane at 870 and 1,400 $\mu\text{g/L}$.

Although initially showing decreases following the 2016 treatments, PCE concentrations in both MW-7-7 and MW-7-A-6 have trended upward over the last few years of sampling. In October 2023, PCE was measured at 100,000 and 64,000 $\mu\text{g/L}$, respectively, in the wells. These results represent a 47% and 33% increase, respectively, over the previous year, but more notably, show a consistent increase from the lowest concentrations in 2018 (23,000 $\mu\text{g/L}$ in MW-7-7 and below detection in MW-7-A-6). While the 2023 results are still less than historical values prior to treatment ($\geq 120,000$ $\mu\text{g/L}$ in both wells), this continued rebound is indicative of a potential, upgradient DNAPL source. It is noted that PCE was detected at a concentration of 170,000 $\mu\text{g/L}$ in the upgradient BLDG-10-MW-1 well, which is consistent with historical concentrations here (see Building 10 discussion below).

Mid-Plume Area Wells:

Wells MW-7-5 and MW-7-8 showed some increases in COCs in 2023. Concentrations of PCE in groundwater analyzed from MW-7-5 have trended upward since the remedial treatment in June 2016 (despite a potentially anomalous, historical low of 48 $\mu\text{g/L}$ in 2020). TCE and *cis*-DCE in MW-7-5 have also similarly increased over the last couple of sampling rounds, and in October 2023 were detected at 1,200 and 1,100 $\mu\text{g/L}$, respectively, which are historically high concentrations. VC in groundwater analyzed from MW-7-8 has also recently trended upward and was at a higher concentration in 2023 than in 2022 (VC = 590 $\mu\text{g/L}$). PCE, TCE and *cis*-DCE concentrations decreased from detected concentrations in October 2022 (PCE = 710 $\mu\text{g/L}$, TCE = 220 $\mu\text{g/L}$, and *cis*-DCE = 410 $\mu\text{g/L}$). *Cis*-DCE concentrations from MW-7-C-2 were higher in 2023 (540 $\mu\text{g/L}$) than in previous monitoring events at the highest concentration since 2016. The other three mid-plume wells (MW-7-P-1, MW-7-6, and MW-7-C-2) showed similar COC concentrations to those seen over the last few years. MW-7-P-1 has consistently had low levels of COCs, and in October 2023, there were no detections of PCE, TCE, or VC while 1,2-DCE was measured at 2.4 $\mu\text{g/L}$. COC concentrations in MW-7-6 are consistent with historical levels (PCE = 560 $\mu\text{g/L}$, TCE = 310 $\mu\text{g/L}$,



1,2-DCE = 630 µg/L, and VC = 9.2 µg/L). Concentrations of PCE and TCE are consistent with historical levels in MW-7-C-2 (ND), VC was measured at 81 µg/L, which is down from concentrations detected in 2022 (140 µg/L, highest concentration since 2011).

Unlike in the potential source area wells, there is less indication of biotic reductive dechlorination in the mid-plume area wells MW-7-5 and MW-7-6. The screening scores (**Appendix D**) indicate limited evidence of anaerobic biodegradation in MW-7-5 and adequate evidence in MW-7-6. However, these scores are based in part on the presence of certain chemical species, which could be from upgradient wells. ORP measurements are moderately to not favorable for reductive dechlorination (+17.9 mV in MW-7-5 and +16.8 mV in MW-7-6), and while there are detections of daughter products, both the concentrations and molar fractions have remained mostly constant over time (**Appendix B**). Additionally, concentrations of VC (ND in MW-7-5 and 9.2 µg/L in MW-7-6) and ethene (ND in both wells) were low in the October 2023 sampling round, while concentrations of CO₂ (96 mg/L in MW-7-5 and 44 mg/L in MW-7-6) and chloride (5,610 mg/L in MW-7-5 and 5,830 mg/L in MW-7-6) were higher than pre-treatment levels, having trended upward in recent years with a decline in concentrations since 2022. Methane concentrations in October 2023 were relatively low in wells MW-7-5 (12 µg/L) and MW-7-6 (250 µg/L) which is indicative of a lack of reductive dichlorination.

Field and analytical measurements of groundwater in MW-7-8 indicate a fluctuating environment since 2016, with ORP measurements spanning from mildly oxidizing (+8.5 mV in 2018) to reducing (-190 mV in 2017, -160.2 mV in 2021, -80.7 mV in 2022, and -67.3 mV in 2023), and inconsistent concentrations of COCs. In some years (*e.g.*, 2017 and 2019), concentrations and the fraction of daughter products (*cis*-1,2-DCE and VC) have increased, while those of PCE and TCE decreased, indicating that biotic degradation of chlorinated solvents may be occurring at times in this well. In 2022, concentrations of all four chlorinated ethenes increased slightly compared to 2021. In 2023, concentrations of PCE, TCE and 1,2-DCE decreased slightly compared to 2022, while VC experienced a spike to an all-time high concentration (590 µg/L).

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

Downgradient Area Wells:

Samples from the four downgradient wells (MW-7-1R, MW-7-2, MW-7-3, and MW-7-4) contained no COCs at concentrations above the PQLs, or above their respective Class GA criteria². In 2022, concentrations of TCE in well MW-7-4 (15 µg/L) exceeded its Class GA criteria (5 µg/L) for the first time since 2011. TCE was detected at 3 µg/L in October 2023, which is below its Class GA criteria. In reviewing other analytical data from MW-7-4, it is noted that both CO₂ and chloride have been trending upward since the remedial treatments of June 2016, and were measured at historically high concentrations of 40 mg/L and 587 mg/L, respectively, in 2022. CO₂ and chloride were measured at 43 mg/L and 442 mg/L,

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).



respectively, in 2023. These analytes, particularly chloride, have also been trending upward recently in the other downgradient wells and in the mid-plume wells (above).

Indicators of natural attenuation proximate to Building 7 include:

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

Building 8

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

The highest total COC concentrations have consistently been detected in MW-8-2 (9,570 µg/L in 2023) and MW-8-003-B (2,730 µg/L in 2023). The concentrations of COCs detected from both of these wells have generally increased since 2020.

The MNA data indicated there is limited to adequate evidence of anaerobic biodegradation (**Appendix D**), yet *cis*-DCE is the COC detected at the highest concentration in most locations where COCs are detected proximate to Building 8. This indicates reductive dechlorination of the parent compound (TCE) is occurring. With the exception of MW-8-003-B, and MW-8-3, the Building 8 monitoring wells have higher concentrations of the daughter compounds *cis*-1,2-DCE and VC relative to their parent compounds PCE and TCE. TCE was detected at a historically high concentration of 7.9 µg/L in 2023 at MW-8-3, which exceeds its Class GA criteria of 5 µg/L. Concentrations of TCE in groundwater analyzed from MW-8-3 last exceeded its Class GA criteria in May 2012.

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

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

Building 10

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

COCs are in the groundwater located between Buildings 7 and 10. This area was the location of an in-situ remedial injection program implemented in June 2016. Dramatic decreases in parent COC concentrations (TCE and PCE) and increases in breakdown daughter product concentrations (*cis*-DCE and VC) were observed in the post-injection analytical data



collected 30, 60, 90, and 180 days after injection. Post-injection data was provided to NYSDEC in December 2016 in the Final Engineering Report.

The October 2023 analytical results were generally consistent with the 2022 results. The four wells that may be considered upgradient of the source (MW-10-3, MW-9-101A, MW-9-12, and TK-6) contained no COCs at concentrations above the PQLs or above their respective Class GA criteria, and in most cases, there were no detections above laboratory detection limits. Well BLDG-10-MW-1, which may be near a source, showed high levels of both PCE and TCE (170,000 and 5,100 µg/L) and no detections of 1,2-DCE or VC, consistent with historical data. The MNA screening score (**Appendix D**) suggests there is adequate evidence for anaerobic biodegradation, the ORP shows a mildly reducing environment (26.6 mV), and the dissolved oxygen was 0.54 mg/L, but the levels of parent compounds PCE and TCE have not decreased over time, and there is a lack of daughter products, including ethene. The analysis of groundwater from downgradient well MW-10-2 found no detection of PCE, and TCE was below its Class GA criteria, while 1,2-DCE and VC were found at 438.2 and 180 µg/L, respectively, the highest observed since the remedial injections in 2016. Additionally, ORP (-84.8 mV) and DO (0.68 mg/L) measurements indicate a reducing environment, and ethene was detected at 88 µg/L. High amounts of PCE and TCE upgradient, and MNA screening scores indicate adequate evidence of anaerobic biodegradation in the vicinity of this well.

4.0 2023 GROUNDWATER MONITORING CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

Concentrations of COCs in groundwater analyzed from wells proximate to the BCP/DHTS Site boundaries (MW-7-1R, -7-2, -7-3, -7-4, and -7-P-1) were generally below MDLs and NYSDEC Class GA Criteria. Concentrations of the degradation products methane and chloride have been elevated in mid-plume wells and have been increasing in all of the downgradient boundary wells in recent years.

Results of the October 2023 groundwater monitoring otherwise indicates groundwater impacts remain within the spatial limits of the BCP and DHTS Sites (**Figure 3**). Analytical results continue to indicate the plumes are stable, as there is continuing evidence for anaerobic biodegradation in the area where remedial treatments were applied in June 2016.

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

Dramatic reductions in concentrations of parent COCs (TCE and PCE) have been observed at certain well locations (MW-7-A-6, MW-7-7, MW-7-8, and MW-10-2) proximate to the remedial injection areas, although all of these except MW-10-2 have seen some rebound in the last three sampling rounds. Additionally, these wells continue to exhibit concentrations of breakdown COCs (*cis*-DCE and VC), as well as VC degradation products (ethene, ethane, methane and CO₂). Notably, concentrations of PCE in wells MW-7-A-6 and MW-7-7, which are in the treatment area and downgradient of the potential source under Building 10, have displayed consistent and significant increases since their lows in 2018, with the results from the current sampling round being the highest concentrations since the treatment in 2016. These observations, along with field data indicating reducing conditions and the MNA screening scores (**Appendix D**), provide encouraging evidence of continuing enhanced natural attenuation due to the remedial injection program, but also indicate parent compounds may be migrating from the upgradient area near BLDG-10-MW-1.



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

RECOMMENDATIONS

GZA recommends:

- conducting the annual groundwater sampling event in the fall of 2024 in accordance with the SMP,
- sampling wells MW-7-7 and MW-7-A-6 for microbial genetic assays to verify the presence of bacteria (such as member of the *Dehalococcoides* genus) that perform reductive dechlorination of chlorinated contaminants.

Further considerations may include:

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



TABLES

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

Sample Location Sample Date		Class GA Criteria	BUILDING 7 AREA WELLS																					
			MW-7-1R 10/11/2023		MW-7-2 10/17/2023		MW-7-3 10/11/2023		MW-7-4 10/18/2023		MW-7-5 10/19/2023		MW-7-6 10/10/2023		MW-7-7 10/13/2023		MW-7-8 10/17/2023		MW-7-A-6 10/19/2023		MW-7-C-2 10/10/2023		MW-7-P-1 10/18/2023	
			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		1,100.0		630		36,000		410	F1	95,000		540		ND	
Tetrachloroethene		5	ND		ND		ND		ND		7,500		560		100,000		710	F1	64,000		ND		ND	
trans-1,2-dichloroethene		5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.4	
Trichloroethene		5	ND		ND		ND		3.3		1,200.0		310		20,000		220		13,000		ND		ND	
Vinyl Chloride		2	ND		ND		ND		ND		ND		9.2	J	6,000		590	F1	72,000		81		ND	
Total VOCs			ND		ND		ND		3.3		9,800.0		1,509.2		162,000		1,930		244,000		621		2.4	
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	17.9		15.3		17.2		15.5		15.8		16.2		16.6		17.80		17.3		16.9		21.0	
Specific Conductance (mS/cm)		NV	8.569		1.285		23.821		2.346		12.045		17.18		10.518		14.507		5.389		2.316		17.574	
Dissolved Oxygen (mg/L)		NV	0.6		4.01		0.62		2.9		0.58		0.5		0.46		1.91		0.59		0.71		0.67	
Oxygen Reduction Potential (mv)		NV	56.1		91.3		-76.3		-9.2		17.9		16.8		-233.9		-67.3		-60		-60.5		-101.6	
pH (std. units)		NV	6.84		7.16		6.83		7.49		6.76		6.99		6.85		6.63		6.49		6.92		6.51	
Turbidity (NTUs)		NV	2.89		-1.75		-0.78		-1.25		-1.01		0.65		8.13		8.75		0.3		-2.75		-2.05	
Inorganics (mg/L)																								
Iron		0.3	0.12		0.021	J	7.6		0.075	J	0.14		0.13		0.110	B	18.4		16.8		0.58		64.6	
Magnesium		35 ^{Note 4}	126		35.7		111		42.8		106		84.5		151		180		142		133		277	
Manganese		NV	0.87	B	0.0059	B	0.51	B	0.0068	B	1.1		0.32		0.036		0.99	B	2	B	0.35		3.5	B
Potassium		NV	7.7		1.3		25.5		3.3		15.0		13.5		39.6	B	39.4	^+	5.1		5.6		30.4	
Sodium		20	1230		104		4,950		255		2,600		3,480		1,550		2,740		481	^+	118		173	
Miscellaneous Water Quality Parameters																								
Methane (ug/L)		NV	33.0		ND		300		ND		12.0		250		870		150.0		1,400		320		6,100	
Ethane (ug/L)		NV	ND		ND		ND		ND		ND		7.8		ND		54.0		140		ND		34	
Ethene (ug/L)		NV	ND		ND		ND		ND		ND		ND		420		21.0		5,500		8.1		ND	
Carbon Dioxide (ug/L)		NV	67,000		38,000		94,000		43,000		96,000		44,000		56,000		43,000		300,000		53,000		110,000	
Total Organic Carbon (mg/L)		NV	1.5		1.3		3.5		ND		8.2		1.8		10.3		1.5		26.3		0.89	J	2.2	
Alkalinity (mg/L)		NV	337		362	B	434		384		464		327		298		108.0		516		338		132	
Ammonia (mg/L)		NV	0.050		ND		1.6	B	0.017	J	0.081		0.071		3.2		0.81		0.150		0.18		197	
Chloride (mg/L)		NV	2,720		181		8,240		442		5,610		5,830		3,410		5,060		1420		178		3,560	
Nitrate (mg/L)		NV	ND		ND		0.038	J	0.045	J	0.9		ND		ND		ND		ND		ND		0.038	J H
Nitrite (mg/L)		NV	ND		ND		ND	H	ND	F1	0.1		ND		ND		ND		ND		ND		ND	
Sulfate (mg/L)		NV	132.0		23.2		771		57.9		507		274		482		235		25.0	J	860		23.5	J
Sulfide (mg/L)		NV	ND		ND		ND		ND		ND		ND		3.2		ND		ND		ND		ND	

- Notes:
- Only compounds detected in one or more of the groundwater samples are presented in this table.
 - Analytical testing completed by TestAmerica in Amherst, New York.
 - Criteria is a guidance value.
 - Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; F1 = MS and/or MSD Recovery is outside acceptance limits. H = sample was prepped or analyzed outside of specified holding time.
 - mg/L = parts per million; ug/L = parts per billion
 - NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
 - ND = not detected NV = no value, NT = not tested.
 - Shaded concentrations exceed Class GA criteria.

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

Sample Location Sample Date		Class GA Criteria	BUILDING 8 AREA WELLS																
			MW-6-1 10/16/2023		MW-6-2 10/16/2023		MW-6-F-8 10/6/2023		MW-8-1 10/9/2023		MW-8-2 10/9/2023		MW-8-3 10/10/2023		MW-8-4 10/11/2023		MW-8-003-B 10/10/2023		
			Q		Q		Q		Q		Q		Q		Q		Q		
VOC Compounds of Concern (ug/L)																			
cis-1,2-Dichloroethene	5	ND		ND		ND		ND		7,700	F1	ND		46		1200			
Tetrachloroethene	5	ND		ND		ND		ND		ND		ND		ND		1200			
trans-1,2-dichloroethene	5	ND		ND		ND		ND		ND		ND		ND		ND			
Trichloroethene	5	ND		ND		0.67	J	1		1400		7.9		11		330			
Vinyl Chloride	2	ND		ND		ND		ND		470		ND		24		ND			
Total VOCs		ND		ND		0.67		1		9,570		7.9		81.0		2,730			
Polycyclic Aromatic Hydrocarbons (PAHs) (ug/L)																			
16 PAHs analyzed		NT		NT		NT		NT		NT		NT		NT		NT			
Field Parameters																			
Temperature (Deg. C)	NV	15.1		14.5		20.4		16.4		19.9		19.6		19.4		18.4			
Specific Conductance (mS/cm)	NV	4.476		3.944		3.423		5.470		0.997		6.349		10.049		11.047			
Dissolved Oxygen (mg/L)	NV	0.62		0.66		5.71		0.63		0.65		6.19		0.68		0.69			
Oxygen Reduction Potential (mv)	NV	-130.6		-37.6		129.3		-196.7		-123		-58.9		-29.5		118.4			
pH (std. units)	NV	6.93		7.05		7.12		6.93		7.19		7.01		7.2		7.5			
Turbidity (NTUs)	NV	17.18		-2.92		7.07		-0.23		-2.9		-2.36		-1.52		2.43			
Inorganics (mg/L)																			
Iron	0.3	24.6		0.16		0.19		0.034	J	4.50		0.047	J	0.38		0.12			
Magnesium	35 ^{Note 4}	63.7		50.6		53.1		121		41.6		60.5		44.6		11.2			
Manganese	NV	4.8		0.35		0.17	B	0.11	B	0.520	B	3.0		0.29	B	0.56			
Potassium	NV	5.0	B	5.2	B	2.3		19.1		9.6		414		13.1		6.2			
Sodium	20	642		677		777		614		74.1		362		2,220		2,070			
Miscellaneous Water Quality Parameters																			
Methane (ug/L)	NV	220.0		ND		ND		160		350	F1	35		530		ND			
Ethane (ug/L)	NV	ND		ND		ND		15		ND		ND		ND		ND			
Ethene (ug/L)	NV	ND		ND		ND		ND		ND		ND		ND		ND			
Carbon Dioxide (ug/L)	NV	120,000		57,000		28,000		58,000		44,000		45,000		27,000		ND			
Total Organic Carbon (mg/L)	NV	7.2		1.9		4.8		ND		ND		8		2.5		1.7			
Alkalinity (mg/L)	NV	512	B	436	B	289		276	B	343	B	235		332		279			
Ammonia (mg/L)	NV	1.7		0.025		0.076		1.2		0.31	F1	5.2		0.057		0.16			
Chloride (mg/L)	NV	1,100		1,450		1,530		1,320		158		1,790		3,220		2,900			
Nitrate (mg/L)	NV	ND		ND		0.15		ND		ND		0.21		0.021	J	0.062			
Nitrite (mg/L)	NV	ND		ND		0.044	J B	ND		ND	F1	0.046	J	ND		0.048	J		
Sulfate (mg/L)	NV	29.8		101		175		869		62.3		73.9		297		106			
Sulfide (mg/L)	NV	ND		ND		ND		6		ND		ND		ND		ND			

- Notes:
- Only compounds detected in one or more of the groundwater samples are presented in this table.
 - Analytical testing completed by TestAmerica in Amherst, New York.
 - Criteria is a guidance value.
 - Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; F1 = MS and/or MSD Recovery is outside acceptance limits. H = sample was prepped or analyzed outside of specified holding time.
 - mg/L = parts per million; ug/L = parts per billion
 - NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
 - ND = not detected NV = no value, NT = not tested.
 - Shaded concentrations exceed Class GA criteria.

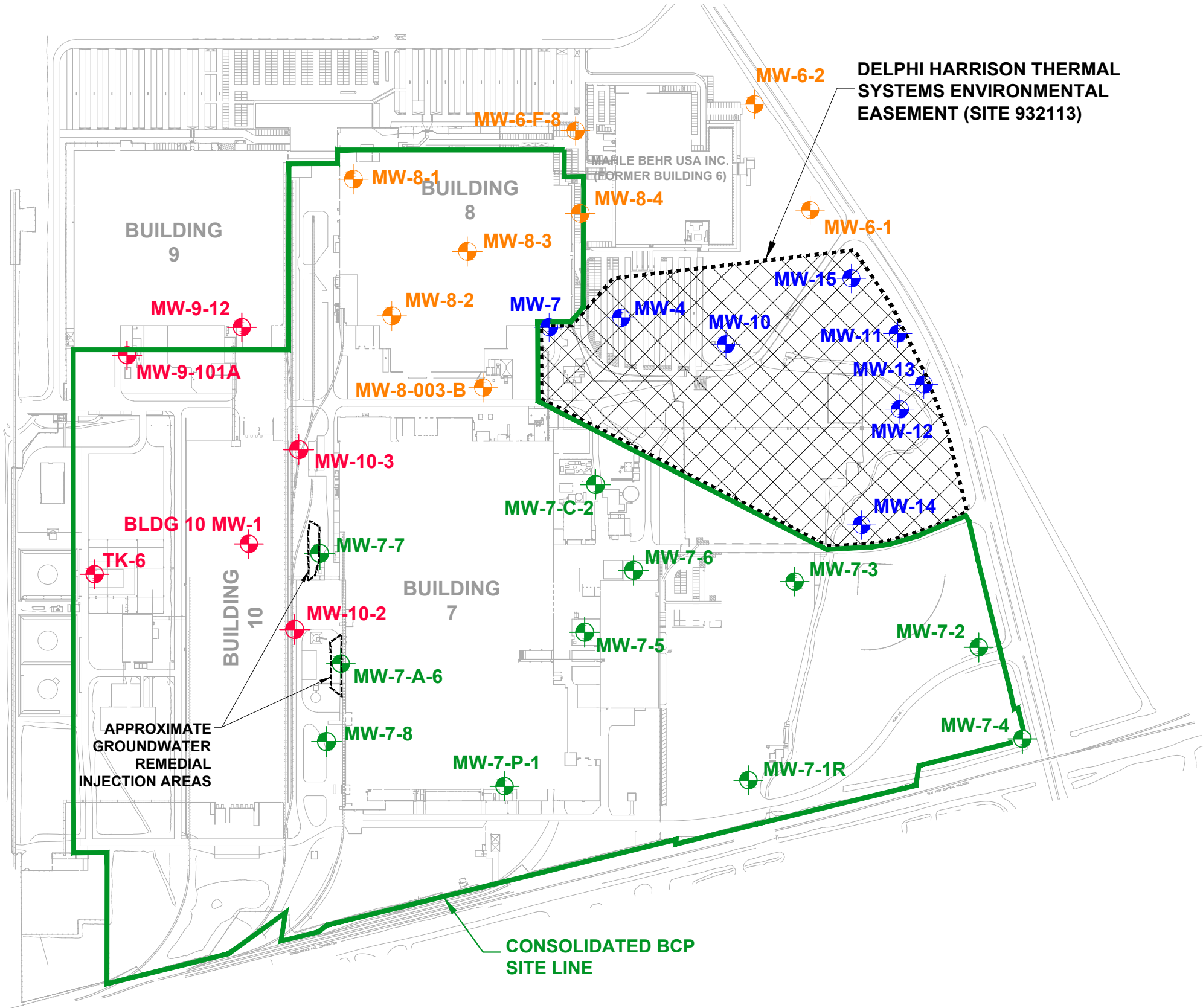
Table 1
Summary of Groundwater Sample Analytical Results
GMCH Lockport Brownfield Cleanup Program
Site No. C932138

Sample Location Sample Date	Class GA Criteria	BUILDING 10 AREA WELLS											
		MW-9-101A 10/6/2023		MW-9-12 10/17/2023		TK-6 10/5/2023		BLDG-10-MW-1 10/16/2023		MW-10-2 10/13/2023		MW-10-3 10/11/2023	
		Q		Q		Q		Q		Q		Q	
VOC Compounds of Concern (ug/L)													
cis-1,2-Dichloroethene	5	ND		ND		ND		ND		430.0	F1	1.6	
Tetrachloroethene	5	ND		ND		ND		170,000		ND		2.7	
trans-1,2-dichloroethene	5	ND		ND		ND		ND		8.2		ND	
Trichloroethene	5	1.1		ND		ND		5,100		3.60	J	4.9	
Vinyl Chloride	2	ND		ND		ND		ND		180		ND	
Total VOCs		1.1		ND		ND		175,100		618		9	
Polycyclic Aromatic Hydrocarbons (PAHs) (ug/L)													
16 PAHs analyzed		ND		ND		NT		NT		NT		NT	
Field Parameters													
Temperature (Deg. C)	NV	19.7		15.6		21.9		20.6		17.8		16.9	
Specific Conductance (mS/cm)	NV	11.26		3.905		8.961		2.634		9.929		1.350	
Dissolved Oxygen (mg/L)	NV	0.85		0.63		2.43		0.54		0.68		0.82	
Oxygen Reduction Potential (mv)	NV	166.5		7		92.9		-26.6		-84.8		48.3	
pH (std. units)	NV	6.96		7.17		7		6.76		7.28		7.56	
Turbidity (NTUs)	NV	-2.6		5.09		-1.99		-3.01		3.56		-2.72	
Inorganics (mg/L)													
Iron	0.3	ND		0.18		ND		1		0.78	B	ND	
Magnesium	35 ^{Note 4}	109		34.4		102		103		50.2		24.5	
Manganese	NV	0.047	B	0.6	B	0.0041	B	0.7		0.23		0.0013	J B
Potassium	NV	24.5		5.4		2.5		4.6	B	8.9	B	7.8	
Sodium	20	1,920		676		1,450		134		1,390		136	
Miscellaneous Water Quality Parameters													
Methane (ug/L)	NV	ND		17.0		ND		3.7	J	72	F1	ND	
Ethane (ug/L)	NV	ND		ND		ND		ND		6.9	J	ND	
Ethene (ug/L)	NV	ND		ND		ND		1.5	J	88	F1	ND	
Carbon Dioxide (ug/L)	NV	37,000		30,000		42,000		74,000		23,000		ND	
Total Organic Carbon (mg/L)	NV	4.4		1.5		1.2		4.7		1.8		0.86	J
Alkalinity (mg/L)	NV	276		331	F1	320		310	B	238	F1	157	F1
Ammonia (mg/L)	NV	ND		0.120		ND		0.16		0.3		ND	
Chloride (mg/L)	NV	3,210		1,040		2,450		570		2,250		134	
Nitrate (mg/L)	NV	0.13		0.14		0.87		ND		ND		0.81	
Nitrite (mg/L)	NV	0.041	J B	ND		0.035	J B	ND		ND	F1	ND	
Sulfate (mg/L)	NV	1,150		119.0		135		231		180		191	
Sulfide (mg/L)	NV	ND		ND		ND		ND	F1	ND	F1	ND	

- Notes:
- Only compounds detected in one or more of the groundwater samples are presented in this table.
 - Analytical testing completed by TestAmerica in Amherst, New York.
 - Criteria is a guidance value.
 - Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; F1 = MS and/or MSD Recovery is outside acceptance limits. H = sample was prepped or analyzed outside of specified holding time.
 - mg/L = parts per million; ug/L = parts per billion
 - NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
 - ND = not detected NV = no value, NT = not tested.
 - Shaded concentrations exceed Class GA criteria.



FIGURES



LEGEND:

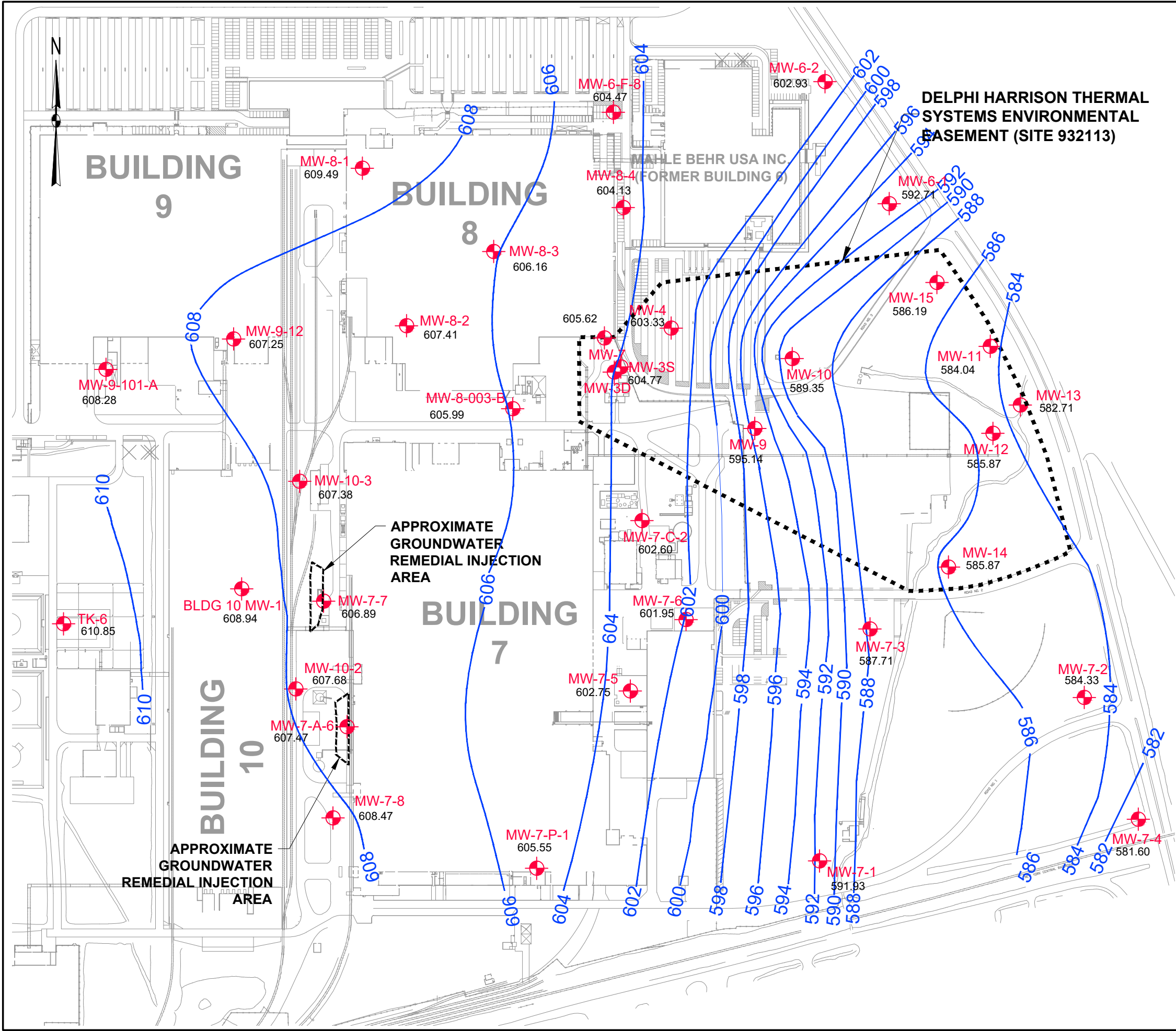
- MW-11** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITHIN THE DELPHI HARRISON THERMAL SYSTEMS SITE
- MW-7-2** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING 7
- MW-6-1** APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH BUILDING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



NO.	ISSUE/DESCRIPTION		BY DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY			
2023 BCP SITE ANNUAL GROUNDWATER MONITORING SITE PLAN			
PREPARED BY:  GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GMCH LOCKPORT FACILITY 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK	
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO 1
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JANUARY 2024	PROJECT NO. 21.0056546.20	REVISION NO.	
SHEET NO. 1 OF 4			



LEGEND:

APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS SAMPLED OCTOBER 2023 WITH GROUNDWATER ELEVATION (FEET) MEASURED ON 10/02/2023.

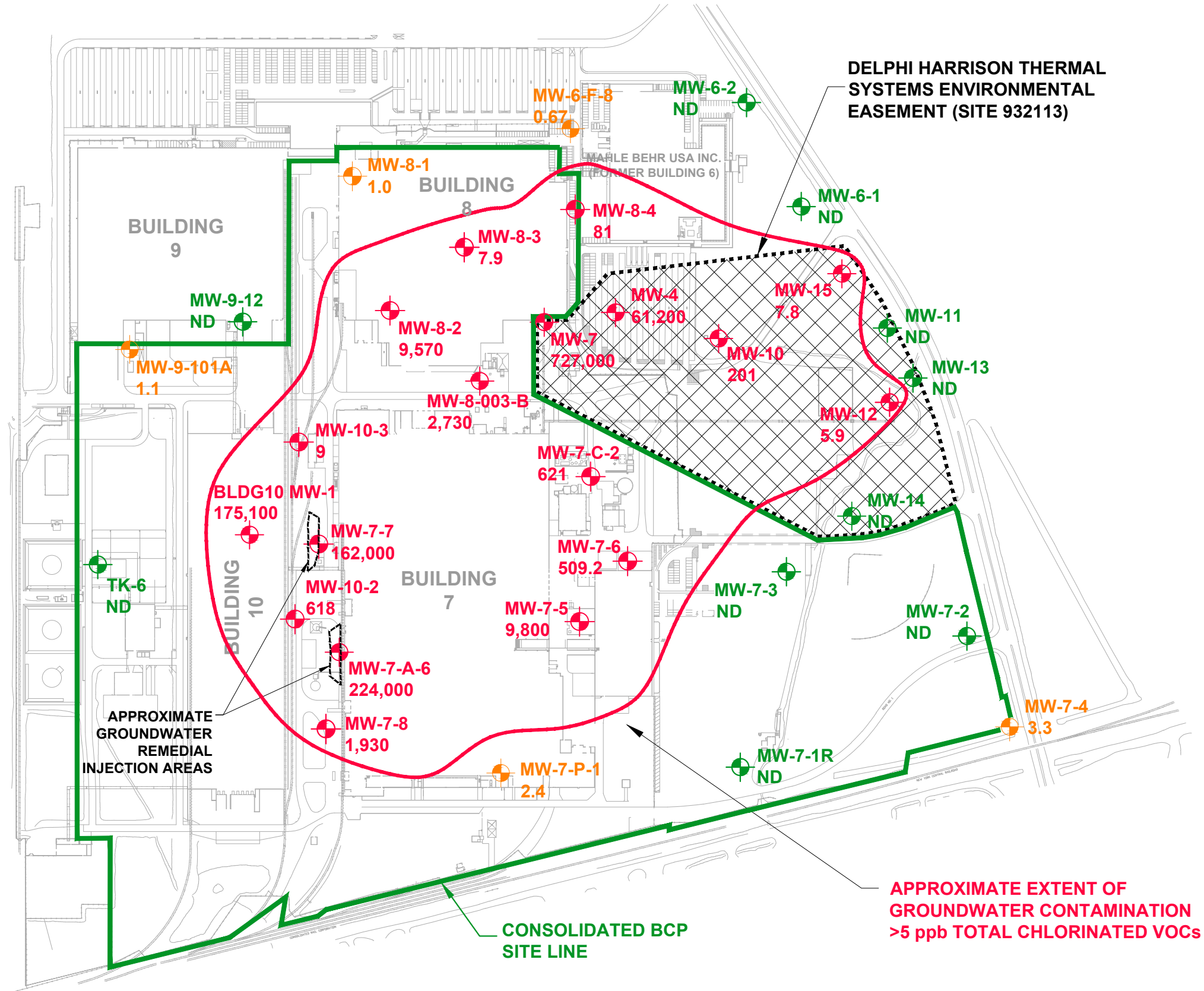
GROUNDWATER ELEVATION CONTOUR

- 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 10/02/2023 GROUNDWATER MEASUREMENTS.



NO.		ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.				
GM COMPONENTS HOLDINGS, LLC LOCKPORT, NEW YORK FACILITY				
2023 BCP SITE ANNUAL GROUNDWATER MONITORING SITEWIDE GROUNDWATER CONTOUR MAP				
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GMCH LOCKPORT FACILITY 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK		
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO.	
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	2	
DATE: JANUARY 2024	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 2 OF 4	

©2024 - GZA GeoEnvironmental, Inc. GZA-K:\21\PROJECTS\56500a\56546 GM Component LLC\BCP Sites Annual Low Flow Samp\October 2023\Fig 1 & 3 - 2023.dwg [FIGURE 3] January 22, 2024 - 12:58pm Michael.Kress



LEGEND:

-  **MW-6-1 ND**
APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH NON-DETECT LEVELS FOR CHLORINATED SOLVENTS
-  **MW-8-1 1.0**
APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH TOTAL CHLORINATED SOLVENT LEVELS MEASURING LESS THAN 5 PARTS PER BILLION (ppb)
-  **MW-15 7.8**
APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS WITH TOTAL CHLORINATED SOLVENT LEVELS MEASURING GREATER THAN 5 PARTS PER BILLION (ppb)

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.
3. GROUNDWATER SAMPLES COLLECTED BETWEEN 10/05/2023 AND 10/19/2023.



NO.		ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.				
GM COMPONENTS HOLDINGS, LLC LOCKPORT FACILITY				
2023 BCP SITE ANNUAL GROUNDWATER MONITORING EXTENT OF CHLORINATED SOLVENT CONTAMINATION				
PREPARED BY:  GZA GeoEnvironmental of N.Y. Engineers and Scientists www.gza.com		PREPARED FOR: GM COMPONENTS HOLDINGS, LLC 200 UPPER MOUNTAIN ROAD LOCKPORT, NEW YORK		
PROJ MGR: TB	REVIEWED BY: TB	CHECKED BY: BAK	FIGURE NO	
DESIGNED BY: MDK	DRAWN BY: MDK	SCALE: AS SHOWN	3	
DATE: JANUARY 2024	PROJECT NO. 21.0056546.20	REVISION NO.	SHEET NO. 3 OF 4	

MW-10-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-09	24	24	38	ND	1.4
2014-05-22	14	9	11	ND	ND
2015-05-20	13	7.2	10	ND	ND
2016-05-18	3.4	3	7.2	ND	ND
2017-05-08	2.4	3.8	3.7	ND	ND
2018-05-18	2	2.9	2.1	ND	ND
2019-05-29	3.1	4.5	3.6	ND	ND
2020-07-06	3	3.5	1.2	ND	ND
2021-08-27	13	12	12	ND	ND
2022-09-26	2.9	4.5	1	ND	ND
2023-10-11	2.7	4.9	1.6	ND	ND

MW-9-101A					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-10-01	ND	ND	ND	ND	ND
2014-05-22	ND	ND	ND	ND	ND
2015-05-21	ND	ND	ND	ND	ND
2016-05-18	ND	ND	ND	ND	ND
2017-05-05	ND	ND	ND	ND	ND
2018-05-29	ND	ND	ND	ND	ND
2019-05-23	ND	ND	ND	ND	ND
2020-07-13	ND	ND	ND	ND	ND
2021-08-31	ND	ND	ND	ND	ND
2022-09-26	ND	ND	ND	ND	ND
2023-10-06	ND	1.1	ND	ND	ND

BLDG-10-MW-1					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-10-01	160000	3100	ND	ND	ND
2014-06-03	120000	2300	ND	ND	ND
2015-05-26	120000	2600	ND	ND	ND
2016-05-19	140000	2700	ND	ND	ND
2017-05-10	150000	3400	630	ND	ND
2018-05-31	150000	3600	ND	ND	ND
2019-05-31	160000	4100	ND	ND	ND
2020-07-13	170000	5200	ND	ND	ND
2021-09-01	140000	4100	ND	ND	ND
2022-10-03	140000	4300	ND	ND	ND
2023-10-16	170000	5100	ND	ND	ND

TK-6					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-10-07	ND	1.9	ND	ND	ND
2014-06-02	ND	ND	ND	ND	ND
2015-05-20	ND	ND	ND	ND	ND
2016-05-19	ND	ND	ND	ND	ND
2017-05-10	0.91	ND	ND	ND	ND
2018-05-29	ND	ND	ND	ND	ND
2019-05-23	ND	ND	ND	ND	ND
2020-07-06	ND	ND	ND	ND	ND
2021-08-30	ND	ND	ND	ND	ND
2022-10-03	ND	ND	ND	ND	ND
2023-10-05	ND	ND	ND	ND	ND

MW-7-7					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-08	120000	2300	4400	ND	ND
2014-05-29	76000	3400	8700	ND	1800
2015-05-12	70000	3900	13000	ND	3500
2016-05-12	84000	7500	26000	ND	4900
2017-05-09	51000	13000	61000	ND	4900
2018-05-18	23000	24000	26000	ND	8100
2019-05-28	54000	19000	41000	ND	6200
2020-07-07	68000	6800	54000	ND	9600
2021-08-27	67000	5300	35000	ND	8400
2022-10-04	68000	17000	35000	ND	7200
2023-10-13	100000	20000	35000	ND	6000

MW-10-2					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-09	450	150	2600	ND	60
2014-05-22	240	83	1900	24	70
2015-05-19	140	150	1300	18	38
2016-05-17	200	590	1500	20	62
2017-05-08	ND	ND	210	21	2600
2018-05-30	ND	ND	35	22	49
2019-05-29	ND	ND	6.8	7.7	15
2020-07-06	1	ND	140	6.5	98
2021-09-01	ND	ND	19	4.6	33
2022-10-03	0.65	ND	21	1.6	23
2023-10-13	3.6	ND	430	8.2	180

MW-7-A-6					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-08	140000	28000	25000	ND	ND
2014-05-30	130000	23000	29000	110	1500
2015-05-18	120000	19000	28000	ND	ND
2016-05-12	170000	17000	28000	ND	ND
2017-05-09	26000	65000	99000	ND	1800
2018-05-18	ND	1100	120000	ND	13000
2019-05-28	1400	1500	160000	ND	18000
2020-07-07	ND	ND	62000	ND	18000
2021-08-27	15000	3200	90000	ND	20000
2022-10-05	48000	8600	200000	ND	110000
2023-10-19	64000	13000	95000	ND	72000

MW-9-12					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-10-01	ND	ND	ND	ND	ND
2014-05-21	ND	ND	ND	ND	ND
2015-05-21	ND	ND	ND	ND	ND
2016-05-19	ND	ND	ND	ND	ND
2017-05-05	ND	ND	ND	ND	ND
2018-05-31	ND	ND	ND	ND	ND
2019-05-30	ND	ND	ND	ND	ND
2020-07-13	ND	ND	ND	ND	ND
2021-08-31	ND	ND	ND	ND	ND
2022-09-25	ND	ND	ND	ND	ND
2023-10-17	ND	ND	ND	ND	ND

MW-8-2					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-13	ND	200	7800	77	270
2014-05-16	ND	110	6400	ND	150
2015-05-22	10	24	1600	ND	ND
2016-05-17	ND	47	5200	16	260
2017-05-02	ND	ND	2800	ND	ND
2018-05-10	ND	ND	1900	ND	110
2019-05-30	ND	ND	3300	ND	58
2020-07-10	ND	11	4500	12	480
2021-08-30	ND	ND	7500	ND	930
2022-09-27	ND	ND	6500	ND	3000
2023-10-09	ND	1400	7700	ND	470

MW-8-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-14	0.49	0.78	3	ND	ND
2014-05-16	ND	ND	2.22	ND	ND
2015-05-21	ND	ND	1.8	ND	ND
2016-05-18	ND	3.9	3.4	ND	ND
2017-05-02	ND	ND	1.9	ND	ND
2018-05-11	ND	2.8	3.7	ND	ND
2019-05-31	0.91	1	3.1	ND	ND
2020-07-10	ND	ND	ND	ND	ND
2021-08-30	ND	1.3	6.2	ND	14
2022-09-28	ND	2.8	9.3	ND	25
2023-10-10	ND	7.9	ND	ND	ND

MW-6-F-8					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-14	ND	ND	ND	ND	ND
2014-05-30	ND	ND	ND	ND	ND
2015-05-14	ND	ND	ND	ND	ND
2016-05-09	ND	ND	ND	ND	ND
2017-05-01	ND	ND	ND	ND	ND
2018-05-16	ND	ND	ND	ND	ND
2019-05-14	ND	ND	ND	ND	ND
2020-06-29	ND	ND	ND	ND	ND
2021-08-26	ND	ND	ND	ND	ND
2022-09-29	ND	ND	ND	ND	ND
2023-10-06	ND	0.67	ND	ND	ND

MW-6-2					
Date	TCE	PCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-14	ND	ND	ND	ND	ND
2014-05-14	ND	ND	ND	ND	ND
2015-05-14	ND	ND	ND	ND	ND
2016-05-09	ND	ND	ND	ND	ND
2017-05-03	ND	ND	ND	ND	ND
2018-05-16	ND	ND	ND	ND	ND
2019-05-21	0.7	ND	ND	ND	ND
2020-06-26	ND	ND	ND	ND	ND
2021-08-24	ND	ND	ND	ND	ND
2022-09-29	ND	ND	ND	ND	ND
2023-10-16	ND	ND	ND	ND	ND

MW-8-1					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-10	ND	ND	ND	ND	ND
2014-05-15	ND	ND	0.88	ND	ND
2015-05-22	ND	ND	ND	ND	ND
2016-05-16	ND	ND	0.9	ND	ND
2017-05-02	ND	0.51	ND	ND	ND
2018-06-01	ND	ND	0.82	ND	ND
2019-05-30	ND	ND	0.87	ND	ND
2020-07-10	ND	ND	0.84	ND	ND
2021-08-30	ND	ND	0.85	ND	ND
2022-09-27	ND	0.76	1.1	ND	ND
2023-10-09	ND	1	ND	ND	ND

MW-8-4					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-13	ND	7.9	43	ND	12
2014-06-02	ND	5.4	17	ND	3.4
2015-05-12	ND	6.2	42	ND	24
2016-05-09	ND	7.1	42	ND	16
2017-05-01	ND	6.6	43	ND	11
2018-05-11	ND	7.2	44	ND	7
2019-05-14	ND	8.1	48	ND	12
2020-07-02	ND	9.5	60	ND	17
2021-08-25	ND	12	67	ND	29
2022-09-28	ND	5.9	27	ND	10
2023-10-11	ND	11	46	ND	24

MW-8-003-B					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-10	880	390	790	ND	120
2014-05-29	55	46	220	ND	31
2015-05-14	83	10	12	ND	ND
2016-05-16	120	23	9.2	ND	ND
2017-05-04	52	7.7	2.6	ND	ND
2018-05-30	240	35	92	ND	7.3
2019-05-29	410	58	130	ND	ND
2020-07-10	1700	ND	ND	ND	ND
2021-08-26	2300	550	1300	ND	170
2022-09-28	2100	350	870	ND	ND
2023-10-10	1200	330	1200	ND	ND

MW-7-3					
Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
2013-05-06	ND	ND	7	ND	38
2014-06-03	ND	ND	5.7	ND	57
2015-05-11	ND	ND	ND	ND	50
2016-05-10	ND	ND	2.6	ND	9.9
2017-05-03	ND	ND	ND	ND	ND
2018-05-17	ND	ND	ND	ND	ND
2019-05-24	ND	1.9	ND	ND	ND
2020-06-30	ND	ND	ND	ND	1.8
2021-08-23	ND	ND	ND	ND	ND
2022-10-05	ND	ND	ND	ND	ND
2023-10-11	ND	ND	ND	ND	ND

MW-7-2					
Date	PCE	TCE	c-1,2-DCE	trans-1,2-DCE	VC
2013-05-06	ND	ND	ND	ND	ND
2014-05-23	ND	ND	ND	ND	ND
2015-05-12	ND	ND	ND	ND	ND
2016-05-10	ND	ND	ND	ND	ND
2017-05-10	ND	4	ND	ND	ND
2018-05-17	ND	ND	ND	ND	ND
2019-05-23	ND	0.86	ND	ND	ND
2020-06-30	ND	ND	ND	ND	ND
2021-08-23	ND	ND	ND	ND	ND
2022-10-04	ND	ND	ND	ND	ND
2023-10-17	ND	ND	ND	ND	ND



APPENDIX A

MONITORING WELL OBSERVATIONS AND GROUNDWATER SAMPLING LOGS

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GMCH Lockport - Annual BCP GW Samp. PROJECT NO. 56-546.20 T. 4
 SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Bohlen
 DATE OF SAMPLE COLLECTION 10/10/23 - 10/19/23

[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-7-1-101123	MW-7-1	596.96	~~22.48~~ 5.14		591.82	2.8		0.8	6.84	17.9	8.569	1145	VOC MNA
MW-7-2-101723	MW-7-2	592.57	21.64	8.24	584.33	2.2		1.6	7.16	15.3	1.285	1330	VOC MNA
MW-7-3-101123	MW-7-3	593.03	24.94	3.90	589.13	3.4		0.9	6.83	~~17.2~~ 23.82		1000	VOC MNA
MW-7-4-101823	MW-7-4	593.53	21.42	12.28	581.25	1.5		1.7	7.49	15.5	2.346	1230	VOC MNA
MW-7-5-101923	MW-7-5	610.96	21.93	7.39	603.57	2.4		~~1.4~~	~~6.76~~	~~15.8~~	~~12.045~~	~~0950~~	VOC MNA
MW-7-6-101023	MW-7-6	606.30	16.52	4.44	601.86	2.0		0.75	6.99	16.2	17.180	1645	VOC MNA
MW-7-7-101323	MW-7-7	610.24	22.07	3.20	607.04	3.1		1.3	6.85	16.6	10.518	1350	VOC MNA
MW-7-8-101723	MW-7-8	610.92	19.43	2.56	608.36	2.8		3.1	6.63	17.8	14.507	1530	VOC MNA

Additional Comments:

Duplicate collected at MW-7-5 (Dupe - 2 - 101923) 10/19/23

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 & GW Sampling

PROJECT NO. 56546.20 T. 4

SAMPLING CREW MEMBERS Morgan Brown

SUPERVISOR ~~Richard~~

DATE OF SAMPLE COLLECTION 10/10/23 - 10/19/23

Bohlen

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

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-7-A-6-101923	MW-7-A-6	610.72	14.00	2.94	607.78	1.8	/	0.8	6.49	17.3	5.389	1130	VOC MNA
MW-7-C-2-101023	MW-7-C-2	608.96	24.05	6.38	602.58	2.9	/	0.6	6.92	16.9	2.316	1830	VOC MNA
MW-7-P-1-101823	MW-7-P-1	-	19.88	9.94	-	1.6	/	0.8	6.51	21.0	17.574	1045	VOC MWA
							/						
							/						
							/						
							/						
							/						

Additional Comments:

Copies to:

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Annual GW Sampling
 Ref. No.: 56546-JD Task 4

Date: 10/11/23
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-1R
 Measurement Point: TOR
 Constructed Well Depth (ft): 33.7
 Measured Well Depth (ft): _____
 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⁾: 2.8
 Initial Depth to Water (ft): 5.14

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⁾
1045	75*	5.37		6.94	17.9	8.633	49.3	2.38	1.18	0	
1050		5.52		6.88	17.8	8.678	57.1	1.50	-0.58	0.1	
1055		5.61		6.86	18.0	8.658	60.3	1.03	-0.52	0.2	
1100		5.75		6.85	17.9	8.642	60.9	0.91	-1.16	0.3	
1105		5.81		6.85	18.1	8.585	59.0	0.67	0.81	0.45	
1110		5.86		6.84	18.0	8.579	57.4	0.63	1.50	0.6	
1115		5.88		6.84	17.9	8.570	56.7	0.62	2.80	0.65	
1120		5.89		6.84	17.9	8.569	56.1	0.60	2.89	0.7	

Notes:

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

* Lowest rate

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/16/23 / 10/17/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: -15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Initial Depth to Water (ft): 8.24

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⁾
0925	until dry	9.21		6.98	14.3	1.159	172.4	1.97	-2.71	0.0	
0930		9.96		6.97	14.9	1.155	170.3	0.91	-1.30	0.2	
0935		11.29		7.03	15.1	1.078	163.8	0.86	7.48	0.4	
0940		12.57		7.08	15.2	1.063	156.9	0.89	19.80	0.6	
0945		13.45		7.10	15.2	1.074	173.7	2.28	45.45	0.9	
0950		14.71		7.04	15.0	1.130	98.2	1.35	71.38	1.2	
0955		15.25		7.03	14.9	1.147	99.2	1.15	93.13	1.5	
13		8.22		7.46	15.3	1.285	91.3	4.01	-1.75	0.1	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi(D/2)^2(5'12)(2.54)^3$
- 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 .

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-7-2</u>
WELL PURGING INFORMATION				
<u>11011623</u> PURGE DATE (MM DD YY)	<u>11011723</u> SAMPLE DATE (MM DD YY)	<u>111212</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11116</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT: ☒ DEDICATED ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT: ☒ DEDICATED ☐ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP 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	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE <u>E</u>	C - ROPE	X- _____ (SPECIFY)		
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1592.57</u> (m/ft)	GROUNDWATER ELEVATION <u>1584.33</u> (m/ft)		WELL DEPTH <u>21.64</u> (m/ft)	
DEPTH TO WATER <u>8.24</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>Clear</u> TURBIDITY <u>None</u>				
WEATHER CONDITIONS WIND SPEED <u>10-15</u> DIRECTION <u>WSW</u> PRECIPITATION <u>Y/N</u> OUTLOOK <u>Y</u>				
SPECIFIC COMMENTS <u>Purged on 10/16/23 Sampled 10/17/23</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
<u>10/16/23</u> DATE	<u>Morgan Brown</u> PRINT	<u>Morgan Brown</u> SIGNATURE		

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

PID @ TOR = 0.0

PID @ ^{breathing} space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/11/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 15 - 25 = 10
 Depth to Pump Intake (ft)⁽¹⁾: 20
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 3.4
 Initial Depth to Water (ft): 3.90

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0905	80*	4.33		6.65	16.6	24.631	-50.0	1.77	0.73	0	
0910		4.94		6.52	17.0	24.042	-66.7	1.08	0.40	0.15	
0915		5.25		6.53	17.1	24.072	-68.4	0.93	2.15	0.25	
0920		5.63		6.54	16.9	24.085	-69.3	0.83	0.14	0.35	
0925		5.89		6.84	16.9	24.057	-69.3	0.73	1.37	0.4	
0930		6.14		6.84	17.0	23.979	-70.7	0.68	1.38	0.55	
0935		6.39		6.84	17.1	23.942	-72.5	0.65	0.82	0.65	
0940		6.59		6.83	17.2	23.821	-76.3	0.62	0.78	0.8	

Notes:

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

* lowest rate available

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-7-3</u>
WELL PURGING INFORMATION				
<u>11011123</u> PURGE DATE (MM DD YY)	<u>11011123</u> SAMPLE DATE (MM DD YY)	<u>111314</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11109</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - SLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATERRAID	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 H - TEFLO/POLYPROPYLENE	X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE <u>E</u>				X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1159303</u> (m/ft)	GROUNDWATER ELEVATION <u>11589113</u> (m/ft)		WELL DEPTH <u>112494</u> (m/ft)	
DEPTH TO WATER <u>11390</u> (m/ft)				
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>250</u> (mV)	DO <u>8.5</u> (mg/L)
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>250</u> (mV)	DO <u>8.5</u> (mg/L)
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>250</u> (mV)	DO <u>8.5</u> (mg/L)
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>250</u> (mV)	DO <u>8.5</u> (mg/L)
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>250</u> (mV)	DO <u>8.5</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> COLOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>Suspended Solvent</u>				
WEATHER CONDITIONS WIND SPEED <u>5-15</u> DIRECTION <u>WSW</u> PRECIPITATION Y/N OUTLOOK _____				
SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS				
<u>10/11/23</u> DATE	<u>Moran Brown</u> PRINT	<u>[Signature]</u> SIGNATURE		

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/17/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: ~17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 1.5
 Initial Depth to Water (ft): ~~12.28~~ 12.28

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0905	until dry	12.61		6.94	14.7	2.019	132.4	3.70	-2.17	0	
0910		13.62		6.90	14.8	2.024	130.1	2.23	-2.96	0.3	
0915		14.79		6.95	15.1	2.020	124.7	2.53	-2.25	0.6	
0920		16.07		6.98	15.1	2.017	119.3	2.89	-0.05	1.0	
0925		17.43		6.95	15.0	2.021	115.6	2.29	0.54	1.5	
1205	75	13.01		7.49	15.5	2.346	129.2	2.90	-1.25	0.1	

Notes:

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

WELL PURGING FIELD INFORMATION FORM

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

JOB# 56546-20

WELL# MW-7-4

WELL PURGING INFORMATION

110117123

PURGE DATE
(MM/DD/YY)

110118123

SAMPLE DATE
(MM/DD/YY)

11115

WATER VOL IN CASING
(LITRES/GALLONS)

10.8

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

SAMPLING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

PURGING DEVICE

B

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

B

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERBATH

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON

D - PVC

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

C - POLYPROPYLENE

E - POLYETHYLENE

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON

D - POLYPROPYLENE

F - SILICONE

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

B - TYGON

E - POLYETHYLENE

C - COMBINATION
TEFLON/POLYPROPYLENE

X-

SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45

☐

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION

11593.53

(m/ft)

GROUNDWATER

ELEVATION

11581.25

(m/ft)

DEPTH TO WATER

1122.8

(m/ft)

WELL DEPTH

1121.42

(m/ft)

pH

7.5
7.5
7.5
7.5
7.5

TURBIDITY

0.1
0.1
0.1
0.1
0.1

CONDUCTIVITY

150
150
150
150
150
AT 25°C

ORP

150
150
150
150
150
(mV)

DO

10.8
10.8
10.8
10.8
10.8
(mg/L)

SAMPLE TEMPERATURE

10.8
10.8
10.8
10.8
10.8
(°C)

FIELD COMMENTS

SAMPLE APPEARANCE

Good

ODOR

None

COLOR

Clear

TURBIDITY

None

WEATHER CONDITIONS

WIND SPEED

8-10

DIRECTION

WSW

PRECIPITATION Y/N OUTLOOK

N

SPECIFIC COMMENTS

Purged dry 10/17/23 Sampled 10/18/23

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

DATE
10/17/23

PRINT
Morgan Brown

SIGNATURE
[Signature]

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

PID @ TOR = 0.3

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/19/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 7'
 Depth to Pump Intake (ft)⁽¹⁾: 18
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.4
 Initial Depth to Water (ft): 7.39

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⁾
0840	85	7.91		6.34	15.6	16.360	145.7	1.78	0.86	0	
0845		8.60		6.70	15.3	15.605	132.9	1.02	-0.51	0.2	
0850		9.14		6.77	15.4	13.713	124.2	0.90	-0.35	0.3	
0855		9.71		6.90	15.6	8.811	58.8	0.77	-1.01	0.4	
0900		10.36		6.97	15.9	6.110	6.7	0.71	0.55	0.5	
0910		11.21		6.85	15.7	7.601	-6.9	0.62	-0.40	0.6	
0915		11.43		6.83	15.9	8.257	-3.4	0.60	-0.37	0.7	
0920		11.57		6.77	15.8	11.955	-17.3	0.59	-0.83	0.9	
0925		11.69		6.76	15.8	12.045	-17.9	0.58	-1.01	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, $V_s = p \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- 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>GMH Lockport BCL Annual GW Sampling</u>				WELL# <u>MW-7-5</u>	
WELL PURGING INFORMATION					
<u>11/01/19/23</u> PURGE DATE (MM DD YY)		<u>11/01/19/23</u> SAMPLE DATE (MM DD YY)		<u>11/24</u> WATER VOL IN CASING (LITRES/GALLONS)	
ACTUAL VOLUME PURGED <u>11.4</u> (LITRES/GALLONS)					
PURGING AND SAMPLING EQUIPMENT					
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)			SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE	☒ B A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X- ☐ B B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAID PURGING OTHER (SPECIFY)				
SAMPLING DEVICE	☒ B C - SLADDER PUMP F - DIMPER BOTTLE X- SAMPLING OTHER (SPECIFY)				
PURGING DEVICE	☒ E A - TEFLON D - PVC X- ☐ B 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 B - TYGON E - POLYETHYLENE G - COMBINATION PURGING OTHER (SPECIFY)				
SAMPLING DEVICE	☒ E C - ROPE X- (SPECIFY) SAMPLING OTHER (SPECIFY)				
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION <u>1610.96</u> (m/ft)		GROUNDWATER ELEVATION <u>603.57</u> (m/ft)			
DEPTH TO WATER <u>7.39</u> (m/ft)		WELL DEPTH <u>21.93</u> (m/ft)			
pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(um/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(um/cm) AT 25°C	(mV)	(mg/L)	(°C)
FIELD COMMENTS					
SAMPLE APPEARANCE <u>Good</u> ODOR <u>slight solvent</u> COLOR <u>clear</u> TURBIDITY <u>seen</u>					
WEATHER CONDITIONS WIND SPEED <u>5-10</u> DIRECTION <u>SW</u> PRECIPITATION Y/N <u>N</u> OUTLOOK <u>N</u>					
SPECIFIC COMMENTS <u>Duplicate 2 collected 10/19/23</u>					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS					
<u>10/19/23</u> DATE		<u>Morgan Brown</u> PRINT		<u>[Signature]</u> SIGNATURE	

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

PID @ TOR = 0.7

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/10/23
 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-7-6
 Measurement Point: TOR
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): _____
 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 (mL)⁽²⁾: 2.0
 Initial Depth to Water (ft): 4.44

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⁾
1511	70	4.70		6.87	20.7	17.377	51.0	1.85	-1.93	0	
1545		4.47		6.99	15.6	17.260	25.9	0.80	-1.90	0.1	
1550		4.55		6.99	15.6	17.247	26.2	0.93	-2.38	0.1	
1555		4.60		6.98	15.1	17.357	21.5	0.70	-2.60	0.25	
1605		4.65		6.98	15.8	17.344	20.8	0.65	-0.75	0.3	
1610		4.75		6.98	16.0	17.274	20.2	0.61	-1.27	0.35	
1615		4.83		6.98	16.1	17.272	18.5	0.54	-0.63	0.4	
1620		4.87		6.99	16.1	17.225	17.2	0.51	0.41	0.45	
1625		4.89		6.99	16.2	17.175	17.0	0.50	0.69	0.5	
1630		4.91		6.99	16.2	17.180	16.8	0.50	0.65	0.55	

Notes:

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

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: 6 MCH Lockport Bt
Annual GW Sampling

JOB# 56546-20

WELL# MW-7-6

WELL PURGING INFORMATION

11/01/02/3

PURGE DATE
(MM DD YY)

11/01/02/3

SAMPLE DATE
(MM DD YY)

11/01/02/3

WATER VOL IN CASING
(LITRES/GALLONS)

11/01/02/3

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT DEDICATED ☒ N
(CIRCLE ONE)

SAMPLING EQUIPMENT DEDICATED ☒ N
(CIRCLE ONE)

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

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

FIELD MEASUREMENTS

WELL ELEVATION

11/60/6/3/0

(m/ft)

GROUNDWATER ELEVATION

11/60/1/8/6

(m/ft)

DEPTH TO WATER

11/4/4/4

(m/ft)

WELL DEPTH

11/6/5/2

(m/ft)

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

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR clear COLOR clear TURBIDITY orange sediment
WEATHER CONDITIONS WIND SPEED 10-20 DIRECTION WSW PRECIPITATION Y/N OUTLOOK y
SPECIFIC COMMENTS

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

DATE 10/10/23

PRINT Morgan Brown

SIGNATURE [Signature]

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

PID @ TOR = 342.3

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/13/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 3.1
 Initial Depth to Water (ft): 3.20

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⁾
1215		3.34		6.88	17.1	10.044	-135.9	1.81	2.34	0	
1220		3.47		6.86	16.8	10.343	-167.8	0.86	2.24	0.1	
1225		3.53		6.86	16.7	10.401	-172.8	0.74	1.95	0.2	
1230		3.65		6.86	16.7	10.494	-181.7	0.61	0.38	0.3	
1235		3.71		6.86	16.7	10.514	-193.9	0.55	1.87	0.5	
1240		3.75		6.86	16.7	10.522	-205.3	0.52	5.63	0.6	
1245		3.80		6.86	16.7	10.519	-217.5	0.50	8.23	0.7	
1250		3.86		6.85	16.7	10.523	-223.9	0.48	8.05	0.9	
1255		3.90		6.85	16.6	10.518	-233.9	0.46	8.13	1.1	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# 56546-20
SITE/PROJECT NAME: <u>GMH Lockport BCF Annual GW Sampling</u>				WELL# MW-7-7
WELL PURGING INFORMATION				
101323 PURGE DATE (MM DD YY)	101323 SAMPLE DATE (MM DD YY)	31 WATER VOL IN CASING (LITRES/GALLONS)	113 ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ N (CIRCLE ONE)		
PURGING DEVICE B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP		D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	
SAMPLING DEVICE B	G - BAILER H - WATERRA®		X- _____ PURGING OTHER (SPECIFY)	
PURGING DEVICE E	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE		D - PVC E - POLYETHYLENE	
SAMPLING DEVICE E	C - POLYPROPYLENE		X- _____ PURGING OTHER (SPECIFY)	
PURGING DEVICE E	A - TEFLON B - TYGON C - ROPE		D - POLYPROPYLENE E - POLYETHYLENE F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE E	X- _____ (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)	
FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION 161024 (m/ft)	GROUNDWATER ELEVATION 160704 (m/ft)		WELL DEPTH 2207 (m/ft)	
DEPTH TO WATER 320 (m/ft)	pH 7.5 (std)	TURBIDITY 0.5 (ntu)	CONDUCTIVITY 150 (µm/cm) AT 25°C	ORP 150 (mV)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOR <u>Solvent</u> COLOR <u>clear/shaen</u>		TURBIDITY <u>suspended solvent</u>		
WEATHER CONDITIONS WIND SPEED <u>5-10</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				
10/13/23	Morgan Brown		[Signature]	
DATE	PRINT		SIGNATURE	

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

PID @ TOR = 27.1

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/16/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): 12.7 - 19.7 = 7
 Depth to Pump Intake (ft)⁽¹⁾: 14
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 2.8
 Initial Depth to Water (ft): 2.56

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1015	until dry	3.17		6.68	17.8	14.028	-66.6	3.05	19.90	0	
1020		4.97		6.80	18.5	13.446	-112.8	0.76	25.23	0.3	
1025		7.80		6.42	18.6	13.182	-75.6	0.71	57.93	0.5	
1030		8.84		6.10	18.6	13.076	-34.2	0.79	76.53	0.0	
1035		10.38		6.15	18.5	12.800	-38.6	0.76	144.86	1.5	
1040		10.50		6.59	18.5	12.552	-95.2	0.64	231.66	2.0	
1050		13.86		6.93	18.1	12.539	-139.7	0.20	64.44	3.0	
1500		4.53		6.63	17.8	14.507	-67.3	1.91	8.75	0.1	

Notes:

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

WELL PURGING FIELD INFORMATION FORM

SITE/PROJECT NAME: GMCH Lockport B2
Annual GW Sampling

JOB# 56546-20

WELL# MW-7-8

WELL PURGING INFORMATION

101623

PURGE DATE
(MM DD YY)

101723

SAMPLE DATE
(MM DD YY)

128

WATER VOL IN CASING
(LITRES/GALLONS)

31

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

SAMPLING EQUIPMENT... DEDICATED ☒ N

(CIRCLE ONE)

PURGING DEVICE

B

A - SUBMERSIBLE PUMP

D - GAS LIFT PUMP

G - BAILER

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

B

B - PERISTALTIC PUMP

E - PURGE PUMP

H - WATERRA®

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON

D - PVC

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

C - POLYPROPYLENE

E - POLYETHYLENE

X-

SAMPLING OTHER (SPECIFY)

PURGING DEVICE

E

A - TEFLON

D - POLYPROPYLENE

F - SILICONE

X-

PURGING OTHER (SPECIFY)

SAMPLING DEVICE

E

B - TYGON

F - POLYETHYLENE

G - COMBINATION
TEFLON/POLYPROPYLENE

X-

SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.15

☐

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION

610.92

(m/ft)

GROUNDWATER
ELEVATION

608.36

(m/ft)

DEPTH TO WATER

12.56

(m/ft)

WELL DEPTH

119.93

(m/ft)

pH

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

TURBIDITY

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

CONDUCTIVITY

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

ORP

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

DO

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

SAMPLE TEMPERATURE

(°C) (°C) (°C) (°C) (°C)

FIELD COMMENTS

SAMPLE APPEARANCE

Good

ODOR

solvent

COLOR

Sheen

TURBIDITY

none

WEATHER CONDITIONS

WIND SPEED

10-15

DIRECTION

WSW

PRECIPITATION Y/N OUTLOOK

Y

SPECIFIC COMMENTS

Purged 10/16/23 Sampled 10/17/23
2nd

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

10/16/23

DATE

Morgan Brown

PRINT

[Signature]

SIGNATURE

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

PID @ TOR = 390.6

PID @ ^{breathing}space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/19/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 12
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (mL)⁽²⁾: 1.8
 Initial Depth to Water (ft): 2.94

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⁾
1045		3.29		6.74	17.3	6.676	-48.7	2.04	2.86	0	
1050		3.45		6.66	17.3	6.510	-49.8	1.16	1.50	0.1	
1055		3.47		6.59	17.0	6.035	-54.6	0.86	1.12	0.2	
1100		3.59		6.58	17.1	5.821	-56.6	0.78	-0.23	0.3	
1105		3.67		6.53	17.2	5.589	-58.3	0.68	-0.86	0.4	
1110		3.84		6.48	17.2	5.481	-59.6	0.63	-0.36	0.6	
1115		3.90		6.49	17.3	5.389	-60.0	0.59	-0.30	0.7	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi \cdot (D/2)^2 \cdot (5 \cdot 12) \cdot (2.54)^3$
- 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 .

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

PID @ Breathing space = 0.0

Project Data:

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

Date: 10/10/23
Personnel: M. Brown

Well No.: MW-7-C-2

Measurement Point: TOR

Constructed Well Depth (ft): 24.0

Measured Well Depth (ft): _____

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⁾: 2.9

Initial Depth to Water (ft): 6.38

[illegible]

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

✱ Lowest speed

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-C-2</u>
WELL PURGING INFORMATION				
<u>11011023</u> PURGE DATE (MM DD YY)	<u>11011023</u> SAMPLE DATE (MM DD YY)	<u>1129</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>1106</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT: ☒ DEDICATED ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT: ☒ DEDICATED ☐ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATER RAO	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- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.35 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM (SPECIFY)				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1608.916</u> (m/ft)	GROUNDWATER ELEVATION <u>1602.518</u> (m/ft)		WELL DEPTH <u>240.5</u> (m/ft)	
DEPTH TO WATER <u>163.8</u> (m/ft)				
pH <u>7.00</u> (std)	TURBIDITY <u>0.00</u> (ntu)	CONDUCTIVITY <u>163.8</u> (um/cm) AT 25°C	ORP <u>163.8</u> (mV)	DO <u>163.8</u> (mg/L)
pH <u>7.00</u> (std)	TURBIDITY <u>0.00</u> (ntu)	CONDUCTIVITY <u>163.8</u> (um/cm) AT 25°C	ORP <u>163.8</u> (mV)	DO <u>163.8</u> (mg/L)
pH <u>7.00</u> (std)	TURBIDITY <u>0.00</u> (ntu)	CONDUCTIVITY <u>163.8</u> (um/cm) AT 25°C	ORP <u>163.8</u> (mV)	DO <u>163.8</u> (mg/L)
pH <u>7.00</u> (std)	TURBIDITY <u>0.00</u> (ntu)	CONDUCTIVITY <u>163.8</u> (um/cm) AT 25°C	ORP <u>163.8</u> (mV)	DO <u>163.8</u> (mg/L)
pH <u>7.00</u> (std)	TURBIDITY <u>0.00</u> (ntu)	CONDUCTIVITY <u>163.8</u> (um/cm) AT 25°C	ORP <u>163.8</u> (mV)	DO <u>163.8</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>none</u> WEATHER CONDITIONS WIND SPEED <u>10-20</u> DIRECTION <u>WSW</u> PRECIPITATION Y/N OUTLOOK <u>N</u> SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS <u>10/10/23</u> <u>Morgan Brown</u> <u>Morgan Brown</u> DATE PRINT SIGNATURE				

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

PID @ TOR = 1.5

PID @ breathing space = 0.5 - 0.9

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

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

Date: 10/18/23
 Personnel: M. Brown

Monitoring Well Data:

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

Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: 17
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (mL)⁽²⁾: 1.6
 Initial Depth to Water (ft): 9.94

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⁾
1000	80	10.29		6.88	20.7	17.548	-61.1	1.54	-3.03	0	
1005		10.62		6.43	20.8	17.653	-88.1	0.94	-3.15	0.1	
1010		10.81		6.47	20.9	17.630	-93.2	0.65	-3.25	0.2	
1015		10.94		6.49	20.9	17.632	-98.0	0.74	-2.99	0.3	
1020		11.01		6.51	21.0	17.699	-100.6	0.69	-2.95	0.5	
1025		11.09		6.51	21.0	17.674	-101.6	0.67	-3.05	0.6	

Notes:

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

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. 56546.2074
 SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Bohlen
 DATE OF SAMPLE COLLECTION 10/6/23 - 10/16/23

[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-6-1-101623	MW6-1	598.23	18.79	5.63	592.60	2.2	/	0.7	6.93	15.1	4.476	1300	VOC MNA
MW-6-2-101623	MW-6-2	609.33	26.11	6.32	603.01	3.2	/	0.5	7.05	14.5	3.944	1500	VOC MNA
MW-6-F-8-100623	MW-6-F-8	602.26	14.33	7.75	604.51	1.1	/	0.6	7.12	20.4	3.425	1300	VOC MNA
MW-8-1-100923	MW-8-1	615.11	20.10	5.41	609.70	2.4	/	0.5	6.93	16.4	5.470	1345	VOC MNA
MW-8-2-100923	MW-8-2	615.14	22.78	7.61	607.53	2.5	/	0.4	7.19	19.9	0.997	1130	VOC MNA
MW-8-3-101023	MW-8-3	615.06	22.08	8.68	606.38	2.2	/	3.6	7.01	19.6	6.349	1745	VOC MNA
MW-8-4-101123	MW-8-4	613.01	21.40	9.04	603.97	2.0	/	0.9	7.20	19.4	10.049	1330	VOC MNA
MW-8-003-B-101023	MW-8-003-B	610.94	14.32	4.76	606.18	1.6	/	0.6	7.50	18.4	11.042	1000	VOC MNA

Additional Comments:

MS/MSD: MW8-7-100923 - MS/MSD
 Dupe-101023: MW-8-003-B

Copies to:

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/16/23
 Rel. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-1 Screen Length (ft): 7-17 = 10
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 12
 Constructed Well Depth (ft): 17 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 5.63

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⁾
1215	75	6.96		7.00	15.2	4.508	-116.9	1.80	84.88	0	
1220		6.02		6.95	15.2	4.456	-121.6	1.05	57.52	0.1	
1225		6.09		6.94	15.2	4.454	-124.1	0.86	52.36	0.2	
1230		6.09		6.93	15.0	4.455	-124.0	0.76	21.42	0.3	
1235		6.10		6.93	15.1	4.467	-129.3	0.66	18.37	0.4	
1240		6.10		6.93	15.1	4.476	-130.6	0.62	17.18	0.5	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# 56546-20	
SITE/PROJECT NAME: CMCH Lockport Annual 1 BCA Site GW Sampling				WELL# MW-6-11	
WELL PURGING INFORMATION					
11011623 PURGE DATE (MM DD YY)	11011623 SAMPLE DATE (MM DD YY)	122 WATER VOL IN CASING (LITRES/GALLONS)	07 ACTUAL VOLUME PURGED (LITRES/GALLONS)		
PURGING AND SAMPLING EQUIPMENT					
PURGING EQUIPMENT ☒ DEDICATED ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT ☒ DEDICATED ☐ N (CIRCLE ONE)			
PURGING DEVICE B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP		D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE		
SAMPLING DEVICE B	G - BAILER H - WATERRAD		X- _____ PURGING OTHER (SPECIFY)		
PURGING DEVICE E	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE		D - PVC E - POLYETHYLENE		
SAMPLING DEVICE E	X- _____ PURGING OTHER (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)		
PURGING DEVICE E	A - TEFLON B - TYGON C - ROPE		D - POLYPROPYLENE E - POLYETHYLENE F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE		
SAMPLING DEVICE E	X- _____ (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)		
FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION 1598.23 (m/ft)	GROUNDWATER ELEVATION 1592.60 (m/ft)		WELL DEPTH 187.9 (m/ft)		
DEPTH TO WATER 15.63 (m/ft)					
pH (std)	TURBIDITY (ntu)	CONDUCTIVITY (um/cm) AT 25°C	ORP (mV)	DO (mg/l)	SAMPLE TEMPERATURE (°C)
 (std)	 (ntu)	 (um/cm) AT 25°C	 (mV)	 (mg/l)	 (°C)
 (std)	 (ntu)	 (um/cm) AT 25°C	 (mV)	 (mg/l)	 (°C)
 (std)	 (ntu)	 (um/cm) AT 25°C	 (mV)	 (mg/l)	 (°C)
 (std)	 (ntu)	 (um/cm) AT 25°C	 (mV)	 (mg/l)	 (°C)
FIELD COMMENTS					
SAMPLE APPEARANCE Good ODOR none COLOR Clear/Orange TURBIDITY some WEATHER CONDITIONS WIND SPEED 5-10 DIRECTION WSW PRECIPITATION Y/N OUTLEAK Y SPECIFIC COMMENTS _____					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS DATE 10/16/23 PRINT Morgan Brown SIGNATURE Morgan Brown					

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

PID @ TOR = 0.0

AID @ Breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual 1 BCP Site GW Sampling Date: 10/16/23
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-2 Screen Length (ft): 14.6 - 26.6 = 10
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 19
 Constructed Well Depth (ft): 29.16 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 3.2
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 6.32

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⁾
1415	70	6.45		7.17	14.7	3.960	-42.5	2.02	8.97	0	
1420		6.46		7.11	14.6	3.953	-45.7	1.55	-7.86	0.1	
1425		6.44		7.08	14.5	3.945	-47.1	0.91	-2.95	0.15	
1430		6.44		7.07	14.5	3.944	-43.2	0.81	-2.99	0.2	
1435		6.44		7.06	14.5	3.942	-38.3	0.70	-2.95	0.25	
1446		6.44		7.05	14.5	3.944	-37.6	0.66	-2.92	0.3	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>CMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-6-2</u>
WELL PURGING INFORMATION				
PURGE DATE (MM DD YY) <u>11/01/16</u>	SAMPLE DATE (MM DD YY) <u>11/01/16</u>	WATER VOL IN CASING (LITRES/GALLONS) <u>13.2</u>	ACTUAL VOLUME PURGED (LITRES/GALLONS) <u>10.5</u>	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - SLADDER PUMP	D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	G - BAILER H - WATERBATH	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- _____ SAMPLING OTHER (SPECIFY)			
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1609.33</u> (m/ft)	GROUNDWATER ELEVATION <u>1603.01</u> (m/ft)		WELL DEPTH <u>126.11</u> (m/ft)	
DEPTH TO WATER <u>63.2</u> (m/ft)				
pH _____ (std)	TURBIDITY _____ (ntu)	CONDUCTIVITY _____ (um/cm) AT 25°C	ORP _____ (mV)	DO _____ (mg/L)
_____ (std)	_____ (ntu)	_____ (um/cm) AT 25°C	_____ (mV)	_____ (mg/L)
_____ (std)	_____ (ntu)	_____ (um/cm) AT 25°C	_____ (mV)	_____ (mg/L)
_____ (std)	_____ (ntu)	_____ (um/cm) AT 25°C	_____ (mV)	_____ (mg/L)
_____ (std)	_____ (ntu)	_____ (um/cm) AT 25°C	_____ (mV)	_____ (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u>	ODOR <u>none</u>	COLOR <u>yellow</u>	TURBIDITY <u>none</u>	PRECIPITATION Y/N OUTLOOK <u>Y</u>
WEATHER CONDITIONS	WIND SPEED <u>5-10</u>	DIRECTION <u>WSW</u>		
SPECIFIC COMMENTS				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>10/16/23</u> <u>Morgan Brown</u> <u>[Signature]</u> DATE PRINT SIGNATURE				

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

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

Project Data:

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

Date: 10/6/23
Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-6-F-8

Measurement Point: TOP

Constructed Well Depth (ft): 15.4

Measured Well Depth (ft):

Depth of Sediment (ft): _____

Screen Length (ft): $8 - 15.4 = 7.4$

Depth to Pump Intake (ft)⁽ⁿ⁾: 12

Well Diameter, D (in): 2

Well Screen Volume, V_s (mL)⁽²⁾: 1.1

Initial Depth to Water (ft): 7.75

[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, $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- (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), $\text{No. of Well Screen Volumes Purged} = V_p/V_s$.

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/19/23
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-1 Screen Length (ft): 7
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 17
 Constructed Well Depth (ft): 22.5 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 2.4
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 5.41

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1315	80*	5.61		6.82	16.4	5.419	-123.8	2.01	0.61	0.0	
1320		5.72		6.92	16.4	5.473	-172.5	0.97	0.22	0.1	
1325		5.74		6.92	16.4	5.472	-176.5	0.85	0.43	0.2	
1330		5.86		6.93	16.4	5.472	-188.0	0.67	0.06	0.35	
1335		5.91		6.93	16.4	5.471	-192.3	0.65	0.09	0.3	
1340		5.91		6.93	16.4	5.474	-195.6	0.63	0.20	0.4	
1345		5.92		6.93	16.4	5.470	-196.7	0.63	0.23	0.45	

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.

* Lowest setting possible

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

PID @ TOR = 0.7

AID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/9/23
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-2 Screen Length (ft): 16.23
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 19
 Constructed Well Depth (ft): 23.0 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 2.5
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 7.61

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1040	80	8.03		7.32	20.0	2.171	-100.0	1.72	-1.59	0.0	
1045		8.08		7.29	19.8	1.935	-106.1	1.37	-2.40	0.1	
1050		8.45		7.23	19.9	1.233	-116.1	0.97	-2.88	0.2	
1055		8.40		7.20	19.9	1.096	-120.7	0.79	-2.96	0.25	
1100		8.50		7.19	20.2	1.001	-122.4	0.70	-2.88	0.30	
1105		8.52		7.19	19.9	0.997	-123.0	0.65	-2.90	0.35	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport Annual 1 BCP Site GW Sampling</u>				WELL# <u>MW-8-2</u>
WELL PURGING INFORMATION				
<u>11/01/23</u> PURGE DATE (MM DD YY)	<u>11/01/23</u> SAMPLE DATE (MM DD YY)	<u>11/24</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11/04</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 <u>B</u>	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - SLADDER PUMP		D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE	
SAMPLING DEVICE <u>B</u>	G - BAILER H - WATERRA®		X- _____ PURGING OTHER (SPECIFY)	
PURGING DEVICE <u>E</u>	A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE		D - PVC E - POLYETHYLENE	
SAMPLING DEVICE <u>E</u>	X- _____ (SPECIFY)		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	
SAMPLING DEVICE <u>E</u>	X- _____ (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)	
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE ☐ B - PRESSURE ☐ C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1615.14</u> (m/ft)	GROUNDWATER ELEVATION <u>1607.53</u> (m/ft)		WELL DEPTH <u>2278</u> (m/ft)	
DEPTH TO WATER <u>7.61</u> (m/ft)				
pH <u>7.61</u> (std)	TURBIDITY <u>7.61</u> (ntu)	CONDUCTIVITY <u>7.61</u> (um/cm) AT 25°C	ORP <u>7.61</u> (mV)	DO <u>7.61</u> (mg/L)
pH <u>7.61</u> (std)	TURBIDITY <u>7.61</u> (ntu)	CONDUCTIVITY <u>7.61</u> (um/cm) AT 25°C	ORP <u>7.61</u> (mV)	DO <u>7.61</u> (mg/L)
pH <u>7.61</u> (std)	TURBIDITY <u>7.61</u> (ntu)	CONDUCTIVITY <u>7.61</u> (um/cm) AT 25°C	ORP <u>7.61</u> (mV)	DO <u>7.61</u> (mg/L)
pH <u>7.61</u> (std)	TURBIDITY <u>7.61</u> (ntu)	CONDUCTIVITY <u>7.61</u> (um/cm) AT 25°C	ORP <u>7.61</u> (mV)	DO <u>7.61</u> (mg/L)
pH <u>7.61</u> (std)	TURBIDITY <u>7.61</u> (ntu)	CONDUCTIVITY <u>7.61</u> (um/cm) AT 25°C	ORP <u>7.61</u> (mV)	DO <u>7.61</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>None</u> COLOR <u>Clear</u> TURBIDITY <u>None</u>				
WEATHER CONDITIONS WIND SPEED <u>10-23</u> DIRECTION <u>WSW</u> PRECIPITATION <u>Y/N</u> OUTLOOK <u>N</u>				
SPECIFIC COMMENTS <u>MS/MSD samples collected 10-9-23</u>				
<u>MW-8-2-100923-MS</u>				
<u>MW-8-2-100923-MSD</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
<u>10/9/23</u> DATE	<u>Morgan Brown</u> PRINT	<u>[Signature]</u> SIGNATURE		

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

PID @ TOR = 0.1

AID @ Breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/9/23 - 10/10/23
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-3 Screen Length (ft): 7
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 19
 Constructed Well Depth (ft): 22.4 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 2.2
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 8.68

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⁾
0935	until dry	9.28		6.89	20.4	8.360	-51.7	1.90	0.79	0.1	
0940		11.12		6.91	20.5	6.185	-57.5	0.77	50.91	0.35	
0945		12.93		6.98	20.6	5.907	-60.3	0.66	107.24	0.75	
0950		14.72		6.97	20.7	5.862	-36.0	0.58	174.40	1.10	
0955		15.78		6.98	20.7	5.843	-29.9	0.55	200.08	1.50	
1000		16.31		6.99	20.8	5.843	-28.0	0.55	216.38	1.80	
1005		17.04		7.02	20.8	5.814	-35.7	0.88	230.75	2.0	
1010		17.91		7.02	20.7	5.802	-38.9	0.96	248.52	2.2	
1020		19.03		6.98	20.4	5.923	-39.2	0.88	259.60	2.5	
1730	70	12.61		7.01	19.6	6.349	-58.9	6.14	2.36	0.1/3.6	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport Annual 1 BCP Site GW Sampling</u>				WELL# <u>MW-8-3</u>
WELL PURGING INFORMATION				
<u>11/09/23</u> PURGE DATE (MM DD YY)	<u>10/10/23</u> SAMPLE DATE (MM DD YY)	<u>122</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>136</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 - WATERRAM	X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE ☒ E	C - SLADDER 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	D - POLYPROPYLENE F - SILICONE			X- _____ PURGING OTHER (SPECIFY)
SAMPLING DEVICE ☒ E	B - TYGON E - POLYETHYLENE C - COMBINATION TEFLON/POLYPROPYLENE			X- _____ SAMPLING OTHER (SPECIFY)
C - ROPE X- _____ (SPECIFY)				
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1615.06</u> (m/ft)	GROUNDWATER ELEVATION <u>1606.88</u> (m/ft)		WELL DEPTH <u>220.8</u> (m/ft)	
DEPTH TO WATER <u>86.8</u> (m/ft)				
pH <u>7.5</u> (std)	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (um/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>8.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>8.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>8.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>8.5</u> (mg/L)
<u>7.5</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>8.5</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOR <u>Solvent</u> COLOR <u>Clear</u> TURBIDITY <u>None</u>				
WEATHER CONDITIONS WIND SPEED <u>10-20</u> DIRECTION <u>WSW</u> PRECIPITATION Y/N OUTLOOK <u>Y</u>				
SPECIFIC COMMENTS <u>Purged dry 10/9/23 Sampled 10/10/23</u>				
<u>Well was left to recover for 30 hours before sampling</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS				
<u>10/9/23</u> DATE		<u>Morgan Brown</u> PRINT		<u>Morgan Brown</u> SIGNATURE

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

PID @ TOR = 0.0

PID @ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/11/23
 Ref. No.: 56546.20 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-4 Screen Length (ft): 14.8 - 21.8 = 7
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 18
 Constructed Well Depth (ft): 21.8 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 2.0
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 9.04

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⁾
1245		9.67		7.26	19.0	10.442	-9.8	1.72	-1.74	0	
1250		9.86		7.24	18.9	10.520	-28.2	1.20	-1.86	0.1	
1255		10.35		7.23	19.0	10.160	-30.9	0.84	-0.51	0.2	
1300		10.58		7.22	19.0	10.047	-29.3	0.79	-1.50	0.3	
1305		10.72		7.20	19.2	10.010	-29.4	0.74	-1.45	0.4	
1310		10.81		7.20	19.3	10.016	-29.5	0.76	-1.36	0.5	
1315		10.86		7.20	19.4	10.049	-29.5	0.68	-1.52	0.6	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 5-foot screen length, $V_s = \pi (D/2)^2 (5'12") (2.54)$
- 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 .

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

PID @ TOR = 22.7

PID @ Breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport Annual BCP Site GW Sampling Date: 10/10/23
 Ref. No.: 56546.30 Task 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-8-003-B Screen Length (ft): _____
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 12
 Constructed Well Depth (ft): 15 Well Diameter, D (in): _____
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 106
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 4.76

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
0935	80	5.02		7.34	18.1	11.174	137.2	1.88	10.89	0.0	
0930		5.07		7.46	18.3	11.231	126.7	1.04	3.37	0.1	
0935		5.08		7.47	18.5	11.217	123.6	0.86	2.99	0.2	
0940		5.08		7.48	18.5	11.174	121.0	0.78	3.52	0.25	
0945		5.08		7.49	18.4	11.122	119.8	0.72	2.68	0.3	
0950		5.07		7.50	18.4	11.086	119.4	0.70	2.27	0.35	
0955		5.07		7.50	18.4	11.042	118.4	0.69	2.43	0.4	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-20</u>
SITE/PROJECT NAME: <u>GMCH Lockport Annual 1 BCP Site GW Sampling</u>				WELL# <u>MW-8-003-B</u>
WELL PURGING INFORMATION				
<u>101023</u> PURGE DATE (MM DD YY)	<u>101023</u> SAMPLE DATE (MM DD YY)	<u>11116</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>11106</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT.....DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE	☒ A - SUBMERSIBLE PUMP ☐ D - GAS LIFT PUMP ☐ G - BAILER ☐ B - PERISTALTIC PUMP ☐ E - PURGE PUMP ☐ H - WATERRA®		X- _____ PURGING OTHER (SPECIFY)	
SAMPLING DEVICE	☒ C - BLADDER PUMP ☐ F - DIPPER BOTTLE		X- _____ SAMPLING OTHER (SPECIFY)	
PURGING DEVICE	☒ E A - TEFLON ☐ D - PVC ☐ 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 ☐ B - TYGON ☐ E - POLYETHYLENE ☐ G - COMBINATION		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>16110.914</u> (m/ft)		GROUNDWATER ELEVATION	<u>1606.116</u> (m/ft)
DEPTH TO WATER	<u>147.16</u> (m/ft)		WELL DEPTH	<u>1143.2</u> (m/ft)
pH	TURBIDITY	CONDUCTIVITY	ORP	DO
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
<u>7.1</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (µm/cm) AT 25°C	<u>150</u> (mV)	<u>1.0</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>None</u> COLOR <u>Orange/Sheen</u> TURBIDITY <u>Same</u> WEATHER CONDITIONS WIND SPEED <u>10-20</u> DIRECTION <u>WSW</u> PRECIPITATION Y/N OUTLOOK <u>Y</u> SPECIFIC COMMENTS <u>Dupe - 101023 collected at well MW-8-003-B</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>101023</u> <u>Morgan Brown</u> <u>[Signature]</u> DATE PRINT SIGNATURE				

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

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GMCH Lockport Annual BCP Site GW Sampling PROJECT NO. 56546.20 T 4
 SAMPLING CREW MEMBERS Morgan Brown SUPERVISOR Bohlen
 DATE OF SAMPLE COLLECTION 10/5/23 - 10/17/23

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

Sample ID. 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-9-12-101723	MW-9-12	614.92	15.51	7.93	606.99	1.2	/	1.0	7.17	15.6	3.905	1100	VOC MWA PAH
MW-9-101-A-100623	MW-9-101-A	613.53	12.21	5.24	608.29	1.1	/	0.3	6.96	19.7	11.260	1100	VOC MWA PAH
BLDG-10-MW-1-101627	BLDG-10-MW-1	615.05	15.53	6.16	608.89	1.5	/	0.7	6.78	20.6	2.634	1700	VOC MWA
MW-10-2-101323	MW-10-2	611.26	16.09	3.56	607.70	2.0	/	1.1	7.28	17.8	9.429	1000	VOC MWA
MW-10-3-101123	MW-10-3	610.40	15.40	3.17	609.08	2.0	/	0.5	7.56	16.9	1.350	1500	VOC MWA
TK-6-100523	TK-6	621.69	13.22	10.95	610.74	0.4	/	0.7	7.00	21.9	8.961	1530	VOC MWA
							/						
							/						

Additional Comments:

MS/MSD collected at MW-10-2

Copies to:

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

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

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10/6/23
Ref. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-9-101-A

Measurement Point: TOR

Constructed Well Depth (ft): 12.54

Measured Well Depth (ft): _____

Depth of Sediment (ft): _____

Screen Length (ft): 5
Depth to Pump Intake (ft)⁽¹⁾: ~8
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)⁽²⁾: 1.1
Initial Depth to Water (ft): 5.24

[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>6MCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>MW-9-10</u> - A	
WELL PURGING INFORMATION					
<u>1100623</u> PURGE DATE (MM DD YY)	<u>1100623</u> SAMPLE DATE (MM DD YY)	<u>1111</u> WATER VOL. IN CASING (LITRES/GALLONS)	<u>1103</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 ☐ E B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA®				
SAMPLING DEVICE	☒ B C - BLADDER PUMP F - DIPPER BOTTLE ☐ E A - TEFLON D - PVC ☐ E B - STAINLESS STEEL E - POLYETHYLENE ☐ E C - POLYPROPYLENE ☒ F A - TEFLON D - POLYPROPYLENE F - SILICONE ☐ E B - TYGON E - POLYETHYLENE G - COMBINATION ☐ E C - ROPE X- _____ (SPECIFY)				
PURGING OTHER (SPECIFY) _____ SAMPLING OTHER (SPECIFY) _____ PURGING OTHER (SPECIFY) _____ SAMPLING OTHER (SPECIFY) _____ PURGING OTHER (SPECIFY) _____ SAMPLING OTHER (SPECIFY) _____ PURGING OTHER (SPECIFY) _____ SAMPLING OTHER (SPECIFY) _____					
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM					
FIELD MEASUREMENTS					
WELL ELEVATION	<u>1161353</u> (m/ft)		GROUNDWATER ELEVATION	<u>1160829</u> (m/ft)	
DEPTH TO WATER	<u>11524</u> (m/ft)		WELL DEPTH	<u>11221</u> (m/ft)	
pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
<u>7.5</u> (std)	<u>1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>150</u> (mV)	<u>1.5</u> (mg/L)	<u>15</u> (°C)
FIELD COMMENTS					
SAMPLE APPEARANCE <u>Good</u> ODOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>none</u> WEATHER CONDITIONS WIND SPEED <u>10-15</u> DIRECTION <u>SW</u> PRECIPITATION Y/N OUTLOOK <u>Y</u> SPECIFIC COMMENTS _____ _____ _____ _____ _____					
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CSM PROTOCOLS <u>10/6/23</u> Morgan Brown <u>Morgan Brown</u> DATE PRINT SIGNATURE					

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

PID@TOR = 0.0

PID@breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10/17/23
 Rel. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-9-12 Screen Length (ft): _____
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: -21
 Constructed Well Depth (ft): 15.43 Well Diameter, D (in): _____
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 1.2
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 7.93

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⁾
1010	80	8.00		7.18	15.7	3.373	117.5	2.09	15.90	0	
1015		8.03		7.18	15.8	3.496	113.2	1.52	13.97	0.15	
1020		8.01		7.18	15.7	3.602	103.0	0.98	9.00	0.25	
1025		8.00		7.19	15.7	3.633	92.3	0.88	7.72	0.3	
1030		8.00		7.19	15.7	3.654	81.1	0.79	5.50	0.4	
1035		8.00		7.20	15.7	3.710	57.5	0.70	3.80	0.5	
1040		8.01		7.20	15.6	3.797	36.0	0.67	4.20	0.6	
1045		8.00		7.18	15.6	3.850	18.5	0.64	4.97	0.7	
1050		8.00		7.17	15.6	3.876	7.8	0.64	5.01	0.8	
1055		8.01		7.17	15.6	3.905	7.0	0.63	5.09	0.9	

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. $V_s = \pi(D/2)^2(5 \times 12)(2.54)^3$
- (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: 6MCH Lockport Annual BCP Site Well Sampling

JOB# 56546-20

WELL# MW-9-12

WELL PURGING INFORMATION

11011723

PURGE DATE
(MM DD YY)

11011723

SAMPLE DATE
(MM DD YY)

11112

WATER VOL IN CASING
(LITRES/GALLONS)

1110

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

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

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

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

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

FIELD MEASUREMENTS

WELL ELEVATION 16114.912 (m/ft)

GROUNDWATER ELEVATION 16016.919 (m/ft)

DEPTH TO WATER 179.3 (m/ft)

WELL DEPTH 115.1 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>15.0</u> (°C)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>15.0</u> (°C)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>15.0</u> (°C)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>15.0</u> (°C)
<u>7.0</u> (std)	<u>0.1</u> (ntu)	<u>150</u> (um/cm) AT 25°C	<u>100</u> (mV)	<u>1.0</u> (mg/L)	<u>15.0</u> (°C)

FIELD COMMENTS

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

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

10/17/23
DATE

Morgan Brown
PRINT

[Signature]
SIGNATURE

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

PID@TOR = 0.0

PID@ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BLP Site Annual GW Sampling Date: 10/6/23
 Ref. No.: 56546.20 T.4 Personnel: M. Brown

Monitoring Well Data:

Well No.: TK-6 Screen Length (ft): _____
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 12
 Constructed Well Depth (ft): _____ Well Diameter, D (in): 4
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 0.4
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 10.95

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⁾
1500	80#	11.03		7.04	23.3	9.157	69.3	3.07	-0.25	0.0	
1505		11.06		7.00	22.2	9.048	80.4	2.59	-1.40	0.1	
1510		11.10		6.99	22.1	9.000	85.8	2.43	-1.60	0.2	
1515		11.13		7.00	21.9	8.971	91.8	2.41	-1.96	0.3	
1520		11.15		7.00	21.9	8.961	92.9	2.43	-1.99	0.4	

Notes:

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

WELL PURGING FIELD INFORMATION FORM				JOB# <u>56546-210</u>
SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				WELL# <u>TK-6</u>
WELL PURGING INFORMATION				
<u>1101015123</u> PURGE DATE (MM DD YY)	<u>1101015123</u> SAMPLE DATE (MM DD YY)	<u>94</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>107</u> ACTUAL VOLUME PURGED (LITRES/GALLONS)	
PURGING AND SAMPLING EQUIPMENT				
PURGING EQUIPMENT... DEDICATED ☒ Y ☐ N (CIRCLE ONE)		SAMPLING EQUIPMENT... DEDICATED ☒ Y ☐ N (CIRCLE ONE)		
PURGING DEVICE <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 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION <u>1621.69</u> (m/ft)	GROUNDWATER ELEVATION <u>1611.07</u> (m/ft)		WELL DEPTH <u>13.22</u> (m/ft)	
DEPTH TO WATER <u>110.95</u> (m/ft)				
pH <u>7.1</u>	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>7.1</u> (mg/L)
pH <u>7.1</u>	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>7.1</u> (mg/L)
pH <u>7.1</u>	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>7.1</u> (mg/L)
pH <u>7.1</u>	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>7.1</u> (mg/L)
pH <u>7.1</u>	TURBIDITY <u>0.1</u> (ntu)	CONDUCTIVITY <u>150</u> (µm/cm) AT 25°C	ORP <u>150</u> (mV)	DO <u>7.1</u> (mg/L)
FIELD COMMENTS				
SAMPLE APPEARANCE <u>Good</u> ODOOR <u>none</u> COLOR <u>clear</u> TURBIDITY <u>none</u> WEATHER CONDITIONS WIND SPEED <u>10-10</u> DIRECTION <u>SSEW</u> PRECIPITATION Y/N OUTLOOK <u>N</u> SPECIFIC COMMENTS _____				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CM PROTOCOLS <u>10/5/23</u> <u>Morgan Brown</u> <u>Morgan Brown</u> DATE PRINT SIGNATURE				

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

PID@TOR = 33.5

PID@ breathing space = 0.6

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10/16/23
 Ref. No.: 56546.20 T.4 Personnel: M. Brown

Monitoring Well Data:

Well No.: BLDG-10-MW-1 Screen Length (ft): 5
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 13
 Constructed Well Depth (ft): 16.0 Well Diameter, D (in): 2
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL)⁽²⁾: 1.5
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 6.16

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V _p (mL)	No. of Well Screen Volumes Purged ⁽⁴⁾
1610	25	6.52		6.77	20.1	2.659	-10.2	1.68	-2.74	0	
1615		6.60		6.76	19.8	2.667	-12.6	1.22	-2.67	0.1	
1620		6.67		6.76	20.2	2.662	-17.3	0.86	-2.90	0.2	
1625		6.72		6.76	20.4	2.651	-20.2	0.71	-2.99	0.25	
1630		6.81		6.76	20.5	2.639	-23.8	0.62	-3.01	0.3	
1635		6.83		6.76	20.6	2.638	-25.5	0.57	-3.02	0.4	
1640		6.85		6.76	20.6	2.634	-26.6	0.54	-3.01	0.5	

Notes:

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

WELL PURGING FIELD INFORMATION FORM

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

JOB# 56546-20

WELL# BLDG-10

MW-1

PURGE DATE (MM DD YY) 10/16/23 SAMPLE DATE (MM DD YY) 10/16/23 WATER VOL IN CASING (LITRES/GALLONS) 11.5 ACTUAL VOLUME PURGED (LITRES/GALLONS) 10.7

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 - WATERRA® X- SAMPLING OTHER (SPECIFY) _____

PURGING DEVICE E C - SLADDER PUMP F - DIPPER BOTTLE X- SAMPLING OTHER (SPECIFY) _____

PURGING DEVICE E A - TEFLON D - PVC X- PURGING OTHER (SPECIFY) _____

SAMPLING DEVICE E B - STAINLESS STEEL E - POLYETHYLENE X- SAMPLING OTHER (SPECIFY) _____

PURGING 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 C - 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 1615.05 (m/ft) GROUNDWATER ELEVATION 1608.89 (m/ft)

DEPTH TO WATER 6.16 (m/ft) WELL DEPTH 11.53 (m/ft)

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

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

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

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

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

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOOR solvent COLOR clear TURBIDITY none

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

SPECIFIC COMMENTS _____

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

DATE 10/16/23 PRINT Morgan Brown SIGNATURE [Signature]

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

PID@TOR = 3.2

PID@ breathing space = 0.0

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10/13/23
 Ref. No.: 56546.20 T. 4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-10-2 Screen Length (ft): 9.8 - 16.8 = 7
 Measurement Point: TOR Depth to Pump Intake (ft)⁽¹⁾: 1.4
 Constructed Well Depth (ft): 16.80 Well Diameter, D (in): 2
 Measured Well Depth (ft): Well Screen Volume, V_s (mL)⁽²⁾: 2.0
 Depth of Sediment (ft): Initial Depth to Water (ft): 3.56

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⁾
0855		4.01		7.14	18.0	12.807	-71.0	2.01	-1.02	0	
0900		4.64		7.32	17.9	12.619	-111.8	1.01	-1.15	0.1	
0915		4.87		7.37	18.2	11.002	-120.8	0.68	1.46	0.3	
0920		4.90		7.34	18.3	10.437	-109.7	0.68	4.85	0.4	
0925		4.91		7.32	18.3	10.007	-98.1	0.68	3.59	0.5	
0930		4.93		7.31	18.2	9.797	-92.3	0.68	3.65	0.6	
0935		4.95		7.29	18.0	9.473	-86.0	0.68	3.67	0.7	
0940		4.96		7.28	17.8	9.929	-84.8	0.68	3.56	0.8	

Notes:

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

WELL PURGING FIELD INFORMATION FORM SITE/PROJECT NAME: <u>EMCH Lockport Annual BCP Site GW Sampling</u>				JOB# <u>56546-20</u> WELL# <u>MW-10-2</u>
WELL PURGING INFORMATION				
<u>1101131213</u> PURGE DATE (MM DD YY)	<u>1101131213</u> SAMPLE DATE (MM DD YY)	<u>111710</u> WATER VOL IN CASING (LITRES/GALLONS)	<u>111111</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
SAMPLING DEVICE	☒ B	B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRAID
		C - SLADDER PUMP	F - DIPPER BOTTLE	
PURGING DEVICE	☒ E	A - TEFLON	D - PVC	
SAMPLING DEVICE	☒ E	B - STAINLESS STEEL	E - POLYETHYLENE	
		C - POLYPROPYLENE		
PURGING DEVICE	☒ E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE
SAMPLING DEVICE	☒ E	B - TYGON	E - POLYETHYLENE	G - COMBINATION
		C - ROPE		TEFLON/POLYPROPYLENE
FILTERING DEVICES 0.45 ☐ A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM				
FIELD MEASUREMENTS				
WELL ELEVATION	<u>11611216</u>	(m/ft)	GROUNDWATER ELEVATION	<u>116071710</u> (m/ft)
DEPTH TO WATER	<u>1131516</u>	(m/ft)	WELL DEPTH	<u>11716109</u> (m/ft)
pH	(std)	TURBIDITY	(ntu)	CONDUCTIVITY
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
				(µm/cm) AT 25°C
FIELD COMMENTS				
SAMPLE APPEARANCE	<u>Good</u>		ODOR	<u>solvent</u>
WEATHER CONDITIONS	WIND SPEED <u>5-10</u>	DIRECTION <u>WSW</u>	PRECIPITATION Y/N	<u>N</u>
SPECIFIC COMMENTS				
<u>MS/MSD : MW-10-2-101323-MS/MSD</u>				
I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CMI PROTOCOLS <u>10/13/23</u> <u>Morgan Brown</u> <u>Morgan Brown</u> DATE PRINT SIGNATURE				

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

$PID@TOR = 0.1$ $PID@ \text{breathing space} = 0.0$

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

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH Lockport BCP Site Annual GW Sampling Date: 10/11/23
Ref. No.: 56546.20 T.4 Personnel: M. Brown

Monitoring Well Data:

Well No.: MW-10-3

Measurement Point: TOR

Constructed Well Depth (ft): 15.80

Measured Well Depth (ft): _____

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⁾: 2.0
 Initial Depth to Water (ft): 3.17

[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 .

WELL PURGING FIELD INFORMATION FORM

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

JOB# 56546-20

WELL# MW-10-3

WELL PURGING INFORMATION

1101123

PURGE DATE
(MM DD YY)

1101123

SAMPLE DATE
(MM DD YY)

1120

WATER VOL IN CASING
(LITRES/GALLONS)

1105

ACTUAL VOLUME PURGED
(LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

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

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

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

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

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

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

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

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

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

FIELD MEASUREMENTS

WELL ELEVATION 1610.40 (m/ft)

GROUNDWATER ELEVATION 1604.06 (m/ft)

DEPTH TO WATER 3.17 (m/ft)

WELL DEPTH 115.40 (m/ft)

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

FIELD COMMENTS

SAMPLE APPEARANCE Good ODOR sulfur COLOR cloudy TURBIDITY cloudy
WEATHER CONDITIONS WIND SPEED 5-15 DIRECTION WSW PRECIPITATION Y/N OUTLOOK N
SPECIFIC COMMENTS

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

10/11/23
DATE

Morgan Brown
PRINT

Morgan Brown
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

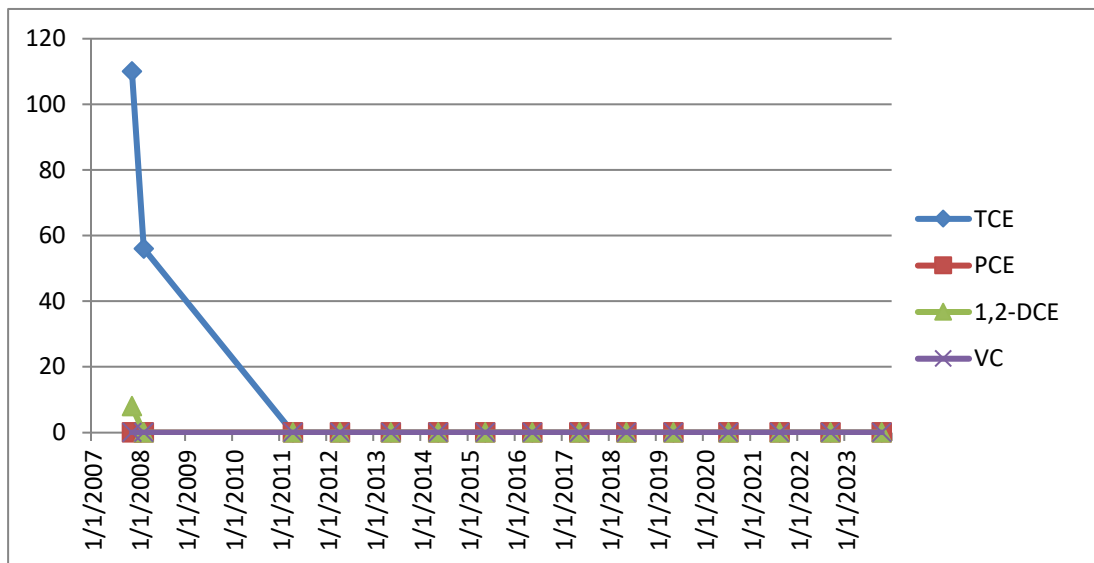
Date	TCE	PCE	1,2-DCE	VC
11/30/2007	110	<	8	<
2/20/2008	56	<	<	<
4/27/2011	<	<	<	<
4/27/2012	<	<	<	<
5/6/2013	<	<	<	<
5/27/2014	<	<	<	<
5/11/2015	<	<	<	<
5/10/2016	<	<	<	<
5/4/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	<	<	<	<
7/2/2020	<	<	<	<
8/23/2021	<	<	<	<
9/22/2022	<	<	<	<
10/11/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

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

< = non-detect laboratory result



MW-7-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

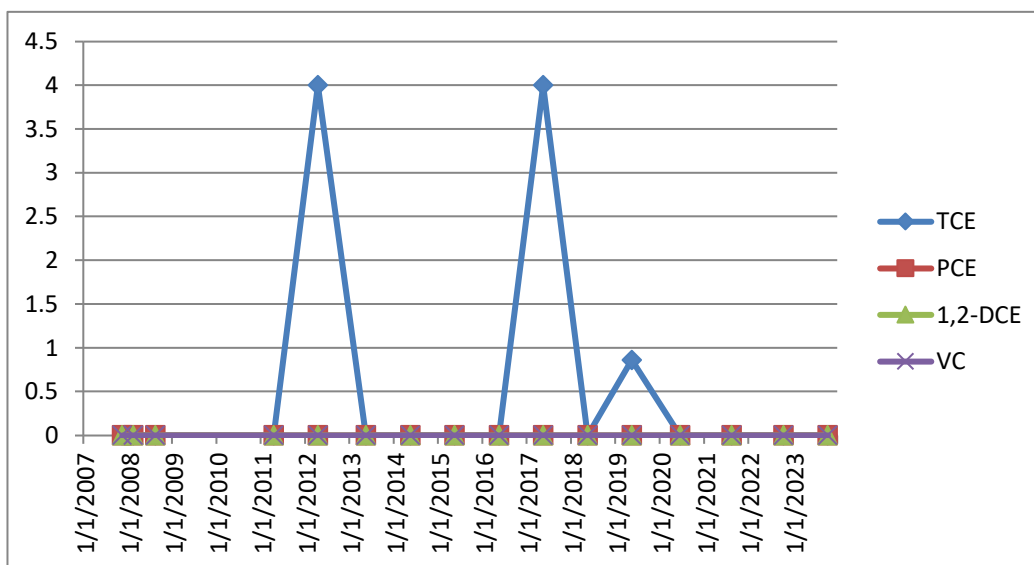
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
8/8/2008	<	<	<	<
4/27/2011	<	<	<	<
4/26/2012	4	<	<	<
5/6/2013	<	<	<	<
5/23/2014	<	<	<	<
5/12/2015	<	<	<	<
5/10/2016	<	<	<	<
5/10/2017	4	<	<	<
5/17/2018	<	<	<	<
5/23/2019	0.86	<	<	<
6/30/2020	<	<	<	<
8/23/2021	<	<	<	<
10/4/2022	<	<	<	<
10/17/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

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

< = non-detect laboratory result



MW-7-3 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

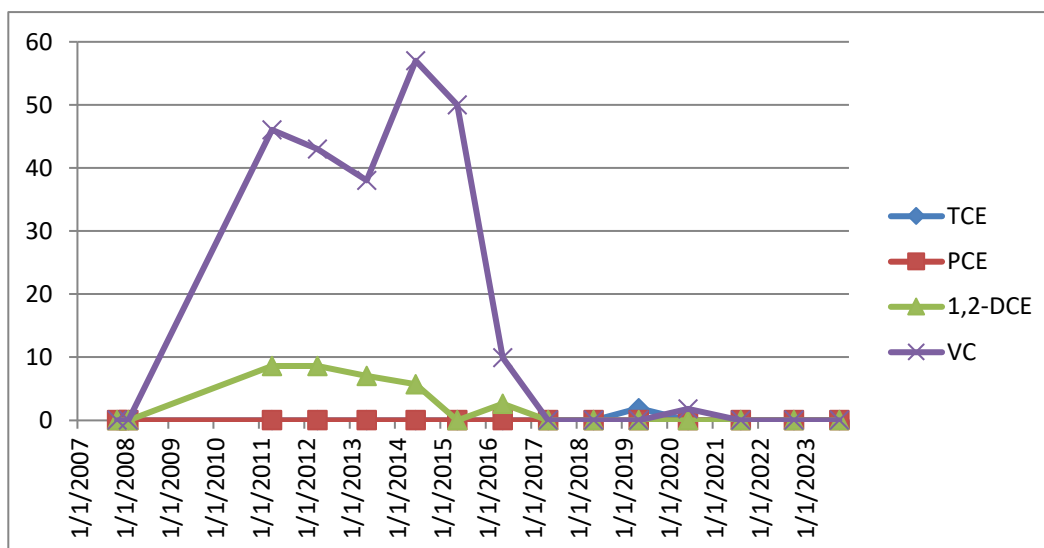
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	<	<	<	<
2/20/2008	<	<	<	<
4/27/2011	<	<	8.6	46
4/27/2012	<	<	8.6	43
5/6/2013	<	<	7	38
6/3/2014	<	<	5.7	57
5/11/2015	<	<	<	50
5/10/2016	<	<	2.6	9.9
5/3/2017	<	<	<	<
5/17/2018	<	<	<	<
5/24/2019	1.9	<	<	<
6/30/2020	<	<	<	1.8
8/23/2021	<	<	<	<
10/5/2022	<	<	<	<
10/11/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

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

< = non-detect laboratory result



MW-7-4 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

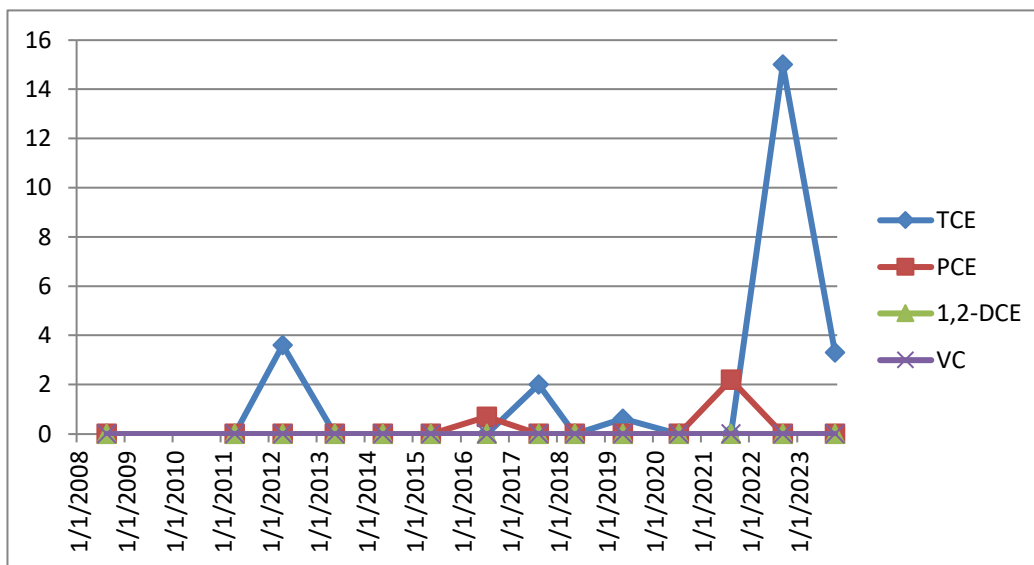
Date	TCE	PCE	1,2-DCE	VC
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/27/2012	3.6	<	<	<
5/7/2013	<	<	<	<
5/23/2014	<	<	<	<
5/11/2015	<	<	<	<
7/29/2016	<	0.69	<	<
8/15/2017	2	<	<	<
5/17/2018	<	<	<	<
5/24/2019	0.61	<	<	<
7/1/2020	<	<	<	<
8/24/2021	<	2.2	<	<
9/22/2022	15	<	<	<
10/18/2023	3.3	<	<	<

Notes:

Results are provided in parts per billion (ppb)

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

< = non-detect laboratory result



MW-7-5 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

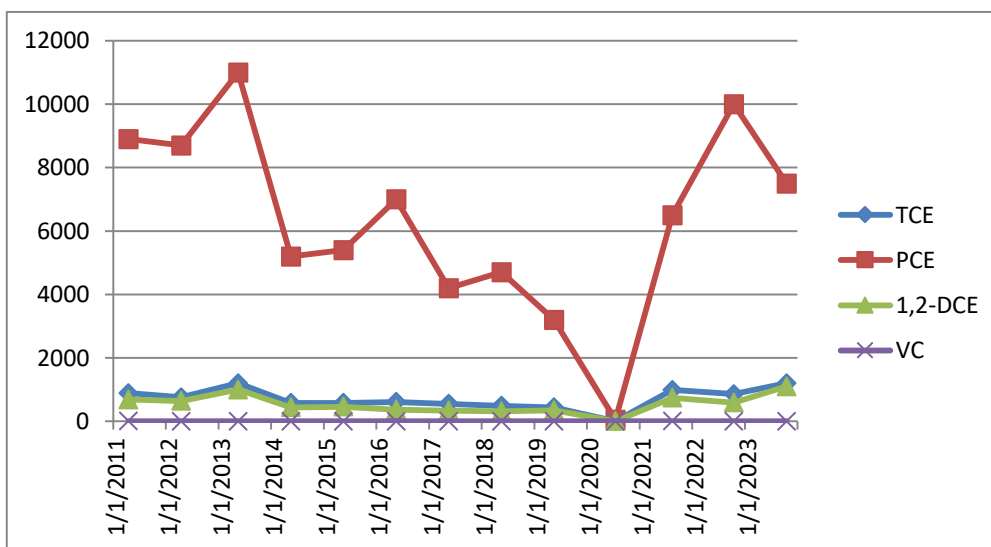
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	890	8900	687	5.8
4/30/2012	760	8700	640	<
5/7/2013	1200	11000	1000	<
5/27/2014	580	5200	440	<
5/18/2015	580	5400	460	<
5/11/2016	610	7000	370	<
5/9/2017	550	4200	340	<
5/30/2018	490	4700	310	<
5/28/2019	440	3200	350	<
7/9/2020	7.4	48	5.6	<
8/23/2021	990	6500	742	5.4
10/5/2022	860	10000	590	<
10/19/2023	1200	7500	1100	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-7-5 Groundwater Data

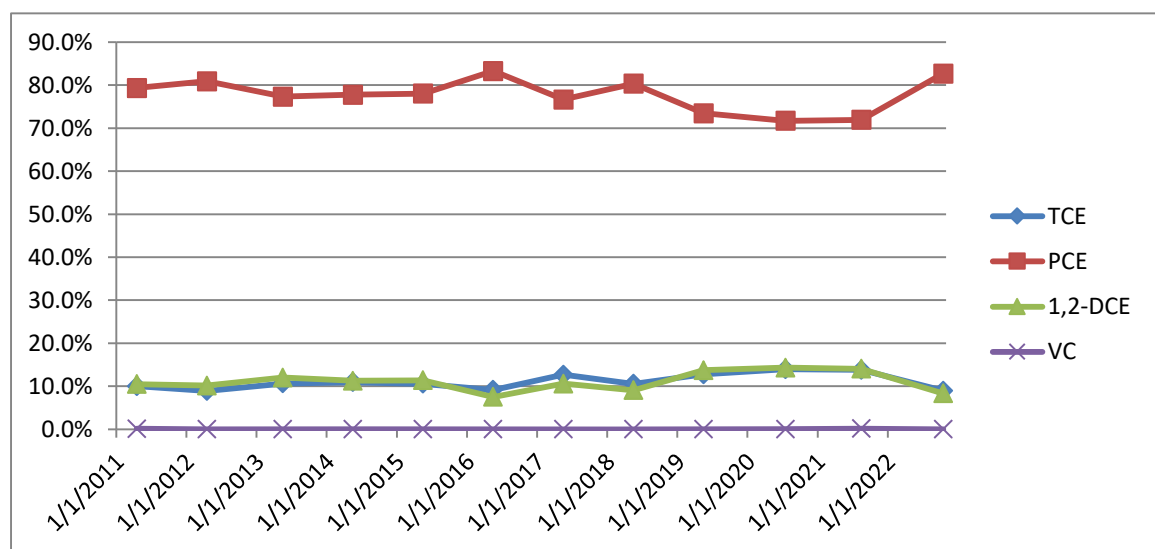
GM Components Holdings, LLC
Lockport, New York

mmol/L					%			
TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
0.006773212	0.053669	0.007089783	0.0000928	0.067625	10.0%	79.4%	10.5%	0.1%
0.005783866	0.052463	0.006604747	0	0.064852	8.9%	80.9%	10.2%	0.0%
0.00913242	0.066333	0.010319917	0	0.085785	10.6%	77.3%	12.0%	0.0%
0.004414003	0.031357	0.004540764	0	0.040312	10.9%	77.8%	11.3%	0.0%
0.004414003	0.032563	0.004747162	0	0.041725	10.6%	78.0%	11.4%	0.0%
0.004642314	0.042212	0.003818369	0	0.050673	9.2%	83.3%	7.5%	0.0%
0.004185693	0.025327	0.003508772	0	0.033022	12.7%	76.7%	10.6%	0.0%
0.003729072	0.028342	0.003199174	0	0.035271	10.6%	80.4%	9.1%	0.0%
0.003348554	0.019297	0.003611971	0	0.026257	12.8%	73.5%	13.8%	0.0%
5.63166E-05	0.000289	5.77915E-05	0	0.000404	14.0%	71.7%	14.3%	0.0%
0.007534247	0.039197	0.007657379	0.0000864	0.054475	13.8%	72.0%	14.1%	0.2%
0.006544901	0.060303	0.006088751	0	0.072936	9.0%	82.7%	8.3%	0.0%
0.00913242	0.045227	0.011351909	0	0.065711	13.9%	68.8%	17.3%	0.0%

Notes:

Results are provided in mmol/L and molar fractions

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



MW-7-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

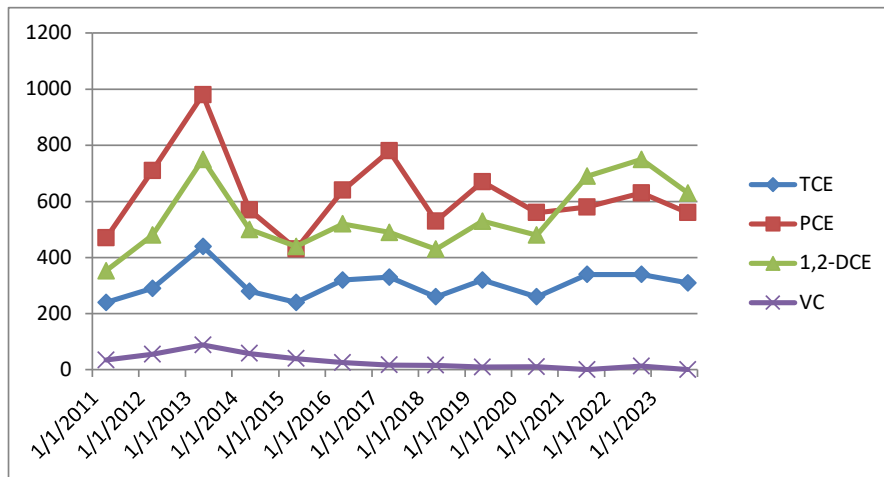
Date	TCE	PCE	1,2-DCE	VC
4/27/2011	240	470	353	35
4/30/2012	290	710	480	55
5/7/2013	440	980	750	88
5/28/2014	280	570	500	58
5/15/2015	240	430	440	40
5/11/2016	320	640	520	26
5/4/2017	330	780	490	17
5/30/2018	260	530	430	16
5/28/2019	320	670	530	10
7/7/2020	260	560	480	11
8/24/2021	340	580	690	<
10/6/2022	340	630	750	13
10/10/2023	310	560	630	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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

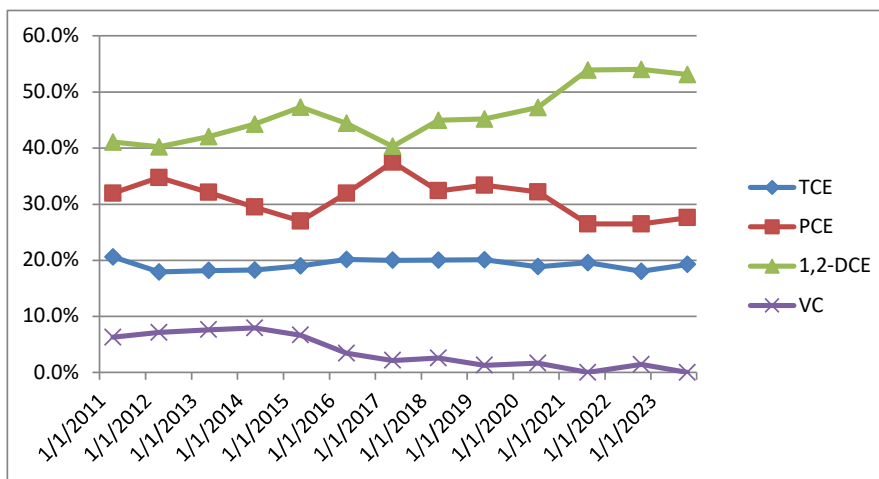


MW-7-6 Groundwater Data									
GM Components Holdings, LLC Lockport, New York									
mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/27/2011	0.001826	0.002834	0.003643	0.00056	0.008864	20.6%	32.0%	41.1%	6.3%
4/30/2012	0.002207	0.004281	0.004954	0.00088	0.012322	17.9%	34.7%	40.2%	7.1%
5/7/2013	0.003349	0.00591	0.00774	0.001408	0.018406	18.2%	32.1%	42.1%	7.6%
5/28/2014	0.002131	0.003437	0.00516	0.000928	0.011656	18.3%	29.5%	44.3%	8.0%
5/15/2015	0.001826	0.002593	0.004541	0.00064	0.0096	19.0%	27.0%	47.3%	6.7%
5/11/2016	0.002435	0.003859	0.005366	0.000416	0.012077	20.2%	32.0%	44.4%	3.4%
5/4/2017	0.002511	0.004704	0.005057	0.000272	0.012544	20.0%	37.5%	40.3%	2.2%
5/30/2018	0.001979	0.003196	0.004438	0.000256	0.009868	20.1%	32.4%	45.0%	2.6%
5/28/2019	0.002435	0.00404	0.00547	0.00016	0.012105	20.1%	33.4%	45.2%	1.3%
7/7/2020	0.001979	0.003377	0.004954	0.000176	0.010485	18.9%	32.2%	47.2%	1.7%
8/24/2021	0.002588	0.003498	0.007121	0	0.013206	19.6%	26.5%	53.9%	0.0%
10/6/2022	0.002588	0.003799	0.00774	0.000208	0.014335	18.1%	26.5%	54.0%	1.5%
10/7/2022	0.002359	0.003377	0.006502	0	0.012238	19.3%	27.6%	53.1%	0.0%

Notes:

Results are provided in mmol/L and molar fractions

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



MW-7-7 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC	Ethene
4/28/2011	<	26,000	<	<	
5/1/2012	2,600	120,000	6,000	960	
5/8/2013	2,300	120,000	4,400	<	
5/29/2014	3,400	76,000	8,700	1,800	
5/12/2015	3,900	70,000	13,000	3,500	290
5/12/2016	7,500	84,000	26,000	4,900	320
5/9/2017	13,000	51,000	61,000	4,900	110
5/18/2018	24,000	23,000	26,000	8,100	380
5/28/2019	19,000	54,000	41,000	6,200	440
7/7/2020	6,800	68,000	54,000	9,600	1300
8/27/2021	5,300	67,000	39,000	8,400	610
10/4/2022	17,000	68,000	36,000	7,200	590
10/13/2023	20000	100000	36,000	6000	420

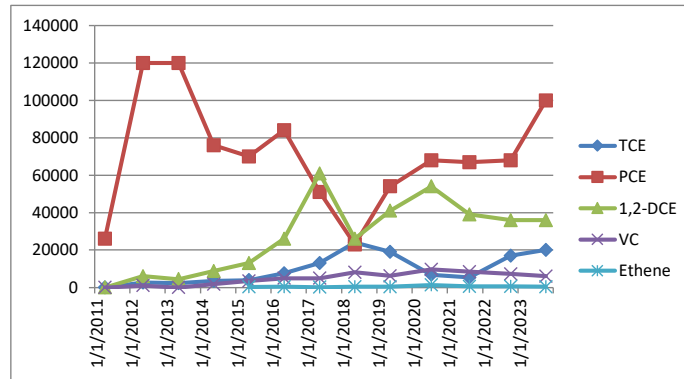
Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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

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

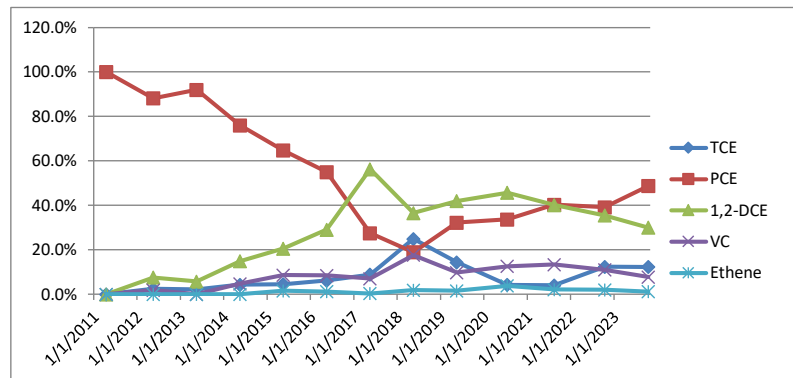


MW-7-7 Groundwater Data											
GM Components Holdings, LLC											
Lockport, New York											
mmol/L						%					
Date	TCE	PCE	1,2-DCE	VC	Ethene	Total	TCE	PCE	1,2-DCE	VC	Ethene
4/28/2011	0	0.156787	0	0		0.156787	0.0%	100.0%	0.0%	0.0%	0.0%
5/1/2012	0.019787	0.723633	0.06192	0.01536		0.820699	2.4%	88.2%	7.5%	1.9%	0.0%
5/8/2013	0.017504	0.723633	0.045408	0		0.786544	2.2%	92.0%	5.8%	0.0%	0.0%
5/29/2014	0.025875	0.458301	0.089783	0.0288		0.602759	4.3%	76.0%	14.9%	4.8%	0.0%
5/12/2015	0.02968	0.422119	0.134159	0.056	0.010339	0.652297	4.6%	64.7%	20.6%	8.6%	1.6%
5/12/2016	0.057078	0.506543	0.268318	0.0784	0.011408	0.921747	6.2%	55.0%	29.1%	8.5%	1.2%
5/9/2017	0.098935	0.307544	0.629515	0.0784	0.003922	1.118315	8.8%	27.5%	56.3%	7.0%	0.4%
5/18/2018	0.182648	0.138696	0.268318	0.1296	0.013547	0.73281	24.9%	18.9%	36.6%	17.7%	1.8%
5/28/2019	0.144597	0.325635	0.423117	0.0992	0.015686	1.008234	14.3%	32.3%	42.0%	9.8%	1.6%
7/7/2020	0.05175	0.410058	0.557276	0.1536	0.046346	1.21903	4.2%	33.6%	45.7%	12.6%	3.8%
8/27/2021	0.040335	0.404028	0.402477	0.1344	0.021747	1.002987	4.0%	40.3%	40.1%	13.4%	2.2%
10/4/2022	0.129376	0.410058	0.371517	0.1152	0.021034	1.047185	12.4%	39.2%	35.5%	11.0%	2.0%
10/5/2022	0.152207	0.603027	0.371517	0.096	0.014973	1.237724	12.3%	48.7%	30.0%	7.8%	1.2%

Notes:

Results are provided in mmol/L and molar fractions

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



MW-7-8 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

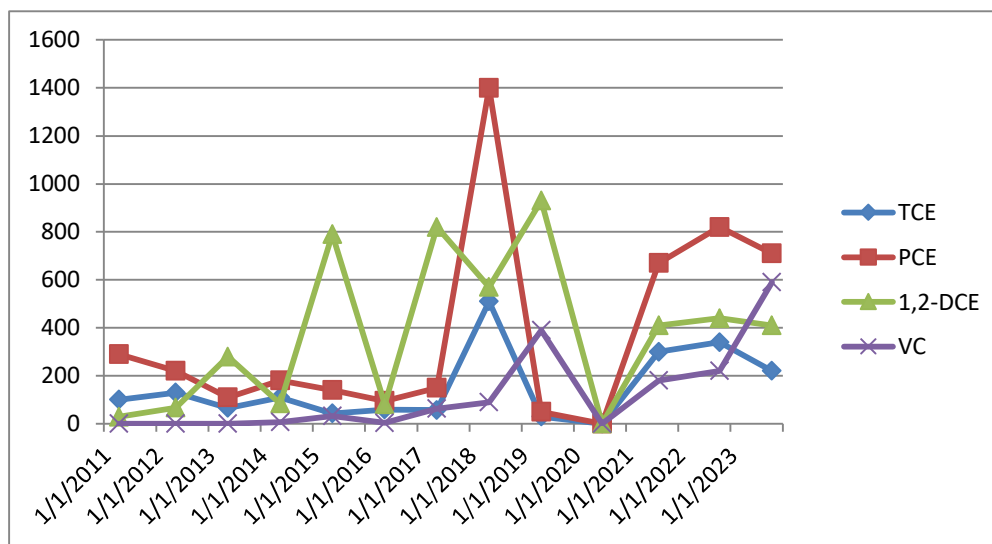
Date	TCE	PCE	1,2-DCE	VC
4/28/2011	100	290	29	<
5/2/2012	130	220	67	<
5/8/2013	66	110	280	<
5/29/2014	110	180	84	7.1
5/18/2015	43	140	790	32
5/13/2016	59	95	81	3.6
5/9/2017	57	150	820	63
5/30/2018	510	1400	570	90
5/31/2019	30	50	930	390
7/9/2020	<	<	<	<
8/27/2021	300	670	410	180
10/7/2022	340	820	440	220
10/17/2023	220	710	410	590

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-7-8 Groundwater Data

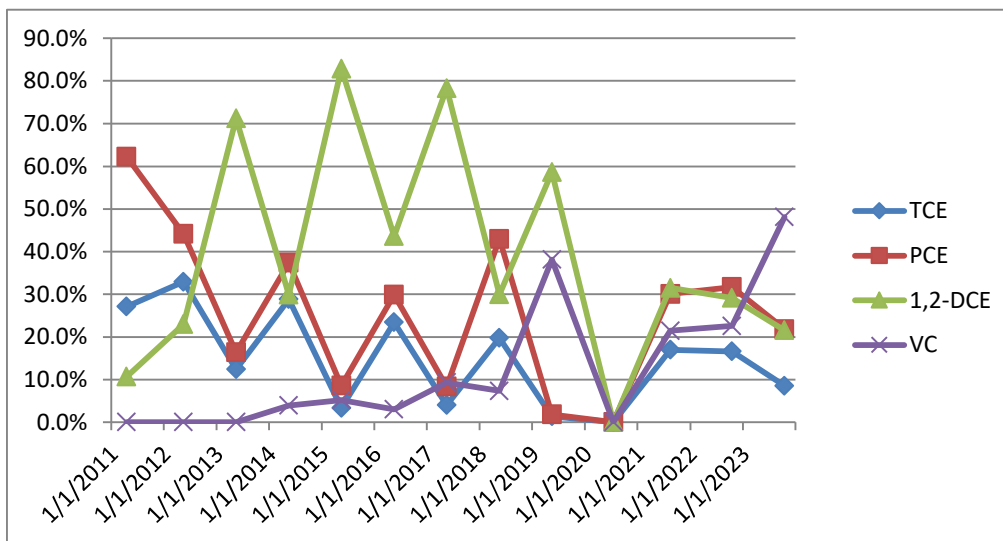
GM Components Holdings, LLC
Lockport, New York

mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/28/2011	0.000761	0.001749	0.000299	0	0.002809	27.1%	62.3%	10.7%	0.0%
5/2/2012	0.000989	0.001327	0.000691	0	0.003007	32.9%	44.1%	23.0%	0.0%
5/8/2013	0.000502	0.000663	0.00289	0	0.004055	12.4%	16.4%	71.3%	0.0%
5/29/2014	0.000837	0.001085	0.000867	0.0001136	0.002903	28.8%	37.4%	29.9%	3.9%
5/18/2015	0.000327	0.000844	0.008153	0.000512	0.009836	3.3%	8.6%	82.9%	5.2%
5/13/2016	0.000449	0.000573	0.000836	0.0000576	0.001915	23.4%	29.9%	43.6%	3.0%
5/9/2017	0.000434	0.000905	0.008462	0.001008	0.010809	4.0%	8.4%	78.3%	9.3%
5/30/2018	0.003881	0.008442	0.005882	0.00144	0.019646	19.8%	43.0%	29.9%	7.3%
5/31/2019	0.000228	0.000302	0.009598	0.00624	0.016367	1.4%	1.8%	58.6%	38.1%
7/9/2020	0	0	0	0	0	0.0%	0.0%	0.0%	0.0%
8/27/2021	0.002283	0.00404	0.004231	0.00288	0.013435	17.0%	30.1%	31.5%	21.4%
10/7/2022	0.002588	0.004945	0.004541	0.00352	0.015593	16.6%	31.7%	29.1%	22.6%
10/17/2022	0.001674	0.004281	0.004231	0.00944	0.019627	8.5%	21.8%	21.6%	48.1%

Notes:

Results are provided in mmol/L and molar fractions

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



MW-7-A-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

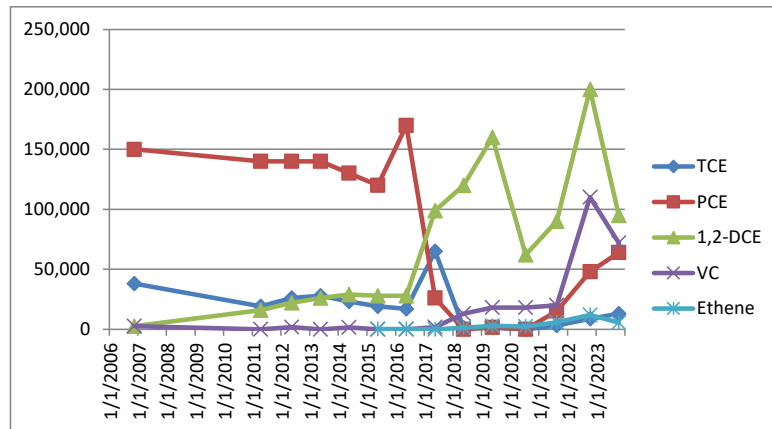
Date	TCE	PCE	1,2-DCE	VC	Ethene
11/10/2006	38,000	150,000	2,600	2,500	
4/28/2011	19,000	140,000	16,000	<	
5/1/2012	26,000	140,000	22,000	1,800	
5/8/2013	28,000	140,000	26,000	<	
5/30/2014	23,000	130,000	29,000	1,500	
5/15/2015	19,000	120,000	28,000	<	79
5/12/2016	17,000	170,000	28,000	<	45
5/9/2017	65,000	26,000	99,000	1,800	<30
5/18/2018	1,100	<	120,000	13,000	1,100
5/28/2019	1,500	1,400	160,000	18,000	2,800
7/7/2020	<	<	62,000	18,000	2,300
8/27/2021	3,200	15,000	90,000	20,000	5,700
10/5/2022	8,600	48,000	200,000	110,000	12,000
10/19/2023	13,000	64,000	95,000	72,000	5,500

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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

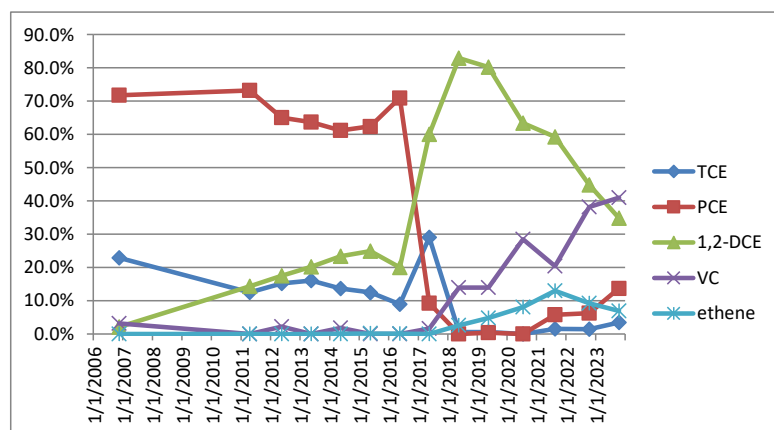


MW-7-A-6 Groundwater Data											
GM Components Holdings, LLC Lockport, New York											
mmol/L							%				
Date	TCE	PCE	1,2-DCE	VC	ethene	total	TCE	PCE	1,2-DCE	VC	ethene
11/10/2006	0.289193	0.904541	0.026832	0.04		1.260566	22.9%	71.8%	2.1%	3.2%	0.0%
4/28/2011	0.144597	0.844238	0.165119	0		1.153953	12.5%	73.2%	14.3%	0.0%	0.0%
5/1/2012	0.197869	0.844238	0.227038	0.0288		1.297945	15.2%	65.0%	17.5%	2.2%	0.0%
5/8/2013	0.21309	0.844238	0.268318	0		1.325646	16.1%	63.7%	20.2%	0.0%	0.0%
5/30/2014	0.175038	0.783935	0.299278	0.024	0	1.282251	13.7%	61.1%	23.3%	1.9%	0.0%
5/15/2015	0.144597	0.723633	0.288958	0	0.002816	1.160003	12.5%	62.4%	24.9%	0.0%	0.2%
5/12/2016	0.129376	1.025146	0.288958	0	0.001604	1.445084	9.0%	70.9%	20.0%	0.0%	0.1%
5/9/2017	0.494673	0.156787	1.021672	0.0288	0	1.701932	29.1%	9.2%	60.0%	1.7%	0.0%
5/18/2018	0.008371	0	1.23839	0.208	0.039216	1.493977	0.6%	0.0%	82.9%	13.9%	2.6%
5/28/2019	0.011416	0.008442	1.651187	0.288	0.099822	2.058866	0.6%	0.4%	80.2%	14.0%	4.8%
7/7/2020	0	0	0.639835	0.288	0.081996	1.009831	0.0%	0.0%	63.4%	28.5%	8.1%
8/27/2021	0.024353	0.090454	0.928793	0.32	0.203209	1.566808	1.6%	5.8%	59.3%	20.4%	13.0%
10/5/2022	0.065449	0.289453	2.063983	1.76	0.427807	4.606693	1.4%	6.3%	44.8%	38.2%	9.3%
10/19/2023	0.098935	0.385937	0.980392	1.152	0.196078	2.813343	3.5%	13.7%	34.8%	40.9%	7.0%

Notes:

Results are provided in mmol/L and molar fractions

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



MW-7-C-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

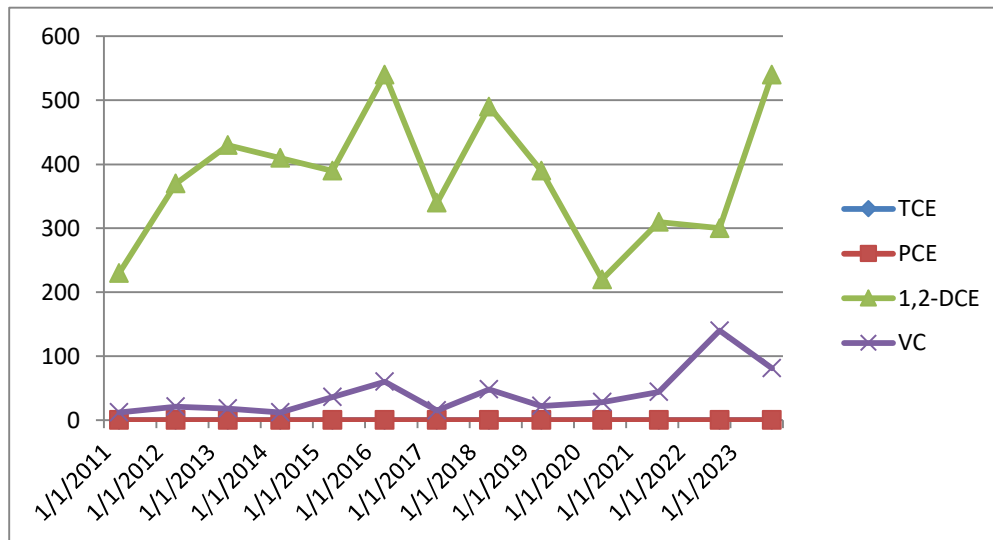
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	230	12
5/3/2012	<	<	370	21
5/7/2013	<	<	430	18
5/28/2014	<	<	410	12
5/15/2015	<	<	390	36
5/11/2016	<	<	540	60
5/4/2017	<	<	340	15
5/30/2018	<	<	490	48
5/28/2019	<	<	390	22
7/9/2020	<	<	220	28
8/25/2021	<	<	310	44
10/4/2022	<	<	300	140
10/10/2023	<	<	540	81

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-7-C-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

mmol/L						%			
Date	TCE	PCE	1,2-DCE	VC	total	TCE	PCE	1,2-DCE	VC
4/29/2011	0	0	0.002374	0.000192	0.002566	0.0%	0.0%	92.5%	7.5%
5/3/2012	0	0	0.003818	0.000336	0.004154	0.0%	0.0%	91.9%	8.1%
5/7/2013	0	0	0.004438	0.000288	0.004726	0.0%	0.0%	93.9%	6.1%
5/28/2014	0	0	0.004231	0.000192	0.004423	0.0%	0.0%	95.7%	4.3%
5/15/2015	0	0	0.004025	0.000576	0.004601	0.0%	0.0%	87.5%	12.5%
5/11/2016	0	0	0.005573	0.00096	0.006533	0.0%	0.0%	85.3%	14.7%
5/4/2017	0	0	0.003509	0.00024	0.003749	0.0%	0.0%	93.6%	6.4%
5/30/2018	0	0	0.005057	0.000768	0.005825	0.0%	0.0%	86.8%	13.2%
5/28/2019	0	0	0.004025	0.000352	0.004377	0.0%	0.0%	92.0%	8.0%
7/9/2020	0	0	0.00227	0.000448	0.002718	0.0%	0.0%	83.5%	16.5%
8/25/2021	0	0	0.003199	0.000704	0.003903	0.0%	0.0%	82.0%	18.0%
10/4/2022	0	0	0.003096	0.00224	0.005336	0.0%	0.0%	58.0%	42.0%
10/10/2023	0	0	0.005573	0.001296	0.006869		0.0%	81.1%	18.9%

Notes:

Results are provided in mmol/L and molar fractions

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

MW-7-P-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

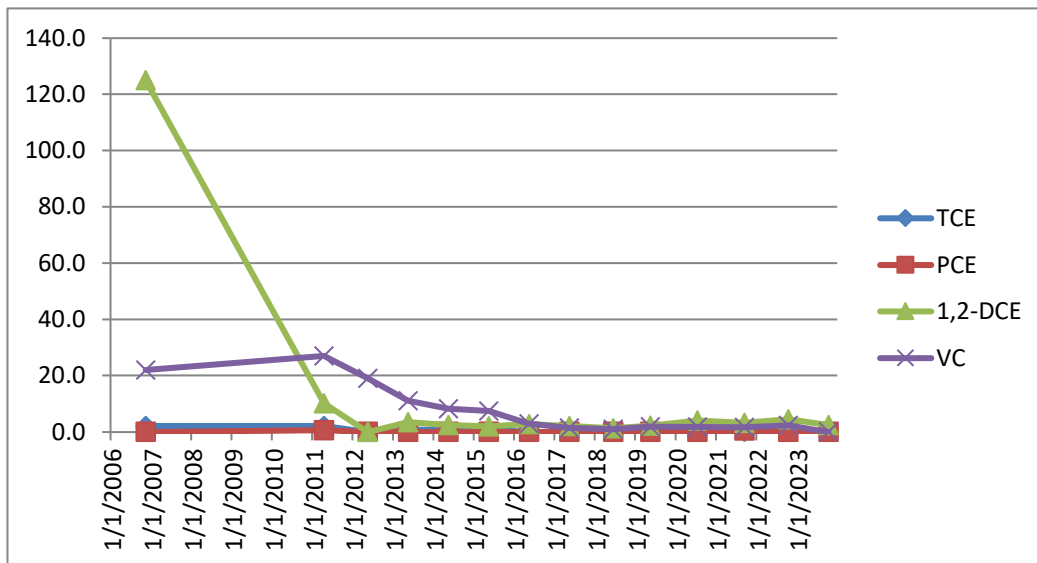
Date	TCE	PCE	1,2-DCE	VC
11/14/2006	2.1	<	125	22
4/29/2011	2	0.6	10	27
5/3/2012	<	<	<	19
5/7/2013	0.74	<	3.4	11
5/16/2014	0.78	<	2.4	8.2
5/26/2015	0.93	<	2	7.4
5/13/2016	<	<	2.7	2.9
5/5/2017	<	<	2.1	1.4
6/1/2018	<	<	1.3	0.91
5/31/2019	<	<	2.2	1.8
7/13/2020	<	<	4	1.7
9/1/2021	<	0.46	3.2	1.6
10/6/2022	<	<	4.4	2.3
10/18/2023	<	<	2.4	<

Notes:

Results are provided in parts per billion (ppb)

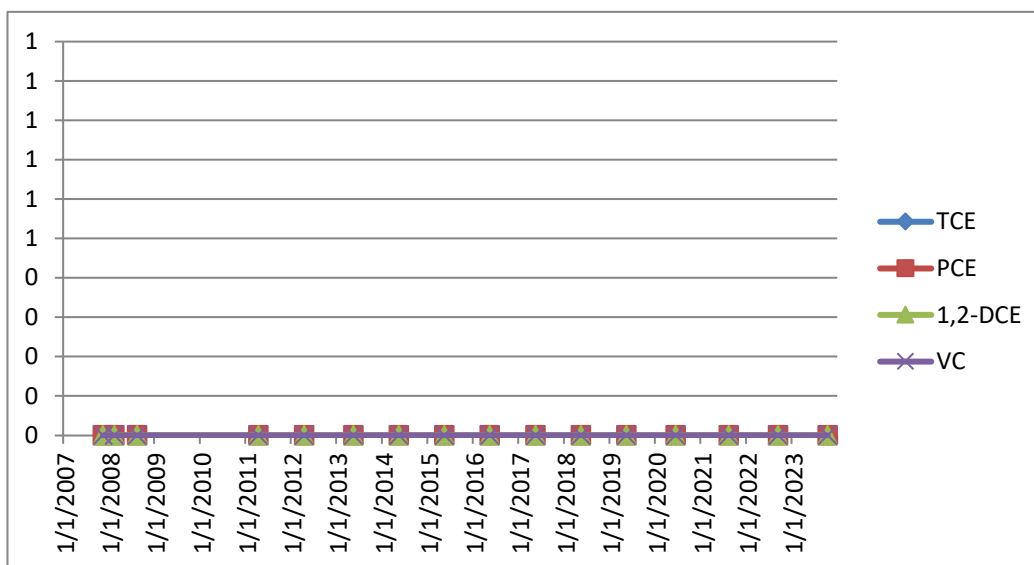
< = non-detect laboratory result

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



GM Components Holdings, LLC
Lockport, New York

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



MW-6-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

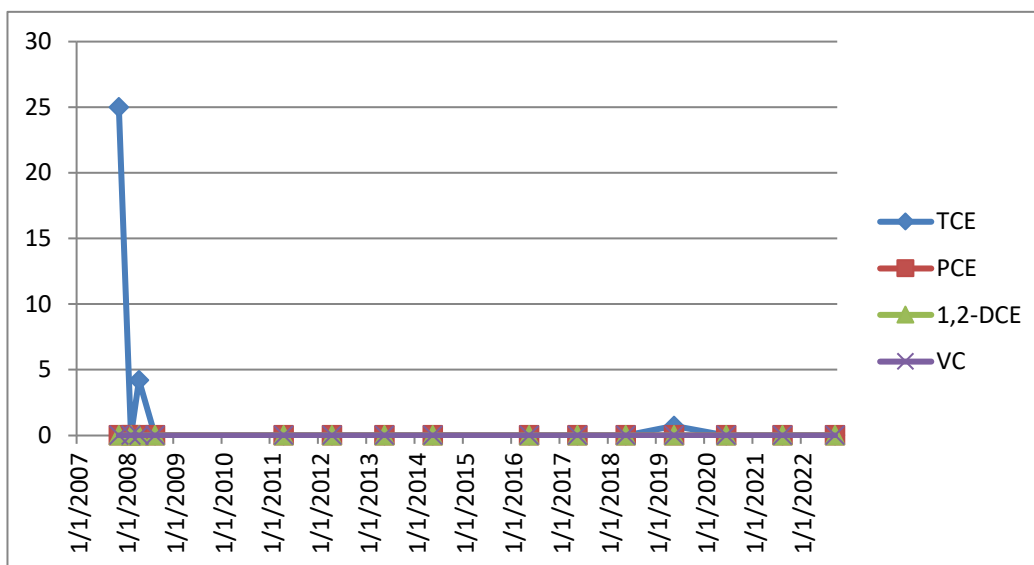
Date	TCE	PCE	1,2-DCE	VC
11/29/2007	25	<	<	<
2/20/2008	<	<	<	<
4/15/2008	4.2	<	<	<
8/14/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/14/2014	<	<	<	<
5/9/2016	<	<	<	<
5/3/2017	<	<	<	<
5/16/2018	<	<	<	<
5/21/2019	0.7	<	<	<
6/26/2020	<	<	<	<
8/24/2021	<	<	<	<
9/29/2022	<	<	<	<
10/16/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-6-F-8 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

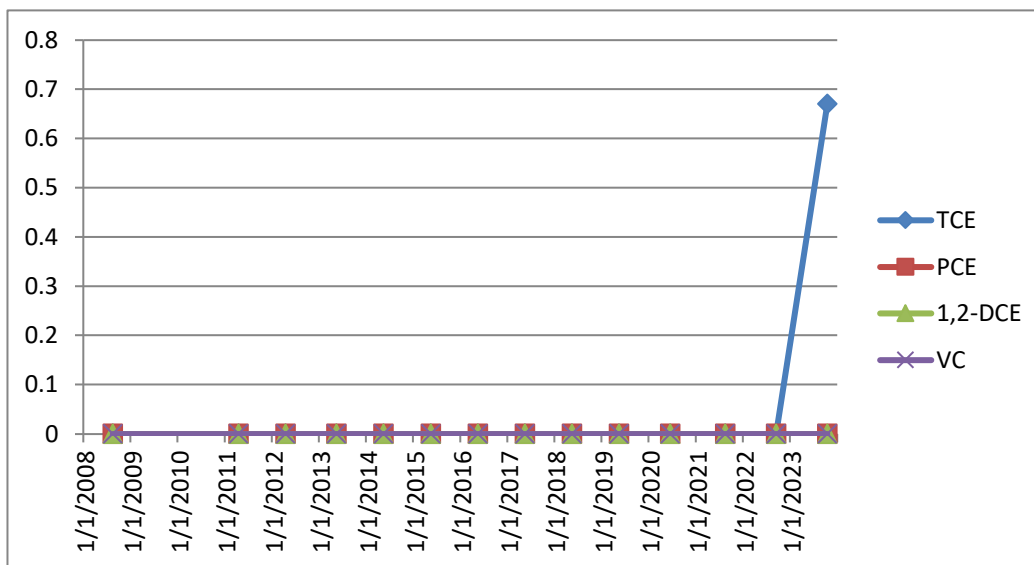
Date	TCE	PCE	1,2-DCE	VC
8/13/2008	<	<	<	<
4/27/2011	<	<	<	<
4/25/2012	<	<	<	<
5/14/2013	<	<	<	<
5/30/2014	<	<	<	<
5/14/2015	<	<	<	<
5/9/2016	<	<	<	<
5/1/2017	<	<	<	<
5/16/2018	<	<	<	<
5/14/2019	<	<	<	<
6/29/2020	<	<	<	<
8/26/2021	<	<	<	<
9/29/2022	<	<	<	<
10/6/2023	0.67	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-8-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

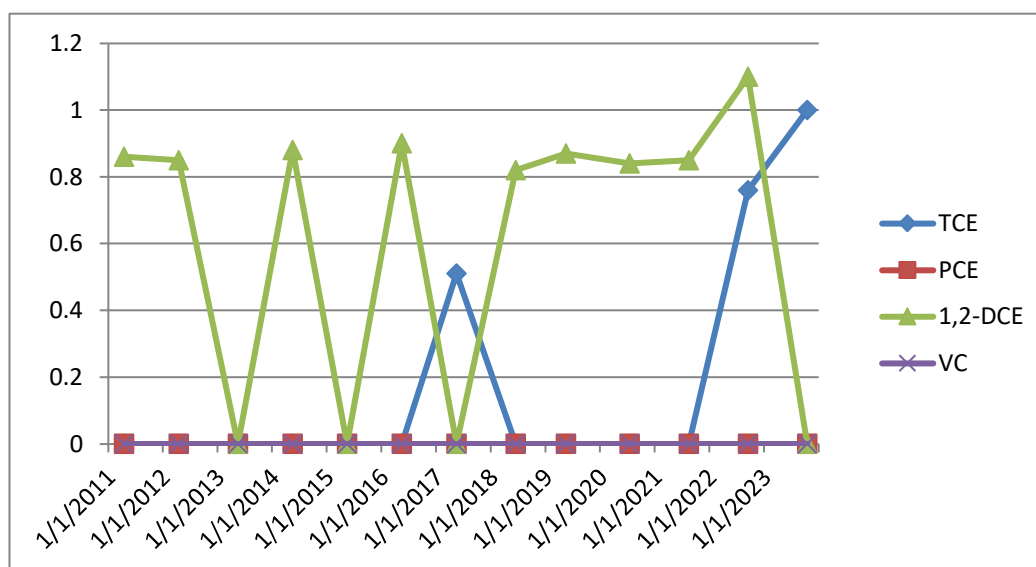
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	<	<	0.86	<
4/30/2012	<	<	0.85	<
5/13/2013	<	<	<	<
5/15/2014	<	<	0.88	<
5/22/2015	<	<	<	<
5/16/2016	<	<	0.9	<
5/2/2017	0.51	<	<	<
6/1/2018	<	<	0.82	<
5/30/2019	<	<	0.87	<
7/10/2020	<	<	0.84	<
8/30/2021	<	<	0.85	<
9/27/2022	0.76	<	1.1	<
10/9/2023	1	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-8-2 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

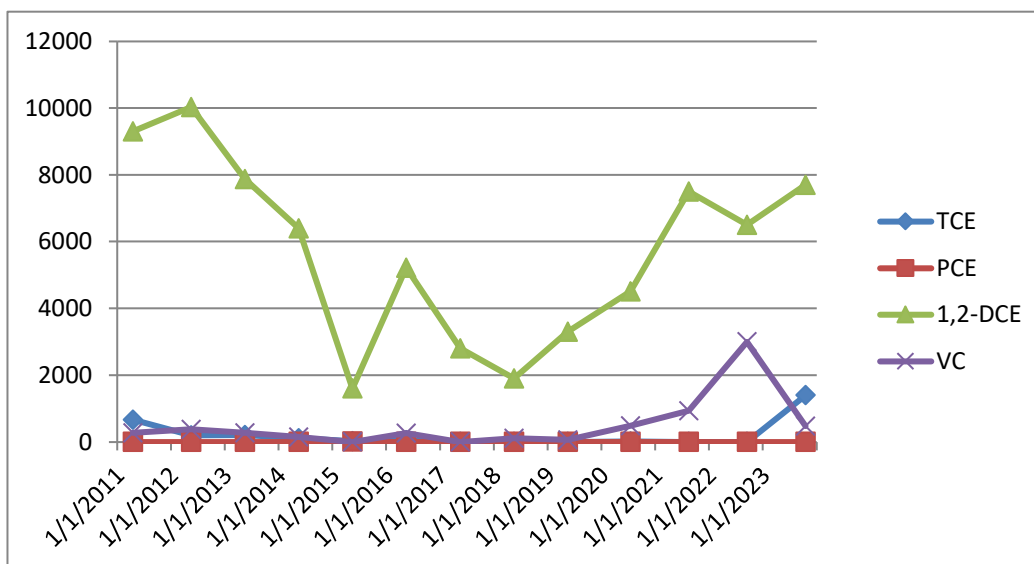
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	660	<	9,300	270
5/3/2012	190	<	10,034	380
5/13/2013	200	<	7,877	270
5/16/2014	110	<	6400	150
5/22/2015	24	10	1,600	<
5/17/2016	47	<	5,216	260
5/2/2017	<	<	2,800	<
5/10/2018	<	<	1,900	110
5/30/2019	<	<	3,300	58
7/10/2020	11	<	4,512	480
8/30/2021	<	<	7,500	930
9/27/2022	<	<	6,500	3000
10/9/2023	1400	<	7,700	470

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	3.1	12
7/10/2020	<	<	<	<
8/30/2021	1.3	<	6.2	14
9/28/2022	2.8	<	9.3	25
10/10/2023	7.9	<	<	<

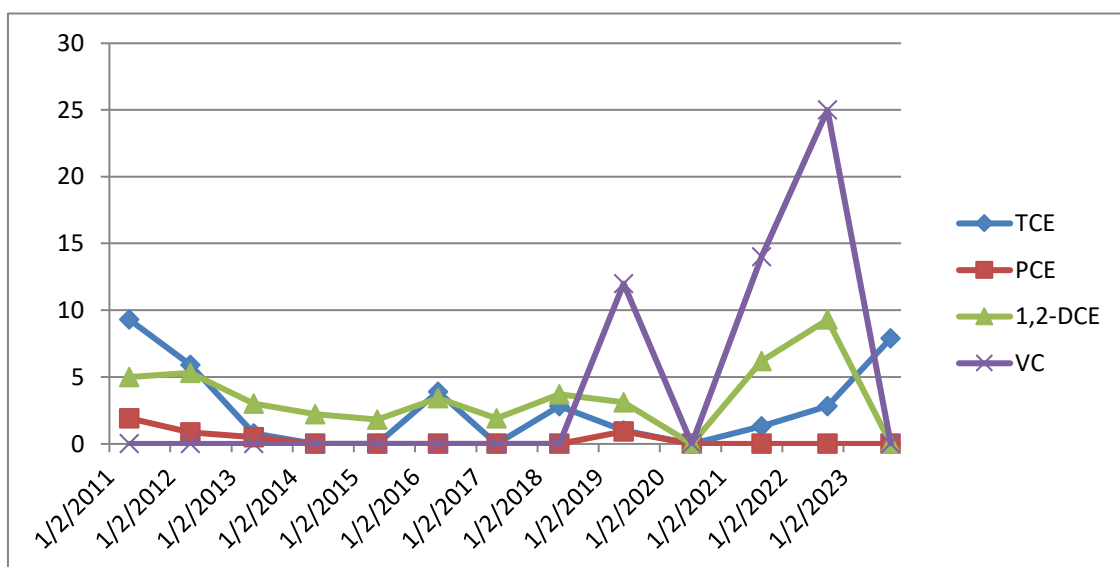
Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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

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



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

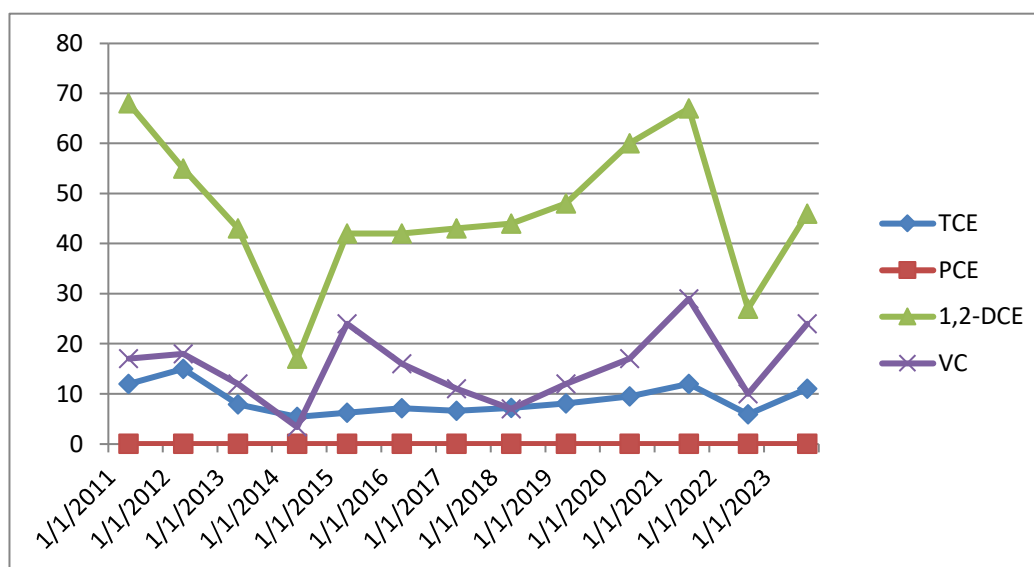
Date	TCE	PCE	1,2-DCE	VC
5/2/2011	12	<	68	17
5/1/2012	15	<	55	18
5/13/2013	7.9	<	43	12
6/2/2014	5.4	<	17	3.4
5/12/2015	6.2	<	42	24
5/9/2016	7.1	<	42	16
5/1/2017	6.6	<	43	11
5/11/2018	7.2	<	44	7
5/14/2019	8.1	<	48	12
7/2/2020	9.5	<	60	17
8/25/2021	12	<	67	29
9/28/2022	5.9	<	27	10
10/11/2023	11	<	46	24

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-8-003-B Groundwater Data

GM Components Holdings, LLC
Lockport, New York

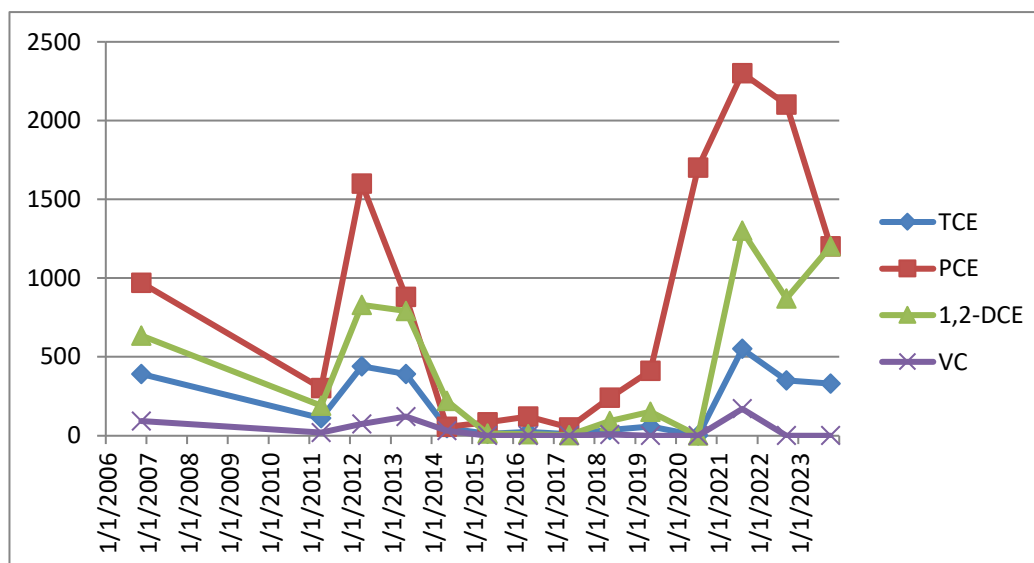
Date	TCE	PCE	1,2-DCE	VC
11/11/2006	390	970	635	91
4/28/2011	110	300	190	19
4/30/2012	440	1,600	830	73
5/10/2013	390	880	790	120
5/29/2014	46	55	220	31
5/14/2015	10	83	12	<
5/16/2016	23	120	9.2	<
5/4/2017	7.7	52	2.6	<
5/30/2018	35	240	92	7.3
5/29/2019	58	410	150	<
7/10/2020	<	1700	<	<
8/26/2021	550	2300	1300	170
9/28/2022	350	2100	870	<
10/10/2023	330	1200	1200	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-9-101A Groundwater Data

GM Components Holdings, LLC
Lockport, New York

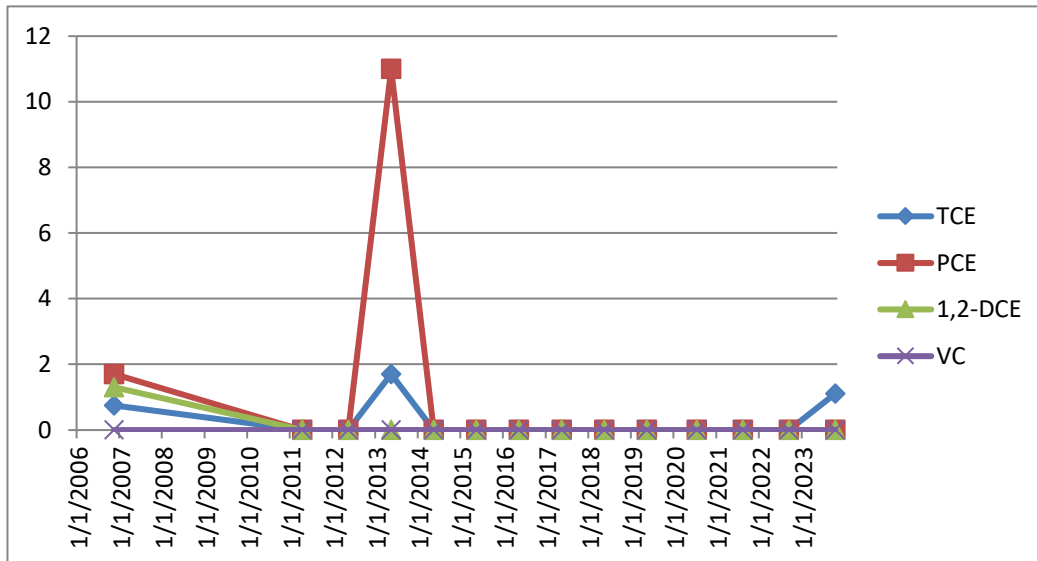
Date	TCE	PCE	1,2-DCE	VC
11/10/2006	0.74	1.7	1.3	<
4/28/2011	<	<	<	<
5/3/2012	<	<	<	<
5/13/2013	1.7	11	<	<
5/22/2014	<	<	<	<
5/21/2015	<	<	<	<
5/18/2016	<	<	<	<
5/5/2017	<	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/13/2020	<	<	<	<
8/31/2021	<	<	<	<
9/26/2022	<	<	<	<
10/6/2023	1.1	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-9-12 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

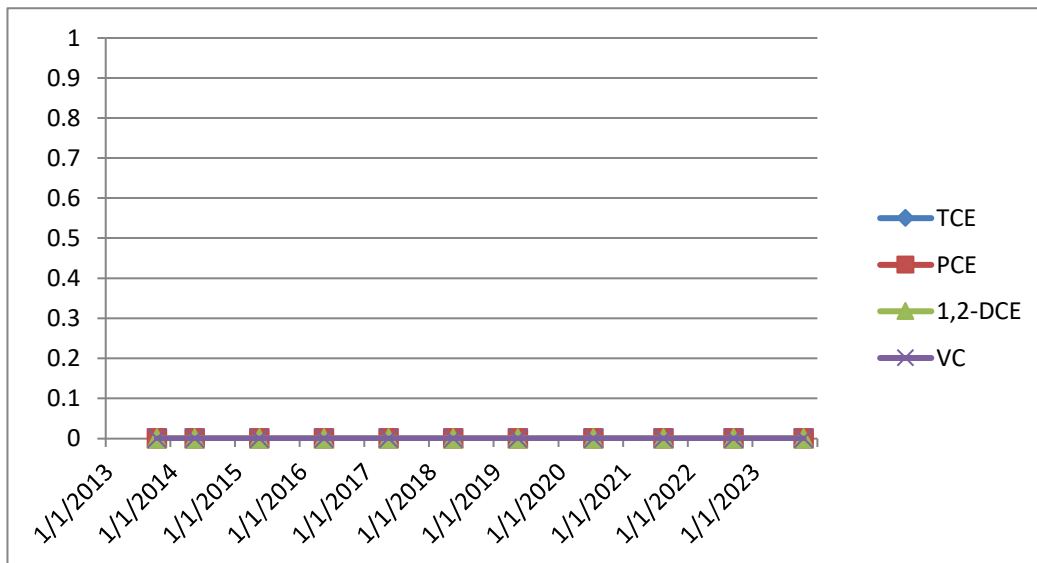
Date	TCE	PCE	1,2-DCE	VC
10/1/2013	<	<	<	<
5/21/2014	<	<	<	<
5/21/2015	<	<	<	<
5/19/2016	<	<	<	<
5/5/2017	<	<	<	<
5/31/2018	<	<	<	<
5/30/2019	<	<	<	<
7/13/2020	<	<	<	<
8/31/2021	<	<	<	<
9/26/2022	<	<	<	<
10/17/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



TK-6 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

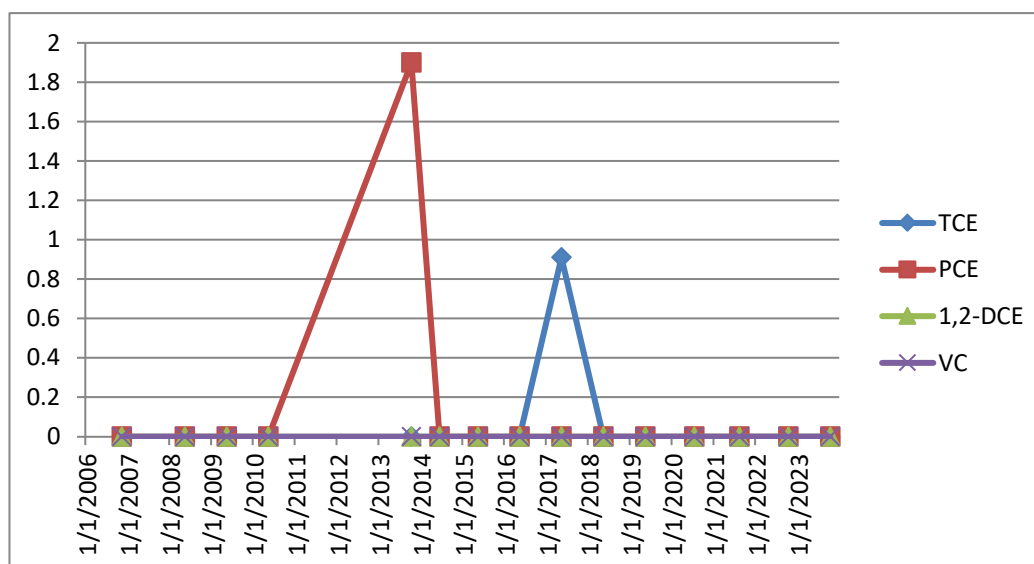
Date	TCE	PCE	1,2-DCE	VC
11/8/2006	<	<	<	<
5/6/2008	<	<	<	<
5/6/2009	<	<	<	<
5/7/2010	<	<	<	<
10/7/2013	<	1.9	<	<
6/2/2014	<	<	<	<
5/20/2015	<	<	<	<
5/19/2016	<	<	<	<
5/10/2017	0.91	<	<	<
5/29/2018	<	<	<	<
5/23/2019	<	<	<	<
7/6/2020	<	<	<	<
8/30/2021	<	<	<	<
10/3/2022	<	<	<	<
10/5/2023	<	<	<	<

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



Bldg 10-MW-1 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

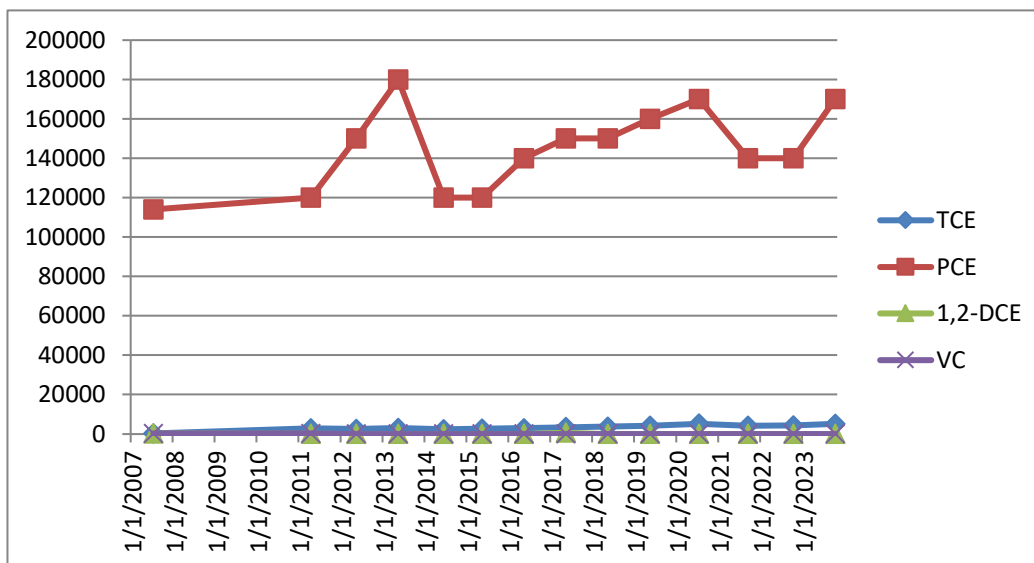
Date	TCE	PCE	1,2-DCE	VC
7/18/2007	200	114,000	235	220
4/29/2011	2,800	120,000	16	100
5/2/2012	2,500	150,000	<	<
5/9/2013	3,000	180,000	<	<
6/3/2014	2300	120000	<	<
5/26/2015	2,600	120,000	<	<
5/19/2016	2,700	140,000	<	<
5/10/2017	3,400	150,000	630	<
5/31/2018	3,600	150,000	<	<
5/31/2019	4,100	160,000	<	<
7/13/2020	5,200	170,000	<	<
9/1/2021	4,100	140,000	<	<
10/3/2022	4,300	140,000	<	<
10/16/2023	5,100	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

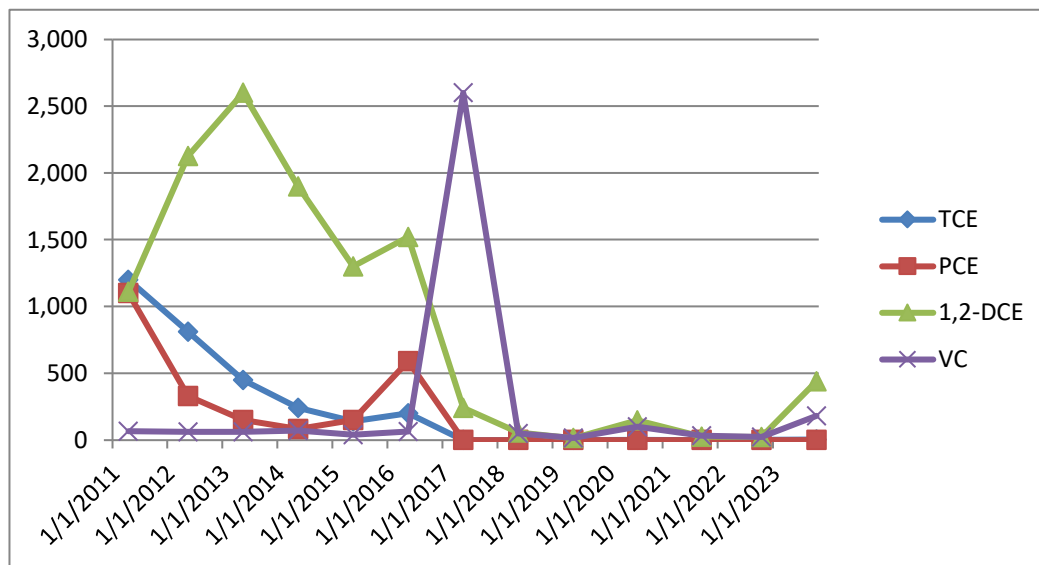
Date	TCE	PCE	1,2-DCE	VC
4/29/2011	1,200	1,100	1,110	66
5/2/2012	810	330	2,126	60
5/9/2013	450	150	2,600	60
5/22/2014	240	83	1900	70
5/19/2015	140	150	1,300	38
5/17/2016	200	590	1,520	62
5/8/2017	<	<	241	2600
5/30/2018	<	<	57	49
5/29/2019	<	<	14.5	15
7/6/2020	1	<	146.5	98
9/1/2021	<	<	23.6	33
10/3/2022	0.65	<	22.6	23
10/13/2023	3.6	<	438.2	180

Notes:

Results are provided in parts per billion (ppb)

< = non-detect laboratory result

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



MW-10-3 Groundwater Data

GM Components Holdings, LLC
Lockport, New York

Date	TCE	PCE	1,2-DCE	VC
4/29/2011	6	13	11	<
5/2/2012	7	14	14	<
5/9/2013	24	24	38	1.4
5/22/2014	9	14	11	<
5/20/2015	7.2	13	10	<
5/18/2016	3	3.4	7.2	<
5/8/2017	3.8	2.4	3.7	<
5/18/2018	2.9	2	2.1	<
5/29/2019	4.5	3.1	3.6	<
7/6/2020	3.5	3	1.2	<
8/27/2021	12	13	12	<
9/26/2022	4.5	2.9	1	<
10/11/2023	4.9	2.7	1.6	<

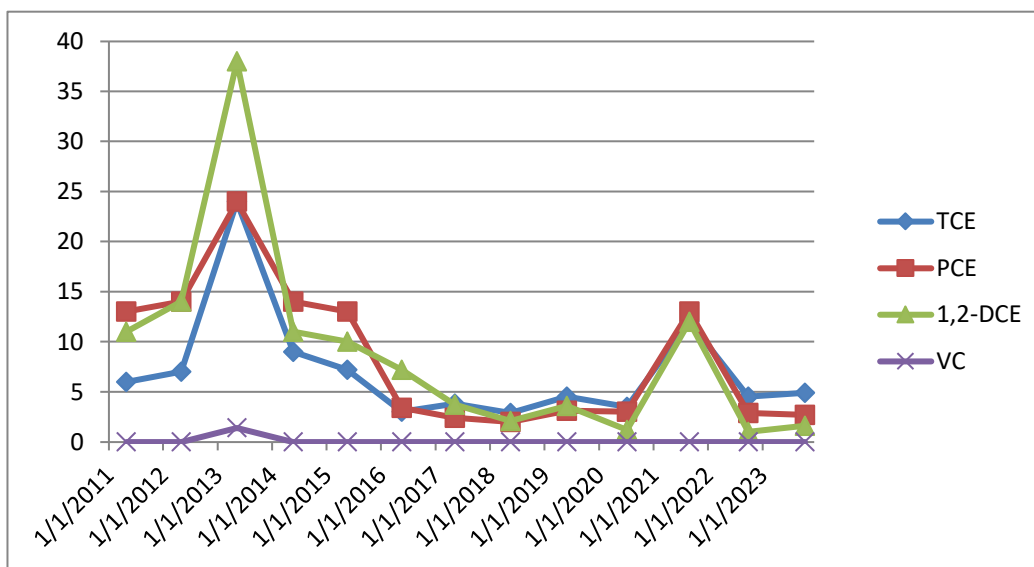
Notes:

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

Data Verification Report

December 05, 2023

To	Claire Mondello [cmondello@haleyaldrich.com]	Project No.	12616852-256073
Copy to	Tom Bohlen [thomas.bohlen@gza.com]	DVR No.	N/A
From	Christopher Arcuri/eew/9	Contact No.	717-585-6408
Project Name	GM - Lockport	Email	Christopher.Arcuri@ghd.com
Subject	Analytical Results and Data Verification Routine Groundwater Quality Monitoring 2023 GM – Lockport Facility Lockport, New York October 2023		

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

1. Introduction

This document details a data verification of analytical results for groundwater samples collected in support of the Routine Groundwater Quality Monitoring at the Lockport site during October 2023. Samples were submitted to Eurofins Environment Testing located in Buffalo, New York. Samples submitted for dissolved gases were subcontracted Eurofins TestAmerica located in South Burlington, Vermont. Samples submitted for dissolved hydrogen were subcontracted to Pace Analytical Services located in Baton Rouge, Louisiana. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

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

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

1. "National Functional Guidelines for Inorganic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-R-20-006, November 2020.
2. "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540-R-20-005, November 2020.

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

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. Most samples were prepared and analyzed within the required holding times, with the exception of one sample submitted for nitrates and nitrites. The sample results were qualified and rejected as 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 analytical batch of 20 samples or less.

Most method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation. Sample results that were qualified due to method blank contamination are 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 were within the laboratory control limits.

5. Laboratory Control Sample Analyses

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

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

Organic Analyses

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

Inorganic Analyses

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

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

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

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

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

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

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

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision. Sample results that were qualified or rejected due to outlying MS/MSD recoveries are presented in Table 6.

Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines" using the laboratory control limits. Most percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision. Sample results that were qualified due to outlying MS or MS/MSD recoveries are 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 Table 1. The laboratory performed additional site-specific duplicate analyses internally. The duplicate results were evaluated per the "Guidelines" using the laboratory control limits.

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

8. Field QA/QC Samples

The field QA/QC consisted of 11 trip blank samples and 2 field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, 11 trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

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

Most field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision. The sample results qualified due to field duplicate variability are presented in Table 7.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this report. 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 exceptions and qualifications noted herein.

Regards,



Christopher Arcuri

Data Intelligence – Data Validator

Table 1

Sample Collection and Analysis Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters											Comments
						VOCs	SVOCs	Dissolved Gases	Metals	Anions	Ammonia	Nitrate/Nitrite	Alkalinity	Sulfide	TOC	VFAs	
4802133011	MW-10-100323	MW-10	Groundwater	10/03/2023	13:00	X	X	X	X	X	X	X	X	X	X	X	MS
	MW-11-100423	MW-11	Groundwater	10/04/2023	15:00	X	X	X	X	X	X	X	X	X	X	X	MS
	MW-12-100423	MW-12	Groundwater	10/04/2023	09:00	X	X	X	X	X	X	X	X	X	X	X	MS
	MW-13-100523	MW-13	Groundwater	10/05/2023	11:00	X	X	X	X	X	X	X	X	X	X	X	
	MW-14-100523	MW-14	Groundwater	10/05/2023	13:30	X	X	X	X	X	X	X	X	X	X	X	MS/MSD
	MW-15-100423	MW-15	Groundwater	10/04/2023	12:00	X	X	X	X	X	X	X	X	X	X	X	MS, DUP
	MW-4-100323	MW-4	Groundwater	10/03/2023	11:30	X	X	X	X	X	X	X	X	X	X	X	MS/MSD, DUP
	MW-7-100623	MW-7	Groundwater	10/06/2023	09:45	X	X	X	X	X	X	X	X	X	X	X	MS
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
4802133922	BLDG-10-MW-1-101623	BLDG-10-MW-1	Groundwater	10/16/2023	17:00	X	X	X	X	X	X	X	X	X	X	X	MS/MSD, DUP
	DUPE-101023	MW-8-003-B	Groundwater	10/10/2023	14:00	X	X	X	X	X	X	X	X	X	X	X	FD(MW-8-003-B-101023), DUP
	DUPE-2-101923	MW-7-5	Groundwater	10/19/2023	10:00	X	X	X	X	X	X	X	X	X	X	X	FD(MW-7-5-101923)
	MW-10-2-101323	MW-10-2	Groundwater	10/13/2023	10:00	X	X	X	X	X	X	X	X	X	X	X	MS/MSD
	MW-10-3-101123	MW-10-3	Groundwater	10/11/2023	15:00	X	X	X	X	X	X	X	X	X	X	X	MS, DUP
	MW-6-1-101623	MW-6-1	Groundwater	10/16/2023	13:00	X	X	X	X	X	X	X	X	X	X	X	
	MW-6-2-101623	MW-6-2	Groundwater	10/16/2023	15:00	X	X	X	X	X	X	X	X	X	X	X	DUP
	MW-6-F-8-100623	MW-6-F-8	Groundwater	10/06/2023	13:00	X	X	X	X	X	X	X	X	X	X	X	MS
	MW-7-1R-101123	MW-7-1	Groundwater	10/11/2023	11:30	X	X	X	X	X	X	X	X	X	X	X	
	MW-7-2-101723	MW-7-2	Groundwater	10/17/2023	13:00	X	X	X	X	X	X	X	X	X	X	X	

Table 1

Sample Collection and Analysis Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters											Comments
						VOCs	SVOCs	Dissolved Gases	Metals	Anions	Ammonia	Nitrate/Nitrite	Alkalinity	Sulfide	TOC	VFAs	
4802133922	MW-7-3-101123	MW-7-3	Groundwater	10/11/2023	10:00	X	X	X	X	X	X	X	X	X	X		MS
	MW-7-4-101823	MW-7-4	Groundwater	10/18/2023	12:30	X	X	X	X	X	X	X	X	X	X		
	MW-7-5-101923	MW-7-5	Groundwater	10/19/2023	09:50	X	X	X	X	X	X	X	X	X	X		MS, DUP
	MW-7-6-101023	MW-7-6	Groundwater	10/10/2023	16:45	X	X	X	X	X	X	X	X	X	X		
	MW-7-7-101323	MW-7-7	Groundwater	10/13/2023	13:30	X	X	X	X	X	X	X	X	X	X		
	MW-7-8-101723	MW-7-8	Groundwater	10/17/2023	15:30	X	X	X	X	X	X	X	X	X	X		MS/MSD
	MW-7-A-6-101923	MW-7-A-6	Groundwater	10/19/2023	11:30	X	X	X	X	X	X	X	X	X	X		
	MW-7-C-2-101023	MW-7-C-2	Groundwater	10/10/2023	13:30	X	X	X	X	X	X	X	X	X	X		MS
	MW-7-P-1-101823	MW-7-P-1	Groundwater	10/18/2023	10:45	X	X	X	X	X	X	X	X	X	X		MS/MSD, DUP
	MW-8-003-B-101023	MW-8-003-B	Groundwater	10/10/2023	10:00	X	X	X	X	X	X	X	X	X	X		MS, DUP
	MW-8-1-100923	MW-8-1	Groundwater	10/09/2023	13:45	X	X	X	X	X	X	X	X	X	X		
	MW-8-2-100923	MW-8-2	Groundwater	10/09/2023	11:30	X	X	X	X	X	X	X	X	X	X		MS/MSD
	MW-8-3-101023	MW-8-3	Groundwater	10/10/2023	17:45	X	X	X	X	X	X	X	X	X	X		MS
	MW-8-4-101123	MW-8-4	Groundwater	10/11/2023	13:30	X	X	X	X	X	X	X	X	X	X		
	MW-9-101-A-100623	MW-9-101-A	Groundwater	10/06/2023	11:00	X	X	X	X	X	X	X	X	X	X		
	MW-9-12-101723	MW-9-12	Groundwater	10/17/2023	11:00	X	X	X	X	X	X	X	X	X	X		MS, DUP
	TK-6-100523	TK-6	Groundwater	10/05/2023	15:30	X	X	X	X	X	X	X	X	X	X		
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK

Table 1

Sample Collection and Analysis Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters											Comments
						VOCs	SVOCs	Dissolved Gases	Metals	Anions	Ammonia	Nitrate/Nitrite	Alkalinity	Sulfide	TOC	VFAs	
4802133922	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK
	TRIP BLANK	-	Water	-	-	X											TRIP BLANK

Notes:

DUP	- Laboratory Duplicate
FD	- Field Duplicate Sample of sample in parenthesis
MS	- Matrix Spike
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
TOC	- Total Organic Carbon
VFAs	- Volatile Fatty Acids
"-"	- Not Applicable

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	BLDG-10-MW-1	MW-4	MW-6-1	MW-6-2	MW-6-F-8	MW-7	MW-7-1
Sample Name:	BLDG-10-MW-1-101623	MW-4-100323	MW-6-1-101623	MW-6-2-101623	MW-6-F-8-100623	MW-7-100623	MW-7-1R-101123
Sample Date:	10/16/2023	10/03/2023	10/16/2023	10/16/2023	10/06/2023	10/06/2023	10/11/2023

Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	5000 U	29000	1.0 U	1.0 U	1.0 U	67000	4.0 U
Tetrachloroethene	µg/L	170000	800 U	1.0 U	1.0 U	1.0 U	10000 U	4.0 U
trans-1,2-Dichloroethene	µg/L	5000 U	800 U	1.0 U	1.0 U	1.0 U	10000 U	4.0 U
Trichloroethene	µg/L	5100	30000	1.0 U	1.0 U	0.67 J	660000	4.0 U
Vinyl chloride	µg/L	5000 U	2200	1.0 U	1.0 U	1.0 U	10000 U	4.0 U
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	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	BLDG-10-MW-1	MW-4	MW-6-1	MW-6-2	MW-6-F-8	MW-7	MW-7-1
Sample Name:	BLDG-10-MW-1-101623	MW-4-100323	MW-6-1-101623	MW-6-2-101623	MW-6-F-8-100623	MW-7-100623	MW-7-1R-101123
Sample Date:	10/16/2023	10/03/2023	10/16/2023	10/16/2023	10/06/2023	10/06/2023	10/11/2023
Unit							
nmol/L	--	1.6 J	--	--	--	--	--
µg/L	74000	56000	120000	57000	28000	20000	67000
µg/L	7.5 U	58	7.5 U	7.5 U	7.5 U	330 U	7.5 U
µg/L	1.5 J	410	7.0 U	7.0 U	7.0 U	860	7.0 U
µg/L	3.7 J	1100	220	4.0 U	4.0 U	110 J	33
mg/L	1.0	1.1	24.6	0.16	0.19	0.031 J	0.12
mg/L	103	81.5	63.7	50.6	53.1	39.8	126
mg/L	0.70	0.45	4.8	0.35	0.17	0.012	0.87
mg/L	4.6	18.4	5.0	5.2	2.3	10.8	7.7
mg/L	134	1490	577	677	777	187	1230
mg/L	--	50.0 U	--	--	--	5.0 U	--
mg/L	--	50.0 U	--	--	--	8.6	--
mg/L	310	330 J-	512	436	289	248	337 J-
mg/L	0.16	1.5	1.7	0.025	0.076 J-	0.61	0.050
mg/L	--	50.0 U	--	--	--	5.0 U	--
mg/L	570	25.0 U	1100	1450	1530	158	2720
mg/L	--	50.0 U	--	--	--	5.0 U	--
mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.15	0.050 U	0.050 U
mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	BLDG-10-MW-1	MW-4	MW-6-1	MW-6-2	MW-6-F-8	MW-7	MW-7-1
Sample Name:	BLDG-10-MW-1-101623	MW-4-100323	MW-6-1-101623	MW-6-2-101623	MW-6-F-8-100623	MW-7-100623	MW-7-1R-101123
Sample Date:	10/16/2023	10/03/2023	10/16/2023	10/16/2023	10/06/2023	10/06/2023	10/11/2023

Parameters	Unit							
General Chemistry (Continued)								
Nitrite/Nitrate	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.19 J+	0.050 U	0.050 U
Propionic acid	mg/L	--	50.0 U	--	--	--	5.0 U	--
Pyruvic acid	mg/L	--	75.0 U	--	--	--	7.5 U	--
Sulfate	mg/L	231	100 U	29.8	101	175	121	132
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	4.7	2.7	7.2	1.9	4.8	9.1	1.5

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:		MW-7-2	MW-7-3	MW-7-4	MW-7-5	MW-7-5	MW-7-6	MW-7-7
Sample Name:		MW-7-2-101723	MW-7-3-101123	MW-7-4-101823	MW-7-5-101923	DUPE-2-101923	MW-7-6-101023	MW-7-7-101323
Sample Date:		10/17/2023	10/11/2023	10/18/2023	10/19/2023	10/19/2023 Duplicate	10/10/2023	10/13/2023
Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	1.0 U	2.0 U	1.0 U	1100	1500	630	36000
Tetrachloroethene	µg/L	1.0 U	2.0 U	1.0 U	7500 J	14000 J	560	100000
trans-1,2-Dichloroethene	µg/L	1.0 U	2.0 U	1.0 U	200 U	200 U	10 U	1000 U
Trichloroethene	µg/L	1.0 U	2.0 U	3.3	1200	1900	310	20000
Vinyl chloride	µg/L	1.0 U	2.0 U	1.0 U	200 U	200 U	9.2 J	6000
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	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:		MW-7-2	MW-7-3	MW-7-4	MW-7-5	MW-7-5	MW-7-6	MW-7-7
Sample Name:		MW-7-2-101723	MW-7-3-101123	MW-7-4-101823	MW-7-5-101923	DUPE-2-101923	MW-7-6-101023	MW-7-7-101323
Sample Date:		10/17/2023	10/11/2023	10/18/2023	10/19/2023	10/19/2023 Duplicate	10/10/2023	10/13/2023
Parameters	Unit							
Dissolved Gases								
Hydrogen	nmol/L	--	--	--	--	--	--	--
Carbon dioxide	µg/L	38000	94000	43000	96000	100000	44000	56000
Ethane	µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.8	330 U
Ethene	µg/L	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	420
Methane	µg/L	4.0 U	300	4.0 U	12	9.9	250	870
Metals								
Iron	mg/L	0.021 J	7.6	0.075	0.14	0.10	0.13	0.11
Magnesium	mg/L	35.7	111	42.8	106	93.3	84.5	151
Manganese	mg/L	0.0059	0.51	0.0068	1.1	0.99	0.32	0.036
Potassium	mg/L	1.3	25.5	3.3	15.0	10.7	13.5	39.6
Sodium	mg/L	104	4950	255	2600	2840	3480	1550
General Chemistry								
2-Hydroxypropanoic acid	mg/L	--	--	--	--	--	--	--
Acetic acid	mg/L	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	362 J-	434 J-	384 J-	464 J-	440 J-	327 J-	298 J-
Ammonia-N	mg/L	0.020 U	1.6	0.017 J	0.081	0.081	0.071 J-	3.2
Butanoic acid	mg/L	--	--	--	--	--	--	--
Chloride	mg/L	181	8240	442	5610	5490	5830	3410
Formic acid	mg/L	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	0.050 U	0.038 J	0.045 J	0.90	1.0	0.050 U	0.050 U
Nitrite (as N)	mg/L	0.050 U	0.050 U	0.050 U	0.10 J-	0.099 J-	0.050 U	0.050 U

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:		MW-7-2	MW-7-3	MW-7-4	MW-7-5	MW-7-5	MW-7-6	MW-7-7
Sample Name:		MW-7-2-101723	MW-7-3-101123	MW-7-4-101823	MW-7-5-101923	DUPE-2-101923	MW-7-6-101023	MW-7-7-101323
Sample Date:		10/17/2023	10/11/2023	10/18/2023	10/19/2023	10/19/2023 Duplicate	10/10/2023	10/13/2023
Parameters	Unit							
General Chemistry (Continued)								
Nitrite/Nitrate	mg/L	0.050 U	0.038 J	0.045 J	1.0	1.1	0.050 U	0.050 U
Propionic acid	mg/L	--	--	--	--	--	--	--
Pyruvic acid	mg/L	--	--	--	--	--	--	--
Sulfate	mg/L	23.2	771	57.9	507	497	274	482
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.2
Total organic carbon (TOC)	mg/L	1.3	3.5	1.0 U	8.2	6.8	1.8	10.3

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-7-8	MW-7-A-6	MW-7-C-2	MW-7-P-1	MW-8-1	MW-8-2	MW-8-3
Sample Name:	MW-7-8-101723	MW-7-A-6-101923	MW-7-C-2-101023	MW-7-P-1-101823	MW-8-1-100923	MW-8-2-100923	MW-8-3-101023
Sample Date:	10/17/2023	10/19/2023	10/10/2023	10/18/2023	10/09/2023	10/09/2023	10/10/2023

Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	410 J	95000	540	2.0 U	1.0 U	R	2.0 U
Tetrachloroethene	µg/L	710 J	64000	5.0 U	2.0 U	1.0 U	100 U	2.0 U
trans-1,2-Dichloroethene	µg/L	10 U	2000 U	5.0 U	2.4	1.0 U	100 U	2.0 U
Trichloroethene	µg/L	220	13000	5.0 U	2.0 U	1.0	1400	7.9
Vinyl chloride	µg/L	590 J	72000	81	2.0 U	1.0 U	470	2.0 U
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	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:		MW-7-8	MW-7-A-6	MW-7-C-2	MW-7-P-1	MW-8-1	MW-8-2	MW-8-3
Sample Name:		MW-7-8-101723	MW-7-A-6-101923	MW-7-C-2-101023	MW-7-P-1-101823	MW-8-1-100923	MW-8-2-100923	MW-8-3-101023
Sample Date:		10/17/2023	10/19/2023	10/10/2023	10/18/2023	10/09/2023	10/09/2023	10/10/2023
Parameters	Unit							
Dissolved Gases								
Hydrogen	nmol/L	--	--	--	--	--	--	--
Carbon dioxide	µg/L	43000	300000	53000	110000	58000	44000	45000
Ethane	µg/L	54	140	7.5 U	34	15	83 U	7.5 U
Ethene	µg/L	21	5500	8.1	7.0 U	7.0 U	77 U	7.0 U
Methane	µg/L	150	1400	320	6100	160	350	35
Metals								
Iron	mg/L	18.4	16.8	0.58	94.5	0.034 J	4.5	0.047 J
Magnesium	mg/L	180	142	133	344	121	41.6	60.5
Manganese	mg/L	0.99	2.0	0.35	4.1	0.11	0.52	3.0
Potassium	mg/L	39.4	5.1	5.6	39.3	19.1	9.6	414
Sodium	mg/L	2740	481	118	163	614	74.1	362
General Chemistry								
2-Hydroxypropanoic acid	mg/L	--	--	--	--	--	--	--
Acetic acid	mg/L	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	108 J-	516 J-	338 J-	132 J-	276	343	235 J-
Ammonia-N	mg/L	0.81	0.15	0.18 J-	197	1.2 J-	0.31 J-	5.2 J-
Butanoic acid	mg/L	--	--	--	--	--	--	--
Chloride	mg/L	5060	1420	178	3560	1320	158	1790
Formic acid	mg/L	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	0.050 U	0.050 U	0.050 U	0.038 J-	0.050 U	0.050 U	0.21
Nitrite (as N)	mg/L	0.050 U	0.050 U	0.050 U	R	0.050 U	0.050 U	0.047 J

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-7-8	MW-7-A-6	MW-7-C-2	MW-7-P-1	MW-8-1	MW-8-2	MW-8-3
Sample Name:	MW-7-8-101723	MW-7-A-6-101923	MW-7-C-2-101023	MW-7-P-1-101823	MW-8-1-100923	MW-8-2-100923	MW-8-3-101023
Sample Date:	10/17/2023	10/19/2023	10/10/2023	10/18/2023	10/09/2023	10/09/2023	10/10/2023

Parameters	Unit							
General Chemistry (Continued)								
Nitrite/Nitrate	mg/L	0.050 U	0.050 U	0.050 U	0.038 J-	0.050 U	0.050 U	0.26
Propionic acid	mg/L	--	--	--	--	--	--	--
Pyruvic acid	mg/L	--	--	--	--	--	--	--
Sulfate	mg/L	235	25.0 J	860	23.5 J	869	62.3	73.9
Sulfide	mg/L	1.0 U	1.0 U	1.0 U	1.0 U	6.0	1.0 U	1.0 U
Total organic carbon (TOC)	mg/L	1.5	26.3	0.89 J	2.2	1.0 U	1.0 U	8.0

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-8-003-B	MW-8-003-B	MW-8-4	MW-9-12	MW-9-101-A	MW-10	MW-10-2
Sample Name:	MW-8-003-B-101023	DUPE-101023	MW-8-4-101123	MW-9-12-101723	MW-9-101-A-100623	MW-10-100323	MW-10-2-101323
Sample Date:	10/10/2023	10/10/2023	10/11/2023	10/17/2023	10/06/2023	10/03/2023	10/13/2023
		Duplicate					

Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	1200	1100	46	1.0 U	1.0 U	170	430
Tetrachloroethene	µg/L	1200	1800	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	50 U	50 U	1.0 U	1.0 U	1.0 U	5.0 U	8.2
Trichloroethene	µg/L	330	380	11	1.0 U	1.1	24	3.6 J
Vinyl chloride	µg/L	50 U	50 U	24	1.0 U	1.0 U	6.5	180
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	--	--

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-8-003-B	MW-8-003-B	MW-8-4	MW-9-12	MW-9-101-A	MW-10	MW-10-2
Sample Name:	MW-8-003-B-101023	DUPE-101023	MW-8-4-101123	MW-9-12-101723	MW-9-101-A-100623	MW-10-100323	MW-10-2-101323
Sample Date:	10/10/2023	10/10/2023	10/11/2023	10/17/2023	10/06/2023	10/03/2023	10/13/2023
		Duplicate					
Unit							
nmol/L	--	--	--	--	--	1.7 J	--
µg/L	10000 U	11000	27000	30000	37000	44000	23000
µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	6.9 J
µg/L	7.0 U	7.1	7.0 U	7.0 U	7.0 U	7.0 U	88 J
µg/L	4.0 U	4.7	530	17	4.0 U	59	72 J
mg/L	0.12	0.10	0.38	0.18	0.050 U	0.050	0.78
mg/L	11.2	10.9	44.6	34.4	109	26.8	50.2
mg/L	0.56	0.47	0.29	0.60	0.047	0.36	0.23
mg/L	6.2	6.3	13.1	5.4	24.5	2.5	8.9
mg/L	2070	2030	2220	676	1920	717	1390
mg/L	--	--	--	--	--	10.0 U	--
mg/L	--	--	--	--	--	10.0 U	--
mg/L	279 J-	294 J-	332 J-	331 J-	276	389 J-	238 J-
mg/L	0.16 J-	0.18 J-	0.057	0.12	0.020 U	0.020 U	0.30
mg/L	--	--	--	--	--	10.0 U	--
mg/L	2900	2880	3220	1040	3210	886	2250
mg/L	--	--	--	--	--	10.0 U	--
mg/L	0.062	0.055	0.021 J	0.14	0.13	0.024 J	0.050 U
mg/L	0.048 J	0.044 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-8-003-B	MW-8-003-B	MW-8-4	MW-9-12	MW-9-101-A	MW-10	MW-10-2
Sample Name:	MW-8-003-B-101023	DUPE-101023	MW-8-4-101123	MW-9-12-101723	MW-9-101-A-100623	MW-10-100323	MW-10-2-101323
Sample Date:	10/10/2023	10/10/2023	10/11/2023	10/17/2023	10/06/2023	10/03/2023	10/13/2023
		Duplicate					

Parameters	Unit							
General Chemistry (Continued)								
Nitrite/Nitrate	mg/L	0.11	0.099	0.021 J	0.14	0.17 J+	0.024 J	0.050 U
Propionic acid	mg/L	--	--	--	--	--	10.0 U	--
Pyruvic acid	mg/L	--	--	--	--	--	15.0 U	--
Sulfate	mg/L	106	106	297	119	1150	167	180
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	1.7	1.8	2.5	1.5	4.4	3.7	1.8

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-10-3	MW-11	MW-12	MW-13	MW-14	MW-15	TK-6
Sample Name:	MW-10-3-101123	MW-11-100423	MW-12-100423	MW-13-100523	MW-14-100523	MW-15-100423	TK-6-100523
Sample Date:	10/11/2023	10/04/2023	10/04/2023	10/05/2023	10/05/2023	10/04/2023	10/05/2023

Parameters	Unit							
Volatile Organic Compounds								
cis-1,2-Dichloroethene	µg/L	1.6	1.0 U	3.6	1.0 U	2.0 U	1.0 U	2.0 U
Tetrachloroethene	µg/L	2.7	1.0 U	2.0 U	1.0 U	2.0 U	6.8	2.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	2.0 U
Trichloroethene	µg/L	4.9	1.0 U	2.0 U	1.0 U	2.0 U	0.95 J	2.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	2.3	1.0 U	2.0 U	1.0 U	2.0 U
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	--	--	--	--	--	--	--

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-10-3	MW-11	MW-12	MW-13	MW-14	MW-15	TK-6	
Sample Name:	MW-10-3-101123	MW-11-100423	MW-12-100423	MW-13-100523	MW-14-100523	MW-15-100423	TK-6-100523	
Sample Date:	10/11/2023	10/04/2023	10/04/2023	10/05/2023	10/05/2023	10/04/2023	10/05/2023	
Unit								
	nmol/L	--	10.9	1.2 J	2.0	1.5 J	1.9 J	--
	µg/L	10000 U	18000	81000	63000	57000	81000	42000
	µg/L	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
	µg/L	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U
	µg/L	4.0 U	19	340	2.3 J	370	4.0 U	4.0 U
mg/L	0.050 U	0.28	8.5	0.18	1.7	0.050 U	0.050 U	
mg/L	24.5	36.3	51.3	41.9	146	38.3	102	
mg/L	0.0030 U	0.10	6.1	1.6	1.2	0.32	0.0041	
mg/L	7.8	8.9	6.2	9.8	12.3	4.1	2.5	
mg/L	136	135	1530	962	1710	296	1450	
mg/L	--	5.0 U	20.0 U	20.0 U	50.0 U	10.0 U	--	
mg/L	--	5.0 U	20.0 U	20.0 U	50.0 U	10.0 U	--	
mg/L	157 J-	257 J-	395 J-	488	414	443 J-	320	
mg/L	0.020 U	0.25	1.5	0.16	0.65	0.020 U	0.020 UJ	
mg/L	--	5.0 U	20.0 U	20.0 U	50.0 U	10.0 U	--	
mg/L	134	218	2250	1600	3480	512	2450	
mg/L	--	5.0 U	20.0 U	20.0 U	50.0 U	10.0 U	--	
mg/L	0.81	0.036 J	0.025 J	0.21	0.050 U	0.28	0.87	
mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	

Table 2

Analytical Results Summary
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Location ID:	MW-10-3	MW-11	MW-12	MW-13	MW-14	MW-15	TK-6
Sample Name:	MW-10-3-101123	MW-11-100423	MW-12-100423	MW-13-100523	MW-14-100523	MW-15-100423	TK-6-100523
Sample Date:	10/11/2023	10/04/2023	10/04/2023	10/05/2023	10/05/2023	10/04/2023	10/05/2023

Parameters	Unit							
General Chemistry (Continued)								
Nitrite/Nitrate	mg/L	0.81	0.050 U	0.050 U	0.25 J+	0.050 U	0.30	0.90 J+
Propionic acid	mg/L	--	5.0 U	20.0 U	20.0 U	50.0 U	10.0 U	--
Pyruvic acid	mg/L	--	7.5 U	30.0 U	30.0 U	75.0 U	15.0 U	--
Sulfate	mg/L	191	112	130	99.3	97.4 J	57.2	135
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	0.86 J	1.7	5.1	2.9	3.7	2.1	1.2

Notes:

"--" - Not analyzed

J - Estimated concentration

J- - Estimated concentration; implied low bias

J+ - Estimated concentration; implied high bias

R - Rejected

U - Not detected at the associated reporting limit

UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOCs	SW-846 8260B	Groundwater	-	14
SVOCs	SW8270	Groundwater	7	40
Dissolved Gases	RSK 175	Groundwater	-	14
Dissolved Gases (Hydrogen)	AM20GAX	Groundwater	-	14
Metals	SW6010C	Groundwater	-	180
Anions (Chloride, Sulfate)	E300	Groundwater	-	28
Ammonia	E350.1	Groundwater	-	28
Nitrate/Nitrite	E353.2	Groundwater	-	48 Hours
Sulfide	SM4500-S2-F	Groundwater	-	7
TOC	SW9060	Groundwater	-	28
VFAs	VFA	Groundwater	-	28
Alkalinity	SM 2320 B	Groundwater	-	14

Notes:

VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
TOC - Total Organic Compounds
VFAs - Volatile Fatty Acids
"-" - 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
RSK 175 - EPA Internal Standard Operating Procedure #175 dated 8/11/94 by Bryan Newell at the USEPA R.S. Kerr Laboratory

Table 4

Qualified Sample Data Due To Sample Holding Time Violations
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Sample ID	Holding Time (Hours)	Holding Time Criteria (Hours)	Analyte	Qualified Result	Units
General Chemistry	MW-7-P-1-101823	>48	48	Nitrate (as N)	0.038 J-	mg/L
				Nitrite (as N)	R	
				Nitrite/Nitrate	0.038 J-	mg/L

Notes:

- J- - Estimated concentration; implied low bias
R - Rejected

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
General Chemistry	Nitrite (as N)	10/05/2023	0.0229 J	MW-15-100423	0.023 J	0.050 U	mg/L
General Chemistry	Nitrite/Nitrate	10/05/2023	0.0237 J	MW-11-100423	0.036 J	0.050 U	mg/L
	Nitrite/Nitrate	10/05/2023	0.0237 J	MW-12-100423	0.025 J	0.050 U	mg/L
General Chemistry	Nitrite (as N)	10/06/2023	0.0390 J	MW-13-100523	0.042 J	0.050 U	mg/L
	Nitrite (as N)	10/06/2023	0.0390 J	MW-6-F-8-100623	0.044 J	0.050 U	mg/L
	Nitrite (as N)	10/06/2023	0.0390 J	MW-9-101-A-100623	0.041 J	0.050 U	mg/L
	Nitrite (as N)	10/06/2023	0.0390 J	TK-6-100523	0.035 J	0.050 U	mg/L
Metals	Manganese	10/14/2023	0.000540 J	MW-10-3-101123	0.0013 J	0.0030 U	mg/L

Notes:

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

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Sample ID	Analyte	MS	MSD	RPD	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
					(percent)				
Dissolved Gases	MW-10-2-101323	Ethene	167	155	3	75 - 129	50	88 J	µg/L
	MW-10-2-101323	Methane	211	177	6	38 - 150	50	72 J	µg/L
VOCs	MW-8-2-100923	cis-1,2-Dichloroethene	0	0	5	74 - 124	15	R	
	MW-7-8-101723	cis-1,2-Dichloroethene	70	68	1	74 - 124	15	410 J	µg/L
	MW-7-8-101723	Tetrachloroethene	45	31	4	74 - 122	20	710 J	µg/L
	MW-7-8-101723	Vinyl chloride	43	37	2	65 - 133	15	590 J	µg/L
General Chemistry	MW-10-100323	Alkalinity, total (as CaCO ₃)	53	-	-	60 - 140	-	389 J-	mg/L
	MW-11-100423	Alkalinity, total (as CaCO ₃)	53	-	-	60 - 140	-	257 J-	mg/L
	MW-12-100423	Alkalinity, total (as CaCO ₃)	53	-	-	60 - 140	-	395 J-	mg/L
	MW-15-100423	Alkalinity, total (as CaCO ₃)	53	-	-	60 - 140	-	443 J-	mg/L
	MW-4-100323	Alkalinity, total (as CaCO ₃)	53	-	-	60 - 140	-	330 J-	mg/L
	MW-13-100523	Nitrite/Nitrate	116	-	-	90 - 110	-	0.25 J+	mg/L
	MW-6-F-8-100623	Nitrite/Nitrate	116	-	-	90 - 110	-	0.19 J+	mg/L
	MW-9-101-A-100623	Nitrite/Nitrate	116	-	-	90 - 110	-	0.17 J+	mg/L
	TK-6-100523	Nitrite/Nitrate	116	-	-	90 - 110	-	0.90 J+	mg/L
	DUPE-101023	Ammonia-N	89	83	3	90 - 110	20	0.18 J-	mg/L
	MW-6-F-8-100623	Ammonia-N	89	83	3	90 - 110	20	0.076 J-	mg/L
	MW-7-6-101023	Ammonia-N	89	83	3	90 - 110	20	0.071 J-	mg/L
	MW-7-C-2-101023	Ammonia-N	89	83	3	90 - 110	20	0.18 J-	mg/L

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Sample ID	Analyte	MS	MSD	RPD	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
					(percent)				
General Chemistry	MW-8-003-B-101023	Ammonia-N	89	83	3	90 - 110	20	0.16 J-	mg/L
	MW-8-1-100923	Ammonia-N	89	83	3	90 - 110	20	1.2 J-	mg/L
	MW-8-2-100923	Ammonia-N	89	83	3	90 - 110	20	0.31 J-	mg/L
	MW-8-3-101023	Ammonia-N	89	83	3	90 - 110	20	5.2 J-	mg/L
	TK-6-100523	Ammonia-N	89	83	3	90 - 110	20	0.020 UJ	mg/L
	DUPE-101023	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	294 J-	mg/L
	MW-10-3-101123	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	157 J-	mg/L
	MW-7-1R-101123	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	337 J-	mg/L
	MW-7-3-101123	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	434 J-	mg/L
	MW-7-6-101023	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	327 J-	mg/L
	MW-7-C-2-101023	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	338 J-	mg/L
	MW-8-003-B-101023	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	279 J-	mg/L
	MW-8-3-101023	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	235 J-	mg/L
	MW-8-4-101123	Alkalinity, total (as CaCO3)	90	-	-	60 - 140	-	332 J-	mg/L
	MW-10-2-101323	Alkalinity, total (as CaCO3)	34	0	14	60 - 140	20	238 J-	mg/L
	MW-7-7-101323	Alkalinity, total (as CaCO3)	34	0	14	60 - 140	20	298 J-	mg/L
	DUPE-2-101923	Nitrite (as N)	79	-	-	90 - 110	-	0.099 J-	mg/L
	MW-7-5-101923	Nitrite (as N)	79	-	-	90 - 110	-	0.10 J-	mg/L
	MW-7-2-101723	Alkalinity, total (as CaCO3)	56	-	-	60 - 140	-	362 J-	mg/L
	MW-7-8-101723	Alkalinity, total (as CaCO3)	56	-	-	60 - 140	-	108 J-	mg/L
	MW-9-12-101723	Alkalinity, total (as CaCO3)	56	-	-	60 - 140	-	331 J-	mg/L

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Parameter	Sample ID	Analyte	MS	MSD	RPD	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
					(percent)				
General Chemistry	DUPE-2-101923	Alkalinity, total (as CaCO ₃)	56	-	-	60 - 140	-	440 J-	mg/L
	MW-7-4-101823	Alkalinity, total (as CaCO ₃)	56	-	-	60 - 140	-	384 J-	mg/L
	MW-7-5-101923	Alkalinity, total (as CaCO ₃)	56	-	-	60 - 140	-	464 J-	mg/L
	MW-7-A-6-101923	Alkalinity, total (as CaCO ₃)	56	-	-	60 - 140	-	516 J-	mg/L
	MW-7-P-1-101823	Alkalinity, total (as CaCO ₃)	56	-	-	60 - 140	-	132 J-	mg/L

Notes:

MS	- Matrix Spike
MSD	- Matrix Spike Duplicate
RPD	- Relative Percent Difference
J	- Estimated concentration
J+	- Estimated concentration; implied high bias
J-	- Estimated concentration; implied low bias
UJ	- Not detected; associated reporting limit is estimated
R	- Rejected
"-"	- Not applicable
VOCs	- Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Variability in Field Duplicate Results
Routine Groundwater Quality Monitoring 2023
GM - Lockport Facility
Lockport, New York
October 2023

Sample Delivery Group	Parameter	Analyte	RPD/Diff	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
4802133922	VOCs	Tetrachloroethene	60 6500	MW-7-5-101923	7500 J	DUPE-2-101923	14000 J	µg/L

Notes:

Diff	- Difference (i.e., >1X RL for waters)
RPD	- Relative Percent Difference
J	- Estimated concentration
VOCs	- Volatile Organic Compounds



APPENDIX D

EPA cVOC MONITORED NATURAL ATTENUATION RANKING SYSTEM

EPA cVOC MONITORED NATURAL ATTENUATION RANKING SYSTEM

2023 Strength of Evidence Scorecard
GM Components Holdings, LLC
NYSDEC Site # C932138
Lockport, New York

Analysis	Concentration in Most Contaminated Zone	Value	MW-7-1R	MW-7-2	MW-7-3	MW-7-4	MW-7-5	MW-7-6	MW-7-7	MW-7-8	MW-7-A-6	MW-7-C-2	MW-7-P-1	MW-6-1	MW-6-2	MW-6-F-8	MW-8-1	MW-8-2	MW-8-3	MW-8-4	MW-8-003-B	MW-9-101A	MW-9-12	TK-6	MW-10-1	MW-10-2	MW-10-3
DO	<0.5 mg/L	3	0	0	0	0	0	0	3	0	0	0	0	0	0	-3	0	0	-3	0	0	0	0	0	0	0	0
DO	>5 mg/l	-3																									
Nitrate	<1 mg/L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Iron II	>1 mg/l	2	0	0	2	0	0	0	0	2	2	0	2	2	0	0	0	2	0	0	0	0	0	0	2	0	0
Sulfate	<20 mg/L	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfide	>1 mg/L	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Methane	<0.5 mg/L	0	3	0	3	0	3	3	3	3	3	3	3	3	0	0	3	3	3	3	0	0	3	0	3	3	0
Methane	>0.5 mg/L	3																									
ORP	<50 mV	1	0	0	1	1	1	1	2	1	1	1	2	2	1	0	2	2	1	1	0	0	1	0	1	1	1
ORP	<-100 mV	2																									
pH	5> pH <9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pH	pH<5 or pH >10	-2																									
TOC	>20 mg/L	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temp	> 20°C	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	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	0
Alkalinity	>2 times background (356)	1	0	1	1	1	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	>2 times background (2,195)	2	2	0	2	0	2	2	2	2	0	0	2	0	0	0	0	0	0	0	2	2	2	0	2	0	2
Hydrogen	>1 nM	3																									
Hydrogen	<1nM	0																									
Volatile Fatty Acids	>0.1 mg/L	2																									
BTEX	>0.1 mg/L	2																									
PCE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCE	If Daughter Product	2	0	0	0	2	2	2	2	2	2	0	0	0	0	2	2	2	2	2	2	2	2	0	0	2	2
DCE	If Daughter Product	2	0	0	0	0	2	2	2	2	2	2	2	0	0	0	0	2	0	2	2	2	0	0	0	0	2
VC	If Daughter Product	2	0	0	0	0	0	2	2	2	2	2	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
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	3	0	3	3	3	3	0	0	0	3	0	0	0	0	0	0	0	3	3	0
	>0.1 mg/L	3																									
Chloroform	If Daughter Product	2																									
Dichloromethane	If Daughter Product	2																									
		SCORE	8	4	12	7	14	18	22	20	21	14	18	11	5	3	16	16	6	15	8	7	7	6	15	18	7
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
October 2, 2023

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	0.0	6.40	609.33	602.93	26.11	Hard	OK	2" PVC	Yes	J-Plug	
MW-6-1	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	5.52	598.23	592.71	18.79	Hard	OK	2" PVC	Yes	J-Plug	
MW-15	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	7.85	594.04	586.19	16.92	Hard	OK	2" PVC	Yes	slip on	
MW-11	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	6.12	590.16	584.04	15.17	Hard	OK	2" PVC	Yes	slip on	
MW-13	Flush Mount	Good	Good	Good	NA	N/A	Good	0.0	6.31	589.02	582.71	14.08	Hard	OK	2" PVC	Yes	J-Plug	Protective steel casing flooded.
MW-14	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	6.90	592.77	585.87	21.39	Hard	OK	2" PVC	Yes	J-Plug	
MW-12	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	5.70	590.71	585.01	16.40	Hard	OK	2" PVC	Yes	slip on	
MW-7-3	Flush Mount	Good	Good	Good	NA	N/A	Good	0.0	5.32	593.03	587.71	24.94	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-1R	Flush Mount	Good	Good	Good	NA	N/A	Good	0.0	5.03	596.96	591.93	22.48	Soft	OK	2" PVC	Yes	J-Plug	
MW-7-2	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	8.24	592.57	584.33	21.64	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-4	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	11.93	593.53	581.60	21.42	Hard	OK	2" PVC	Yes	J-Plug	
MW-4	Stick-Up	Good	Good	N/A	Yes	Good	Good	2.7	9.74	613.07	603.33	34.93	Hard	OK	2" PVC	Yes	slip on	
MW-10	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	15.35	604.70	589.35	23.70	Hard	OK	2" PVC	No	slip on	No cap
MW-8-4	Flush Mount	Good	Good	Broken	NA	N/A	Good	0.0	8.88	613.01	604.13	21.40	Relatively hard	OK	2" PVC	Yes	J-Plug	Rusted casing, no connection lid to box. Sediment infiltrated casing, kept out of well by J-Plug.
MW-8-2	Flush Mount	Good	Good	Good	NA	N/A	Good	0.4	7.73	615.14	607.41	22.78	Hard	OK	2" PVC	Yes	slip on	
MW-8-3	Flush Mount	Good	Good	Good	NA	N/A	Good	0.2	8.92	615.08	606.16	22.08	Hard	OK	2" PVC	Yes	slip on	
MW-8-1	Flush Mount	Good	Good	Good	NA	N/A	Good	0.0	5.62	615.11	609.49	20.10	Soft	OK	2" PVC	Yes	J-Plug	
MW-8-003-B	Flush Mount	Good	Good	Broken	NA	N/A	Good	37.2	4.95	610.94	605.99	14.32	Hard	OK	2" PVC	Yes	J-Plug	One missing bolt and bolt connection to ground.
MW-7-C-2	Flush Mount	Good	Good	Good	NA	N/A	Good	0.7	6.36	608.96	602.60	21.05	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-6	Flush Mount	Good	Good	Good	NA	N/A	Good	1.5	4.35	606.30	601.95	16.52	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-5	Flush Mount	Good	Good	Good	NA	N/A	Good	0.1	8.21	610.96	602.75	21.93	Hard	OK	2" PVC	Yes	slip on	
MW-7-P-1	Flush Mount	Good	Good	Good	NA	N/A	Good	0.9	9.54	615.09	605.55	19.88	Hard	OK	2" PVC	Yes	J-Plug	
MW-7-8	Flush Mount	Good	Good	Good	NA	N/A	Good	16.8	2.45	610.92	608.47	19.43	Hard	OK	2" PVC	Yes	J-Plug	One missing bolt connection to ground.
MW-7-A-6	Flush Mount	Good	Good	Broken	NA	N/A	Good	411.8	3.25	610.72	607.47	14.00	Soft	OK	2" PVC	Yes	J-Plug	Missing gasket
MW-10-2	Flush Mount	Good	Good	Good	NA	N/A	Good	0.1	3.58	611.26	607.68	16.09	Hard	OK	2" PVC	Yes	slip on	
MW-7-7	Flush Mount	Good	Good	Good	NA	N/A	Good	684.3	3.35	610.24	606.89	22.07	Hard	OK	2" PVC	Yes	J-Plug	Well casing flooded. Kept out by J-Plug
MW-10-3	Flush Mount	Good	Good	Good	NA	N/A	Good	0.3	3.02	610.40	607.38	15.40	Hard	OK	2" PVC	Yes	J-Plug	
MW-9-101-A	Flush Mount	Good	Good	Good	NA	N/A	Good	0.0	5.25	613.53	608.28	12.21	Hard	OK	2" PVC	Yes	J-Plug	No bolt connections.
MW-9-12	Flush Mount	Good	Good	Broken	NA	N/A	Good	0.0	7.67	614.92	607.25	15.51	Hard	OK	2" PVC	Yes	J-Plug	Missing gasket, casing flooded.
TK-6	Stick-Up	Good	Good	N/A	Yes	Good	Good	0.0	10.84	621.69	610.85	13.22	Hard	OK	4" PVC	Yes	J-Plug	
BLDG10 MW-1	Flush Mount	Good	Good	Good	NA	N/A	Good	116.6	6.11	615.05	608.94	15.53	Hard	OK	2" PVC	Yes	J-Plug	
MW-7	Stick-Up	Good	Good	N/A	Yes	Good	Good	186.6	8.24	613.86	605.62	28.97	Hard	OK	2" PVC	Yes	slip on	
MW-6-F-8	Flush Mount	Good	Good	Good	NA	N/A	Broken	0.0	7.79	612.26	604.47	14.33	Hard	OK	2" PVC	Yes	J-Plug	Top of curb box rusted through. Sediment to top of casing.
MW-9	Stick-Up	Good	Good	Good	Yes	Good	Good	0.5	9.76	604.90	595.14	17.17	Hard	OK	2" PVC	Yes	J-Plug	
MW-5	Stick-Up	None	Good	Good	Yes	Good	Good	0.0	7.12	609.05	601.93	28.54	Hard	OK	2" PVC	NO	-	Not well tag or cap
MW-3S	Stick-Up	Good	Good	Good	Yes	Good	Good	3.1	8.51	613.28	604.77	28.90	Hard	OK	2" PVC	YES	PVC	
MW-3D	Stick-Up	Good	Good	Good	Yes	Good	Good	0.0	42.91	614.81	571.90	72.57	Relatively soft	OK	2" PVC	YES	PVC	



APPENDIX F

EUROFINS TEST AMERICA ANALYTICAL LABORATORY REPORTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Arcuri
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Generated 11/16/2023 12:29:05 PM

JOB DESCRIPTION

058507, GM Lockport SSOW 256043
BCP

JOB NUMBER

480-213392-2

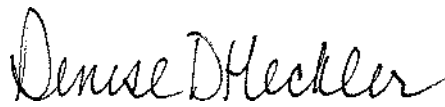
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
11/16/2023 12:29:05 PM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	10
Client Sample Results	21
Surrogate Summary	49
QC Sample Results	51
QC Association Summary	106
Lab Chronicle	129
Certification Summary	144
Method Summary	145
Sample Summary	146
Chain of Custody	147
Receipt Checklists	174



Definitions/Glossary

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

Job ID: 480-213392-2
SDG: BCP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Eurofins Buffalo

Definitions/Glossary

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

Job ID: 480-213392-2
SDG: BCP

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 480-213392-2
SDG: BCP

Job ID: 480-213392-2

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-213392-2

Receipt

The samples were received on 10/5/2023 4:30 PM, 10/6/2023 2:10 PM, 10/9/2023 4:15 PM, 10/10/2023 6:50 PM, 10/11/2023 4:11 PM, 10/13/2023 3:30 PM, 10/16/2023 6:00 PM, 10/17/2023 3:40 PM, 10/18/2023 1:45 PM and 10/19/2023 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 3.1° C, 3.3° C, 3.5° C, 4.1° C, 5.8° C, 6.6° C, 7.0° C, 7.8° C, 8.7° C and 11.4° C. The temperatures are accepted as the samples arrived direct from the site.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): TK-6-100523 (480-213392-4).

According to the field team, sample: DUPE-2-101923 was collected at 10:00 instead of 13:00 that was listed on the COC.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: TK-6-100523 (480-213392-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8-003-B-101023 (480-213545-1), MW-7-C-2-101023 (480-213545-3), DUPE-101023 (480-213545-4) and MW-7-6-101023 (480-213545-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-8-3-101023 (480-213545-2). Elevated reporting limits (RLs) are provided.

Method 8260C: Due to the high concentration of cis-1,2-Dichloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-687016 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8-2-100923 (480-213507-2), MW-8-2-100923 (480-213507-2[MS]) and MW-8-2-100923 (480-213507-2[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7-C-2-101023 (480-213545-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-7-3-101123 (480-213591-1) and MW-7-1R-101123 (480-213591-2). Elevated reporting limits (RLs) are provided.

Method 8260C: Due to the high concentration of cis-1,2-Dichloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-687521 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10-2-101323 (480-213703-1), MW-10-2-101323 (480-213703-1[MS]), MW-10-2-101323 (480-213703-1[MSD]) and MW-7-7-101323 (480-213703-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7-7-101323 (480-213703-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BLDG-10-MW-1-101623 (480-213769-3). Elevated reporting limits (RLs) are provided.

Case Narrative

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

Job ID: 480-213392-2
SDG: BCP

Job ID: 480-213392-2 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-8-101723 (480-213811-3), (480-213811-H-3 MS) and (480-213811-H-3 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-688181 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-7-P-1-101823 (480-213871-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-5-101923 (480-213920-1) and MW-7-A-6-101923 (480-213920-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUPE-2-101923 (480-213920-3). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCSD 480-686706/3-A). These results have been reported and qualified.

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

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: TK-6-100523 (480-213392-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6-F-8-100623 (480-213439-1) and MW-9-101-A-100623 (480-213439-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8-2-100923 (480-213507-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8-003-B-101023 (480-213545-1), MW-8-3-101023 (480-213545-2), MW-7-C-2-101023 (480-213545-3), DUPE-101023 (480-213545-4) and MW-7-6-101023 (480-213545-5). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8-1-100923 (480-213507-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-3-101123 (480-213591-1), MW-7-1R-101123 (480-213591-2), MW-8-4-101123 (480-213591-3) and MW-10-3-101123 (480-213591-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10-2-101323 (480-213703-1) and MW-7-7-101323 (480-213703-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6-1-101623 (480-213769-1), MW-6-2-101623 (480-213769-2), BLDG-10-MW-1-101623 (480-213769-3), MW-9-12-101723 (480-213811-1), MW-7-2-101723 (480-213811-2) and MW-7-8-101723 (480-213811-3). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range:

Case Narrative

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

Job ID: 480-213392-2
SDG: BCP

Job ID: 480-213392-2 (Continued)

Laboratory: Eurofins Buffalo (Continued)

MW-7-P-1-101823 (480-213871-1) and MW-7-4-101823 (480-213871-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-7-5-101923 (480-213920-1), MW-7-A-6-101923 (480-213920-2) and DUPE-2-101923 (480-213920-3). Elevated reporting limits (RLs) are provided.

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

GC VOA

Method RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-686896 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8-2-100923 (480-213507-2), MW-8-2-100923 (480-213507-2[MS]) and MW-8-2-100923 (480-213507-2[MSD]). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-8-4-101123 (480-213591-3). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7-7-101323 (480-213703-2). Elevated reporting limits (RLs) are provided.

Method RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-687555 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7-P-1-101823 (480-213871-1). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7-A-6-101923 (480-213920-2). 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 480-688349/20) recovered above the upper control limit for Total Potassium. 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 (LCS 480-687861/2-A) and (MB 480-687861/1-A) was not performed.

Method 6010C: The low level continuing calibration verification (CCVL 480-688802/52) recovered above the upper control limit 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-A-6-101923 (480-213920-2) was not performed.

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

General Chemistry

Method SM 2320B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 687432 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 2320B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 687696 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

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

Job ID: 480-213392-2
SDG: BCP

Job ID: 480-213392-2 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-7-P-1-101823 (480-213871-1).

Method 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-7-P-1-101823 (480-213871-1) and MW-7-4-101823 (480-213871-2).

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

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 480-686706.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-688004.

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 256043

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TK-6-100523

Lab Sample ID: 480-213392-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	42000		10000	10000	ug/L	1		RSK-175	Total/NA
Magnesium	102		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0041	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1450		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2450		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	135		100	17.5	mg/L	50		300.0	Total/NA
Nitrate	0.87		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.90		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.035	J B	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	320		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6-F-8-100623

Lab Sample ID: 480-213439-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.67	J	1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	28000		10000	10000	ug/L	1		RSK-175	Total/NA
Iron	0.19		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	53.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.17	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	777		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1530		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	175		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.076		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.15		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.19	F1	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.044	J B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	4.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	289		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-9-101-A-100623

Lab Sample ID: 480-213439-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	37000		10000	10000	ug/L	1		RSK-175	Total/NA
Magnesium	109		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.047	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	24.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1920		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3210		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	1150		100	17.5	mg/L	50		300.0	Total/NA
Nitrate	0.13		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.17		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.041	J B	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	4.4		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	276		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-1-100923

Lab Sample ID: 480-213507-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.0		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	58000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	15		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane	160		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.034	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	121		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	19.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	614		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1320		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	869		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
Total Alkalinity	276	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	6.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: MW-8-2-100923

Lab Sample ID: 480-213507-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7700	F1	100	81	ug/L	100		8260C	Total/NA
Trichloroethene	1400		100	46	ug/L	100		8260C	Total/NA
Vinyl chloride	470		100	90	ug/L	100		8260C	Total/NA
Carbon dioxide	44000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	350	F1	44	11	ug/L	11		RSK-175	Total/NA
Iron	4.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	41.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.52	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	9.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	74.1		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	158		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	62.3		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.31	F1	0.020	0.0090	mg/L	1		350.1	Total/NA
Total Alkalinity	343	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213507-3

No Detections.

Client Sample ID: MW-8-003-B-101023

Lab Sample ID: 480-213545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		50	41	ug/L	50		8260C	Total/NA
Tetrachloroethene	1200		50	18	ug/L	50		8260C	Total/NA
Trichloroethene	330		50	23	ug/L	50		8260C	Total/NA
Iron	0.12		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	11.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.56		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2070		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2900		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	106		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.16		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.062		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.11		0.050	0.020	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-003-B-101023 (Continued)

Lab Sample ID: 480-213545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrite	0.048	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	279		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-3-101023

Lab Sample ID: 480-213545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	7.9		2.0	0.92	ug/L	2		8260C	Total/NA
Carbon dioxide	45000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	35		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.047	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	60.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	414		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	362		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1790		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	73.9		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	0.21		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.26		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.047	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	8.0		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: MW-7-C-2-101023

Lab Sample ID: 480-213545-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	81		5.0	4.5	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	540		10	8.1	ug/L	10		8260C	Total/NA
Carbon dioxide	53000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethene	8.1		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	320		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.58		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	133		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.35		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	118		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	178		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	860		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.18		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	0.89	J	1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	338		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DUPE-101023

Lab Sample ID: 480-213545-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		50	41	ug/L	50		8260C	Total/NA
Tetrachloroethene	1800		50	18	ug/L	50		8260C	Total/NA
Trichloroethene	380		50	23	ug/L	50		8260C	Total/NA
Carbon dioxide	11000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethene	7.1		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	4.7		4.0	1.0	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: DUPE-101023 (Continued)

Lab Sample ID: 480-213545-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.10		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	10.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.47		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2030		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2880		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	106		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.18		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.055		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.099		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.044	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	294		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-6-101023

Lab Sample ID: 480-213545-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	630		10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	560		10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	310		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	9.2	J	10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	44000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	7.8		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane	250		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.13		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	84.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.32		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	13.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	3480		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	5830		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	274		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.071		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	327		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213545-6

No Detections.

Client Sample ID: MW-7-3-101123

Lab Sample ID: 480-213591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	94000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	300		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	7.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	111		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	25.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	4950		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	8240		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	771		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	1.6		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.038	J	0.050	0.020	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-3-101123 (Continued)

Lab Sample ID: 480-213591-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.038	J	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	434		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-1R-101123

Lab Sample ID: 480-213591-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	67000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	33		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	126		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.87	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.7		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1230		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2720		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	132		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.050		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	337		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8-4-101123

Lab Sample ID: 480-213591-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	46		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	24		1.0	0.90	ug/L	1		8260C	Total/NA
Carbon dioxide	27000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane - DL	530		44	11	ug/L	11		RSK-175	Total/NA
Iron	0.38		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	44.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.29	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	13.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2220		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3220		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	297		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.057		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.021	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.021	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	332		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-10-3-101123

Lab Sample ID: 480-213591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	4.9		1.0	0.46	ug/L	1		8260C	Total/NA
Magnesium	24.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0013	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	7.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	136		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	134		2.5	1.4	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-10-3-101123 (Continued)

Lab Sample ID: 480-213591-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	191		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate	0.81		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.81		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	0.86	J	1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	157	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213591-5

No Detections.

Client Sample ID: MW-10-2-101323

Lab Sample ID: 480-213703-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	430	F1	5.0	4.1	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	8.2		5.0	4.5	ug/L	5		8260C	Total/NA
Trichloroethene	3.6	J	5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	180		5.0	4.5	ug/L	5		8260C	Total/NA
Carbon dioxide	23000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	6.9	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	88	F1	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	72	F1	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.78	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	50.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.23		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	8.9	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1390		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	2250		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	180		40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.30		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	238	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-7-101323

Lab Sample ID: 480-213703-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36000		1000	810	ug/L	1000		8260C	Total/NA
Trichloroethene	20000		1000	460	ug/L	1000		8260C	Total/NA
Vinyl chloride	6000		1000	900	ug/L	1000		8260C	Total/NA
Tetrachloroethene - DL	100000		2000	720	ug/L	2000		8260C	Total/NA
Carbon dioxide	56000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethene	420		310	66	ug/L	44		RSK-175	Total/NA
Methane	870		180	44	ug/L	44		RSK-175	Total/NA
Iron	0.11	B	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	151		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.036		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	39.6	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1550		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	3410		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	482		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	3.2		0.040	0.018	mg/L	2		350.1	Total/NA
Total Organic Carbon	10.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	298		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Sulfide	3.2		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213703-3

No Detections.

Client Sample ID: MW-6-1-101623

Lab Sample ID: 480-213769-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	120000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	220		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	24.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	63.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	4.8		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.0	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	577		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1100		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	29.8		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	1.7		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	7.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	512	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-6-2-101623

Lab Sample ID: 480-213769-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	57000		10000	10000	ug/L	1		RSK-175	Total/NA
Iron	0.16		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	50.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.35		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	677		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1450		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	101		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.025		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.9		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	436	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: BLDG-10-MW-1-101623

Lab Sample ID: 480-213769-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	170000		5000	1800	ug/L	5000		8260C	Total/NA
Trichloroethene	5100		5000	2300	ug/L	5000		8260C	Total/NA
Carbon dioxide	74000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethene	1.5	J	7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	3.7	J	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	1.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	103		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.70		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.6	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	134		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	570		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	231		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.16		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	4.7		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	310	B	5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213769-4

No Detections.

Client Sample ID: MW-9-12-101723

Lab Sample ID: 480-213811-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	30000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	17		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	34.4		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	5.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	676		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1040		5.0	2.8	mg/L	10		300.0	Total/NA
Sulfate	119		20.0	3.5	mg/L	10		300.0	Total/NA
Ammonia	0.12		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.14		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.14		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.5		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	331	F1	5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-2-101723

Lab Sample ID: 480-213811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	38000		10000	10000	ug/L	1		RSK-175	Total/NA
Iron	0.021	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	35.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0059	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	104		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	181		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	23.2		10.0	1.7	mg/L	5		300.0	Total/NA
Total Organic Carbon	1.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	362		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-8-101723

Lab Sample ID: 480-213811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	410	F1	10	8.1	ug/L	10		8260C	Total/NA
Tetrachloroethene	710	F1	10	3.6	ug/L	10		8260C	Total/NA
Trichloroethene	220		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	590	F1	10	9.0	ug/L	10		8260C	Total/NA
Carbon dioxide	43000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	54		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	21		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane	150		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	18.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	180		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.99	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	39.4	^+	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2740		5.0	1.6	mg/L	5		6010C	Total/NA
Chloride	5060		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	235		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.81		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

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-8-101723 (Continued)

Lab Sample ID: 480-213811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	108		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213811-4

No Detections.

Client Sample ID: MW-7-P-1-101823

Lab Sample ID: 480-213871-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2.4		2.0	1.8	ug/L	2		8260C	Total/NA
Carbon dioxide	110000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	34		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	6100		88	22	ug/L	22		RSK-175	Total/NA
Iron	94.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	344		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	4.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	39.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	163		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	3560		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	23.5 J		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	197		4.0	1.8	mg/L	200		350.1	Total/NA
Nitrate	0.038 J H		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.038 J H B F 1		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	132		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-4-101823

Lab Sample ID: 480-213871-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.3		1.0	0.46	ug/L	1		8260C	Total/NA
Carbon dioxide	43000		10000	10000	ug/L	1		RSK-175	Total/NA
Iron	0.075		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	42.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0068		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	255		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	442		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	57.9		10.0	1.7	mg/L	5		300.0	Total/NA
Ammonia	0.017 J		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.045 J		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	0.045 J B		0.050	0.020	mg/L	1		353.2	Total/NA
Total Alkalinity	384		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213871-3

No Detections.

Client Sample ID: MW-7-5-101923

Lab Sample ID: 480-213920-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		200	160	ug/L	200		8260C	Total/NA
Tetrachloroethene	7500		200	72	ug/L	200		8260C	Total/NA
Trichloroethene	1200		200	92	ug/L	200		8260C	Total/NA
Carbon dioxide	96000		10000	10000	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-5-101923 (Continued)

Lab Sample ID: 480-213920-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	12		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.14		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	106		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	15.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2600		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	5610		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	507		100	17.5	mg/L	50		300.0	Total/NA
Ammonia	0.081		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	0.90		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	1.0	B	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.10	F1	0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	8.2		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	464		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7-A-6-101923

Lab Sample ID: 480-213920-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	95000		2000	1600	ug/L	2000		8260C	Total/NA
Tetrachloroethene	64000		2000	720	ug/L	2000		8260C	Total/NA
Trichloroethene	13000		2000	920	ug/L	2000		8260C	Total/NA
Vinyl chloride	72000		2000	1800	ug/L	2000		8260C	Total/NA
Carbon dioxide	300000		10000	10000	ug/L	1		RSK-175	Total/NA
Ethane	140		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene - DL	5500		150	33	ug/L	22		RSK-175	Total/NA
Methane - DL	1400		88	22	ug/L	22		RSK-175	Total/NA
Iron	16.8		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	142		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	2.0		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	481	^+	1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	1420		10.0	5.6	mg/L	20		300.0	Total/NA
Sulfate	25.0	J	40.0	7.0	mg/L	20		300.0	Total/NA
Ammonia	0.15		0.020	0.0090	mg/L	1		350.1	Total/NA
Total Organic Carbon	26.3		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	516		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DUPE-2-101923

Lab Sample ID: 480-213920-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1500		200	160	ug/L	200		8260C	Total/NA
Tetrachloroethene	14000		200	72	ug/L	200		8260C	Total/NA
Trichloroethene	1900		200	92	ug/L	200		8260C	Total/NA
Carbon dioxide	100000		10000	10000	ug/L	1		RSK-175	Total/NA
Methane	9.9		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.10		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	93.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.99		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	10.7		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	2840		10.0	3.2	mg/L	10		6010C	Total/NA
Chloride	5490		25.0	14.1	mg/L	50		300.0	Total/NA
Sulfate	497		100	17.5	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: DUPE-2-101923 (Continued)

Lab Sample ID: 480-213920-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.081		0.020	0.0090	mg/L	1		350.1	Total/NA
Nitrate	1.0		0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate Nitrite as N	1.1	B	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrite	0.099		0.050	0.020	mg/L	1		353.2	Total/NA
Total Organic Carbon	6.8		1.0	0.43	mg/L	1		9060A	Total/NA
Total Alkalinity	440		5.0	0.79	mg/L	1		SM 2320B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213920-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TK-6-100523

Lab Sample ID: 480-213392-4

Date Collected: 10/05/23 15:30

Matrix: Water

Date Received: 10/05/23 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/10/23 08:27	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/10/23 08:27	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/10/23 08:27	2
Trichloroethene	ND		2.0	0.92	ug/L			10/10/23 08:27	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/10/23 08:27	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/10/23 08:27	2
4-Bromofluorobenzene (Surr)	96		73 - 120		10/10/23 08:27	2
Toluene-d8 (Surr)	100		80 - 120		10/10/23 08:27	2
Dibromofluoromethane (Surr)	99		75 - 123		10/10/23 08:27	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	42000		10000	10000	ug/L			10/14/23 13:13	1
Ethane	ND		7.5	1.5	ug/L			10/06/23 14:32	1
Ethene	ND		7.0	1.5	ug/L			10/06/23 14:32	1
Methane	ND		4.0	1.0	ug/L			10/06/23 14:32	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/10/23 08:37	10/20/23 14:42	1
Magnesium	102		0.20	0.043	mg/L		10/10/23 08:37	10/20/23 14:42	1
Manganese	0.0041	B	0.0030	0.00040	mg/L		10/10/23 08:37	10/20/23 14:42	1
Potassium	2.5		0.50	0.10	mg/L		10/10/23 08:37	10/20/23 14:42	1
Sodium	1450		5.0	1.6	mg/L		10/10/23 08:37	10/23/23 14:19	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2450		25.0	14.1	mg/L			10/11/23 01:11	50
Sulfate (EPA 300.0)	135		100	17.5	mg/L			10/11/23 01:11	50
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/13/23 13:53	1
Nitrate (EPA 353.2)	0.87		0.050	0.020	mg/L			10/06/23 16:59	1
Nitrate Nitrite as N (EPA 353.2)	0.90		0.050	0.020	mg/L			10/06/23 16:59	1
Nitrite (EPA 353.2)	0.035	J B	0.050	0.020	mg/L			10/06/23 19:54	1
Total Organic Carbon (SW846 9060A)	1.2		1.0	0.43	mg/L			10/09/23 18:46	1
Total Alkalinity (SM 2320B)	320		5.0	0.79	mg/L			10/10/23 17:38	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/09/23 13:40	1

Client Sample ID: MW-6-F-8-100623

Lab Sample ID: 480-213439-1

Date Collected: 10/06/23 13:00

Matrix: Water

Date Received: 10/06/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/09/23 16:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/09/23 16:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/09/23 16:40	1
Trichloroethene	0.67	J	1.0	0.46	ug/L			10/09/23 16:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/09/23 16:40	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-6-F-8-100623

Lab Sample ID: 480-213439-1

Date Collected: 10/06/23 13:00

Matrix: Water

Date Received: 10/06/23 14:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/09/23 16:40	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/09/23 16:40	1
Toluene-d8 (Surr)	105		80 - 120		10/09/23 16:40	1
Dibromofluoromethane (Surr)	99		75 - 123		10/09/23 16:40	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	28000		10000	10000	ug/L			10/14/23 13:23	1
Ethane	ND		7.5	1.5	ug/L			10/10/23 09:35	1
Ethene	ND		7.0	1.5	ug/L			10/10/23 09:35	1
Methane	ND		4.0	1.0	ug/L			10/10/23 09:35	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.19		0.050	0.019	mg/L		10/09/23 08:51	10/15/23 00:19	1
Magnesium	53.1		0.20	0.043	mg/L		10/09/23 08:51	10/15/23 00:19	1
Manganese	0.17	B	0.0030	0.00040	mg/L		10/09/23 08:51	10/15/23 00:19	1
Potassium	2.3		0.50	0.10	mg/L		10/09/23 08:51	10/15/23 00:19	1
Sodium	777		1.0	0.32	mg/L		10/09/23 08:51	10/15/23 00:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1530		10.0	5.6	mg/L			10/10/23 18:39	20
Sulfate (EPA 300.0)	175		40.0	7.0	mg/L			10/10/23 18:39	20
Ammonia (EPA 350.1)	0.076		0.020	0.0090	mg/L			10/13/23 13:55	1
Nitrate (EPA 353.2)	0.15		0.050	0.020	mg/L			10/06/23 17:37	1
Nitrate Nitrite as N (EPA 353.2)	0.19	F1	0.050	0.020	mg/L			10/06/23 17:37	1
Nitrite (EPA 353.2)	0.044	J B	0.050	0.020	mg/L			10/06/23 20:14	1
Total Organic Carbon (SW846 9060A)	4.8		1.0	0.43	mg/L			10/11/23 22:06	1
Total Alkalinity (SM 2320B)	289		5.0	0.79	mg/L			10/10/23 19:04	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/09/23 13:40	1

Client Sample ID: MW-9-101-A-100623

Lab Sample ID: 480-213439-2

Date Collected: 10/06/23 11:00

Matrix: Water

Date Received: 10/06/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/09/23 17:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/09/23 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/09/23 17:03	1
Trichloroethene	1.1		1.0	0.46	ug/L			10/09/23 17:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/09/23 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/09/23 17:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/09/23 17:03	1
Toluene-d8 (Surr)	105		80 - 120		10/09/23 17:03	1
Dibromofluoromethane (Surr)	102		75 - 123		10/09/23 17:03	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-9-101-A-100623

Lab Sample ID: 480-213439-2

Date Collected: 10/06/23 11:00

Matrix: Water

Date Received: 10/06/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		10/10/23 08:51	10/12/23 00:59	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/10/23 08:51	10/12/23 00:59	1
Anthracene	ND		5.0	0.28	ug/L		10/10/23 08:51	10/12/23 00:59	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		10/10/23 08:51	10/12/23 00:59	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		10/10/23 08:51	10/12/23 00:59	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		10/10/23 08:51	10/12/23 00:59	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		10/10/23 08:51	10/12/23 00:59	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		10/10/23 08:51	10/12/23 00:59	1
Chrysene	ND		5.0	0.33	ug/L		10/10/23 08:51	10/12/23 00:59	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/10/23 08:51	10/12/23 00:59	1
Fluoranthene	ND		5.0	0.40	ug/L		10/10/23 08:51	10/12/23 00:59	1
Fluorene	ND		5.0	0.36	ug/L		10/10/23 08:51	10/12/23 00:59	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		10/10/23 08:51	10/12/23 00:59	1
Naphthalene	ND		5.0	0.76	ug/L		10/10/23 08:51	10/12/23 00:59	1
Phenanthrene	ND		5.0	0.44	ug/L		10/10/23 08:51	10/12/23 00:59	1
Pyrene	ND		5.0	0.34	ug/L		10/10/23 08:51	10/12/23 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		48 - 120				10/10/23 08:51	10/12/23 00:59	1
Nitrobenzene-d5 (Surr)	94		46 - 120				10/10/23 08:51	10/12/23 00:59	1
p-Terphenyl-d14 (Surr)	64		60 - 148				10/10/23 08:51	10/12/23 00:59	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	37000		10000	10000	ug/L			10/14/23 13:33	1
Ethane	ND		7.5	1.5	ug/L			10/10/23 09:54	1
Ethene	ND		7.0	1.5	ug/L			10/10/23 09:54	1
Methane	ND		4.0	1.0	ug/L			10/10/23 09:54	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/09/23 08:51	10/15/23 00:33	1
Magnesium	109		0.20	0.043	mg/L		10/09/23 08:51	10/15/23 00:33	1
Manganese	0.047	B	0.0030	0.00040	mg/L		10/09/23 08:51	10/15/23 00:33	1
Potassium	24.5		0.50	0.10	mg/L		10/09/23 08:51	10/15/23 00:33	1
Sodium	1920		5.0	1.6	mg/L		10/09/23 08:51	10/16/23 16:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3210		25.0	14.1	mg/L			10/10/23 20:27	50
Sulfate (EPA 300.0)	1150		100	17.5	mg/L			10/10/23 20:27	50
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/11/23 17:50	1
Nitrate (EPA 353.2)	0.13		0.050	0.020	mg/L			10/06/23 17:40	1
Nitrate Nitrite as N (EPA 353.2)	0.17		0.050	0.020	mg/L			10/06/23 17:40	1
Nitrite (EPA 353.2)	0.041	J B	0.050	0.020	mg/L			10/06/23 20:15	1
Total Organic Carbon (SW846 9060A)	4.4		1.0	0.43	mg/L			10/11/23 22:34	1
Total Alkalinity (SM 2320B)	276		5.0	0.79	mg/L			10/10/23 19:12	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/09/23 13:40	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-1-100923

Lab Sample ID: 480-213507-1

Date Collected: 10/09/23 13:45

Matrix: Water

Date Received: 10/09/23 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/23 21:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/23 21:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/23 21:24	1
Trichloroethene	1.0		1.0	0.46	ug/L			10/11/23 21:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/23 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/11/23 21:24	1
4-Bromofluorobenzene (Surr)	114		73 - 120		10/11/23 21:24	1
Toluene-d8 (Surr)	104		80 - 120		10/11/23 21:24	1
Dibromofluoromethane (Surr)	104		75 - 123		10/11/23 21:24	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	58000		10000	10000	ug/L			10/17/23 12:57	1
Ethane	15		7.5	1.5	ug/L			10/11/23 11:46	1
Ethene	ND		7.0	1.5	ug/L			10/11/23 11:46	1
Methane	160		4.0	1.0	ug/L			10/11/23 11:46	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.034	J	0.050	0.019	mg/L		10/11/23 08:37	10/11/23 22:55	1
Magnesium	121		0.20	0.043	mg/L		10/11/23 08:37	10/11/23 22:55	1
Manganese	0.11	B	0.0030	0.00040	mg/L		10/11/23 08:37	10/13/23 13:05	1
Potassium	19.1		0.50	0.10	mg/L		10/11/23 08:37	10/11/23 22:55	1
Sodium	614		1.0	0.32	mg/L		10/11/23 08:37	10/11/23 22:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1320		10.0	5.6	mg/L			10/13/23 17:07	20
Sulfate (EPA 300.0)	869		40.0	7.0	mg/L			10/13/23 17:07	20
Ammonia (EPA 350.1)	1.2		0.020	0.0090	mg/L			10/13/23 14:20	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/10/23 18:21	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/10/23 18:21	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/10/23 18:21	1
Total Organic Carbon (SW846 9060A)	ND		1.0	0.43	mg/L			10/12/23 21:06	1
Total Alkalinity (SM 2320B)	276	B	5.0	0.79	mg/L			10/13/23 01:05	1
Sulfide (SM 4500 S2 F)	6.0		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: MW-8-2-100923

Lab Sample ID: 480-213507-2

Date Collected: 10/09/23 11:30

Matrix: Water

Date Received: 10/09/23 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	7700	F1	100	81	ug/L			10/11/23 21:46	100
Tetrachloroethene	ND		100	36	ug/L			10/11/23 21:46	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/11/23 21:46	100
Trichloroethene	1400		100	46	ug/L			10/11/23 21:46	100
Vinyl chloride	470		100	90	ug/L			10/11/23 21:46	100

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-2-100923

Lab Sample ID: 480-213507-2

Date Collected: 10/09/23 11:30

Matrix: Water

Date Received: 10/09/23 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/11/23 21:46	100
4-Bromofluorobenzene (Surr)	112		73 - 120		10/11/23 21:46	100
Toluene-d8 (Surr)	107		80 - 120		10/11/23 21:46	100
Dibromofluoromethane (Surr)	103		75 - 123		10/11/23 21:46	100

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		10000	10000	ug/L			10/17/23 13:08	1
Ethane	ND		83	17	ug/L			10/11/23 10:50	11
Ethene	ND		77	17	ug/L			10/11/23 10:50	11
Methane	350	F1	44	11	ug/L			10/11/23 10:50	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.5		0.050	0.019	mg/L		10/11/23 08:37	10/11/23 22:59	1
Magnesium	41.6		0.20	0.043	mg/L		10/11/23 08:37	10/11/23 22:59	1
Manganese	0.52	B	0.0030	0.00040	mg/L		10/11/23 08:37	10/13/23 13:09	1
Potassium	9.6		0.50	0.10	mg/L		10/11/23 08:37	10/11/23 22:59	1
Sodium	74.1		1.0	0.32	mg/L		10/11/23 08:37	10/11/23 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	158		2.5	1.4	mg/L			10/13/23 01:33	5
Sulfate (EPA 300.0)	62.3		10.0	1.7	mg/L			10/13/23 01:33	5
Ammonia (EPA 350.1)	0.31	F1	0.020	0.0090	mg/L			10/13/23 14:16	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/10/23 18:05	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/10/23 18:05	1
Nitrite (EPA 353.2)	ND	F1	0.050	0.020	mg/L			10/10/23 21:56	1
Total Organic Carbon (SW846 9060A)	ND		1.0	0.43	mg/L			10/12/23 19:43	1
Total Alkalinity (SM 2320B)	343	B	5.0	0.79	mg/L			10/13/23 01:26	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213507-3

Date Collected: 10/09/23 00:00

Matrix: Water

Date Received: 10/09/23 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/23 22:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/23 22:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/23 22:07	1
Trichloroethene	ND		1.0	0.46	ug/L			10/11/23 22:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/23 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/11/23 22:07	1
4-Bromofluorobenzene (Surr)	112		73 - 120		10/11/23 22:07	1
Toluene-d8 (Surr)	109		80 - 120		10/11/23 22:07	1
Dibromofluoromethane (Surr)	106		75 - 123		10/11/23 22:07	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-003-B-101023

Lab Sample ID: 480-213545-1

Date Collected: 10/10/23 10:00

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1200		50	41	ug/L			10/12/23 04:49	50
Tetrachloroethene	1200		50	18	ug/L			10/12/23 04:49	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			10/12/23 04:49	50
Trichloroethene	330		50	23	ug/L			10/12/23 04:49	50
Vinyl chloride	ND		50	45	ug/L			10/12/23 04:49	50

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120					10/12/23 04:49	50
4-Bromofluorobenzene (Surr)	105		73 - 120					10/12/23 04:49	50
Toluene-d8 (Surr)	95		80 - 120					10/12/23 04:49	50
Dibromofluoromethane (Surr)	103		75 - 123					10/12/23 04:49	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		10000	10000	ug/L			10/18/23 13:52	1
Ethane	ND		7.5	1.5	ug/L			10/12/23 13:44	1
Ethene	ND		7.0	1.5	ug/L			10/12/23 13:44	1
Methane	ND		4.0	1.0	ug/L			10/12/23 13:44	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.050	0.019	mg/L		10/13/23 08:32	10/22/23 04:59	1
Magnesium	11.2		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 04:59	1
Manganese	0.56		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 04:59	1
Potassium	6.2		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 04:59	1
Sodium	2070		5.0	1.6	mg/L		10/13/23 08:32	10/23/23 18:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2900		10.0	5.6	mg/L			10/13/23 21:28	20
Sulfate (EPA 300.0)	106		40.0	7.0	mg/L			10/13/23 21:28	20
Ammonia (EPA 350.1)	0.16		0.020	0.0090	mg/L			10/13/23 15:24	1
Nitrate (EPA 353.2)	0.062		0.050	0.020	mg/L			10/11/23 17:57	1
Nitrate Nitrite as N (EPA 353.2)	0.11		0.050	0.020	mg/L			10/11/23 17:57	1
Nitrite (EPA 353.2)	0.048 J		0.050	0.020	mg/L			10/11/23 20:47	1
Total Organic Carbon (SW846 9060A)	1.7		1.0	0.43	mg/L			10/12/23 22:32	1
Total Alkalinity (SM 2320B)	279		5.0	0.79	mg/L			10/13/23 17:17	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: MW-8-3-101023

Lab Sample ID: 480-213545-2

Date Collected: 10/10/23 17:45

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/12/23 05:12	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/12/23 05:12	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/12/23 05:12	2
Trichloroethene	7.9		2.0	0.92	ug/L			10/12/23 05:12	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/12/23 05:12	2

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-3-101023

Lab Sample ID: 480-213545-2

Date Collected: 10/10/23 17:45

Matrix: Water

Date Received: 10/10/23 18:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		10/12/23 05:12	2
4-Bromofluorobenzene (Surr)	101		73 - 120		10/12/23 05:12	2
Toluene-d8 (Surr)	97		80 - 120		10/12/23 05:12	2
Dibromofluoromethane (Surr)	101		75 - 123		10/12/23 05:12	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	45000		10000	10000	ug/L			10/18/23 14:02	1
Ethane	ND		7.5	1.5	ug/L			10/12/23 14:03	1
Ethene	ND		7.0	1.5	ug/L			10/12/23 14:03	1
Methane	35		4.0	1.0	ug/L			10/12/23 14:03	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.047	J	0.050	0.019	mg/L		10/13/23 08:32	10/22/23 05:03	1
Magnesium	60.5		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 05:03	1
Manganese	3.0		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 05:03	1
Potassium	414		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 05:03	1
Sodium	362		1.0	0.32	mg/L		10/13/23 08:32	10/22/23 05:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1790		10.0	5.6	mg/L			10/13/23 21:46	20
Sulfate (EPA 300.0)	73.9		40.0	7.0	mg/L			10/13/23 21:46	20
Ammonia (EPA 350.1)	5.2		0.10	0.045	mg/L			10/13/23 16:05	5
Nitrate (EPA 353.2)	0.21		0.050	0.020	mg/L			10/11/23 18:01	1
Nitrate Nitrite as N (EPA 353.2)	0.26		0.050	0.020	mg/L			10/11/23 18:01	1
Nitrite (EPA 353.2)	0.047	J	0.050	0.020	mg/L			10/11/23 20:51	1
Total Organic Carbon (SW846 9060A)	8.0		1.0	0.43	mg/L			10/12/23 23:01	1
Total Alkalinity (SM 2320B)	235		5.0	0.79	mg/L			10/13/23 17:47	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: MW-7-C-2-101023

Lab Sample ID: 480-213545-3

Date Collected: 10/10/23 13:30

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	1.8	ug/L			10/12/23 05:34	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			10/12/23 05:34	5
Trichloroethene	ND		5.0	2.3	ug/L			10/12/23 05:34	5
Vinyl chloride	81		5.0	4.5	ug/L			10/12/23 05:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/12/23 05:34	5
4-Bromofluorobenzene (Surr)	97		73 - 120		10/12/23 05:34	5
Toluene-d8 (Surr)	101		80 - 120		10/12/23 05:34	5
Dibromofluoromethane (Surr)	97		75 - 123		10/12/23 05:34	5

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-C-2-101023

Lab Sample ID: 480-213545-3

Date Collected: 10/10/23 13:30

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	540		10	8.1	ug/L			10/12/23 17:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/12/23 17:42	10
4-Bromofluorobenzene (Surr)	98		73 - 120		10/12/23 17:42	10
Toluene-d8 (Surr)	97		80 - 120		10/12/23 17:42	10
Dibromofluoromethane (Surr)	97		75 - 123		10/12/23 17:42	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	53000		10000	10000	ug/L			10/18/23 14:13	1
Ethane	ND		7.5	1.5	ug/L			10/13/23 11:18	1
Ethene	8.1		7.0	1.5	ug/L			10/13/23 11:18	1
Methane	320		4.0	1.0	ug/L			10/13/23 11:18	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.58		0.050	0.019	mg/L		10/13/23 08:32	10/22/23 05:07	1
Magnesium	133		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 05:07	1
Manganese	0.35		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 05:07	1
Potassium	5.6		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 05:07	1
Sodium	118		1.0	0.32	mg/L		10/13/23 08:32	10/22/23 05:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	178		5.0	2.8	mg/L			10/13/23 23:33	10
Sulfate (EPA 300.0)	860		20.0	3.5	mg/L			10/13/23 23:33	10
Ammonia (EPA 350.1)	0.18		0.020	0.0090	mg/L			10/13/23 15:27	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:03	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:03	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:03	1
Total Organic Carbon (SW846 9060A)	0.89 J		1.0	0.43	mg/L			10/13/23 00:25	1
Total Alkalinity (SM 2320B)	338		5.0	0.79	mg/L			10/13/23 17:54	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: DUPE-101023

Lab Sample ID: 480-213545-4

Date Collected: 10/10/23 14:00

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1100		50	41	ug/L			10/12/23 05:56	50
Tetrachloroethene	1800		50	18	ug/L			10/12/23 05:56	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			10/12/23 05:56	50
Trichloroethene	380		50	23	ug/L			10/12/23 05:56	50
Vinyl chloride	ND		50	45	ug/L			10/12/23 05:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/12/23 05:56	50
4-Bromofluorobenzene (Surr)	99		73 - 120		10/12/23 05:56	50

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: DUPE-101023

Lab Sample ID: 480-213545-4

Date Collected: 10/10/23 14:00

Matrix: Water

Date Received: 10/10/23 18:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		10/12/23 05:56	50
Dibromofluoromethane (Surr)	101		75 - 123		10/12/23 05:56	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	11000		10000	10000	ug/L			10/18/23 14:23	1
Ethane	ND		7.5	1.5	ug/L			10/12/23 14:41	1
Ethene	7.1		7.0	1.5	ug/L			10/12/23 14:41	1
Methane	4.7		4.0	1.0	ug/L			10/12/23 14:41	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10		0.050	0.019	mg/L		10/13/23 08:32	10/22/23 05:11	1
Magnesium	10.9		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 05:11	1
Manganese	0.47		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 05:11	1
Potassium	6.3		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 05:11	1
Sodium	2030		5.0	1.6	mg/L		10/13/23 08:32	10/23/23 18:16	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2880		10.0	5.6	mg/L			10/13/23 23:51	20
Sulfate (EPA 300.0)	106		40.0	7.0	mg/L			10/13/23 23:51	20
Ammonia (EPA 350.1)	0.18		0.020	0.0090	mg/L			10/13/23 15:28	1
Nitrate (EPA 353.2)	0.055		0.050	0.020	mg/L			10/11/23 18:04	1
Nitrate Nitrite as N (EPA 353.2)	0.099		0.050	0.020	mg/L			10/11/23 18:04	1
Nitrite (EPA 353.2)	0.044 J		0.050	0.020	mg/L			10/11/23 20:53	1
Total Organic Carbon (SW846 9060A)	1.8		1.0	0.43	mg/L			10/13/23 01:20	1
Total Alkalinity (SM 2320B)	294		5.0	0.79	mg/L			10/13/23 18:07	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: MW-7-6-101023

Lab Sample ID: 480-213545-5

Date Collected: 10/10/23 16:45

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	630		10	8.1	ug/L			10/12/23 06:19	10
Tetrachloroethene	560		10	3.6	ug/L			10/12/23 06:19	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/12/23 06:19	10
Trichloroethene	310		10	4.6	ug/L			10/12/23 06:19	10
Vinyl chloride	9.2 J		10	9.0	ug/L			10/12/23 06:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/12/23 06:19	10
4-Bromofluorobenzene (Surr)	97		73 - 120		10/12/23 06:19	10
Toluene-d8 (Surr)	99		80 - 120		10/12/23 06:19	10
Dibromofluoromethane (Surr)	99		75 - 123		10/12/23 06:19	10

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-6-101023

Lab Sample ID: 480-213545-5

Date Collected: 10/10/23 16:45

Matrix: Water

Date Received: 10/10/23 18:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		10000	10000	ug/L			10/18/23 14:33	1
Ethane	7.8		7.5	1.5	ug/L			10/12/23 15:00	1
Ethene	ND		7.0	1.5	ug/L			10/12/23 15:00	1
Methane	250		4.0	1.0	ug/L			10/12/23 15:00	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.13		0.050	0.019	mg/L		10/13/23 08:32	10/22/23 05:14	1
Magnesium	84.5		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 05:14	1
Manganese	0.32		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 05:14	1
Potassium	13.5		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 05:14	1
Sodium	3480		5.0	1.6	mg/L		10/13/23 08:32	10/23/23 18:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5830		25.0	14.1	mg/L			10/14/23 00:09	50
Sulfate (EPA 300.0)	274		100	17.5	mg/L			10/14/23 00:09	50
Ammonia (EPA 350.1)	0.071		0.020	0.0090	mg/L			10/13/23 15:29	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:05	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:05	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/11/23 18:05	1
Total Organic Carbon (SW846 9060A)	1.8		1.0	0.43	mg/L			10/13/23 02:19	1
Total Alkalinity (SM 2320B)	327		5.0	0.79	mg/L			10/13/23 18:14	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213545-6

Date Collected: 10/10/23 00:00

Matrix: Water

Date Received: 10/10/23 18:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/23 06:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/23 06:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 06:41	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/23 06:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/23 06:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					10/12/23 06:41	1
4-Bromofluorobenzene (Surr)	100		73 - 120					10/12/23 06:41	1
Toluene-d8 (Surr)	99		80 - 120					10/12/23 06:41	1
Dibromofluoromethane (Surr)	99		75 - 123					10/12/23 06:41	1

Client Sample ID: MW-7-3-101123

Lab Sample ID: 480-213591-1

Date Collected: 10/11/23 10:00

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/12/23 19:57	2

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-3-101123

Lab Sample ID: 480-213591-1

Date Collected: 10/11/23 10:00

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0	0.72	ug/L			10/12/23 19:57	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/12/23 19:57	2
Trichloroethene	ND		2.0	0.92	ug/L			10/12/23 19:57	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/12/23 19:57	2

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					10/12/23 19:57	2
4-Bromofluorobenzene (Surr)	100		73 - 120					10/12/23 19:57	2
Toluene-d8 (Surr)	96		80 - 120					10/12/23 19:57	2
Dibromofluoromethane (Surr)	99		75 - 123					10/12/23 19:57	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	94000		10000	10000	ug/L			10/19/23 14:11	1
Ethane	ND		7.5	1.5	ug/L			10/13/23 13:48	1
Ethene	ND		7.0	1.5	ug/L			10/13/23 13:48	1
Methane	300		4.0	1.0	ug/L			10/13/23 13:48	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.6		0.050	0.019	mg/L		10/14/23 08:25	10/22/23 19:16	1
Magnesium	111		0.20	0.043	mg/L		10/14/23 08:25	10/22/23 19:16	1
Manganese	0.51	B	0.0030	0.00040	mg/L		10/14/23 08:25	10/22/23 19:16	1
Potassium	25.5		0.50	0.10	mg/L		10/14/23 08:25	10/22/23 19:16	1
Sodium	4950		10.0	3.2	mg/L		10/14/23 08:25	10/24/23 15:59	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8240		25.0	14.1	mg/L			10/19/23 19:28	50
Sulfate (EPA 300.0)	771		100	17.5	mg/L			10/19/23 19:28	50
Ammonia (EPA 350.1)	1.6		0.020	0.0090	mg/L			10/19/23 09:34	1
Nitrate (EPA 353.2)	0.038	J	0.050	0.020	mg/L			10/12/23 17:08	1
Nitrate Nitrite as N (EPA 353.2)	0.038	J	0.050	0.020	mg/L			10/12/23 17:08	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 17:08	1
Total Organic Carbon (SW846 9060A)	3.5		1.0	0.43	mg/L			10/14/23 21:09	1
Total Alkalinity (SM 2320B)	434		5.0	0.79	mg/L			10/13/23 19:57	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: MW-7-1R-101123

Lab Sample ID: 480-213591-2

Date Collected: 10/11/23 11:30

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/12/23 20:19	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/12/23 20:19	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/12/23 20:19	4
Trichloroethene	ND		4.0	1.8	ug/L			10/12/23 20:19	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/12/23 20:19	4

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-1R-101123

Lab Sample ID: 480-213591-2

Date Collected: 10/11/23 11:30

Matrix: Water

Date Received: 10/11/23 16:11

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/12/23 20:19	4
4-Bromofluorobenzene (Surr)	97		73 - 120		10/12/23 20:19	4
Toluene-d8 (Surr)	101		80 - 120		10/12/23 20:19	4
Dibromofluoromethane (Surr)	98		75 - 123		10/12/23 20:19	4

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	67000		10000	10000	ug/L			10/19/23 14:21	1
Ethane	ND		7.5	1.5	ug/L			10/13/23 11:55	1
Ethene	ND		7.0	1.5	ug/L			10/13/23 11:55	1
Methane	33		4.0	1.0	ug/L			10/13/23 11:55	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.050	0.019	mg/L		10/14/23 08:25	10/22/23 19:20	1
Magnesium	126		0.20	0.043	mg/L		10/14/23 08:25	10/22/23 19:20	1
Manganese	0.87	B	0.0030	0.00040	mg/L		10/14/23 08:25	10/22/23 19:20	1
Potassium	7.7		0.50	0.10	mg/L		10/14/23 08:25	10/22/23 19:20	1
Sodium	1230		5.0	1.6	mg/L		10/14/23 08:25	10/24/23 16:02	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2720		10.0	5.6	mg/L			10/19/23 19:46	20
Sulfate (EPA 300.0)	132		40.0	7.0	mg/L			10/19/23 19:46	20
Ammonia (EPA 350.1)	0.050		0.020	0.0090	mg/L			10/19/23 09:37	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 17:09	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 17:09	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 17:09	1
Total Organic Carbon (SW846 9060A)	1.5		1.0	0.43	mg/L			10/15/23 01:47	1
Total Alkalinity (SM 2320B)	337		5.0	0.79	mg/L			10/13/23 20:05	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: MW-8-4-101123

Lab Sample ID: 480-213591-3

Date Collected: 10/11/23 13:30

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	46		1.0	0.81	ug/L			10/12/23 20:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/23 20:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 20:41	1
Trichloroethene	11		1.0	0.46	ug/L			10/12/23 20:41	1
Vinyl chloride	24		1.0	0.90	ug/L			10/12/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/12/23 20:41	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/12/23 20:41	1
Toluene-d8 (Surr)	99		80 - 120		10/12/23 20:41	1
Dibromofluoromethane (Surr)	100		75 - 123		10/12/23 20:41	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-4-101123

Lab Sample ID: 480-213591-3

Date Collected: 10/11/23 13:30

Matrix: Water

Date Received: 10/11/23 16:11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	27000		10000	10000	ug/L			10/19/23 14:31	1
Ethane	ND		7.5	1.5	ug/L			10/13/23 12:14	1
Ethene	ND		7.0	1.5	ug/L			10/13/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	530		44	11	ug/L			10/13/23 14:07	11

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.38		0.050	0.019	mg/L		10/14/23 08:25	10/22/23 19:24	1
Magnesium	44.6		0.20	0.043	mg/L		10/14/23 08:25	10/22/23 19:24	1
Manganese	0.29	B	0.0030	0.00040	mg/L		10/14/23 08:25	10/22/23 19:24	1
Potassium	13.1		0.50	0.10	mg/L		10/14/23 08:25	10/22/23 19:24	1
Sodium	2220		5.0	1.6	mg/L		10/14/23 08:25	10/24/23 16:06	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3220		10.0	5.6	mg/L			10/19/23 20:04	20
Sulfate (EPA 300.0)	297		40.0	7.0	mg/L			10/19/23 20:04	20
Ammonia (EPA 350.1)	0.057		0.020	0.0090	mg/L			10/19/23 09:38	1
Nitrate (EPA 353.2)	0.021	J	0.050	0.020	mg/L			10/12/23 17:11	1
Nitrate Nitrite as N (EPA 353.2)	0.021	J	0.050	0.020	mg/L			10/12/23 17:11	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 17:11	1
Total Organic Carbon (SW846 9060A)	2.5		1.0	0.43	mg/L			10/15/23 02:16	1
Total Alkalinity (SM 2320B)	332		5.0	0.79	mg/L			10/13/23 20:12	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: MW-10-3-101123

Lab Sample ID: 480-213591-4

Date Collected: 10/11/23 15:00

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L			10/12/23 21:03	1
Tetrachloroethene	2.7		1.0	0.36	ug/L			10/12/23 21:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 21:03	1
Trichloroethene	4.9		1.0	0.46	ug/L			10/12/23 21:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/23 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		10/12/23 21:03	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/12/23 21:03	1
Toluene-d8 (Surr)	98		80 - 120		10/12/23 21:03	1
Dibromofluoromethane (Surr)	99		75 - 123		10/12/23 21:03	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		10000	10000	ug/L			10/19/23 14:41	1
Ethane	ND		7.5	1.5	ug/L			10/13/23 12:33	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-10-3-101123

Lab Sample ID: 480-213591-4

Date Collected: 10/11/23 15:00

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		7.0	1.5	ug/L			10/13/23 12:33	1
Methane	ND		4.0	1.0	ug/L			10/13/23 12:33	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/14/23 08:25	10/22/23 19:28	1
Magnesium	24.5		0.20	0.043	mg/L		10/14/23 08:25	10/22/23 19:28	1
Manganese	0.0013	J B	0.0030	0.00040	mg/L		10/14/23 08:25	10/22/23 19:28	1
Potassium	7.8		0.50	0.10	mg/L		10/14/23 08:25	10/22/23 19:28	1
Sodium	136		1.0	0.32	mg/L		10/14/23 08:25	10/22/23 19:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	134		2.5	1.4	mg/L			10/19/23 20:22	5
Sulfate (EPA 300.0)	191		10.0	1.7	mg/L			10/19/23 20:22	5
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/19/23 09:39	1
Nitrate (EPA 353.2)	0.81		0.050	0.020	mg/L			10/12/23 17:12	1
Nitrate Nitrite as N (EPA 353.2)	0.81		0.050	0.020	mg/L			10/12/23 17:12	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/12/23 22:23	1
Total Organic Carbon (SW846 9060A)	0.86	J	1.0	0.43	mg/L			10/15/23 02:44	1
Total Alkalinity (SM 2320B)	157	F1	5.0	0.79	mg/L			10/13/23 20:47	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213591-5

Date Collected: 10/11/23 00:00

Matrix: Water

Date Received: 10/11/23 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/23 21:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/23 21:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 21:26	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/23 21:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/23 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		10/12/23 21:26	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/12/23 21:26	1
Toluene-d8 (Surr)	97		80 - 120		10/12/23 21:26	1
Dibromofluoromethane (Surr)	102		75 - 123		10/12/23 21:26	1

Client Sample ID: MW-10-2-101323

Lab Sample ID: 480-213703-1

Date Collected: 10/13/23 10:00

Matrix: Water

Date Received: 10/13/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	430	F1	5.0	4.1	ug/L			10/16/23 01:33	5
Tetrachloroethene	ND		5.0	1.8	ug/L			10/16/23 01:33	5
trans-1,2-Dichloroethene	8.2		5.0	4.5	ug/L			10/16/23 01:33	5

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-10-2-101323

Lab Sample ID: 480-213703-1

Date Collected: 10/13/23 10:00

Matrix: Water

Date Received: 10/13/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.6	J	5.0	2.3	ug/L			10/16/23 01:33	5
Vinyl chloride	180		5.0	4.5	ug/L			10/16/23 01:33	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/16/23 01:33	5
4-Bromofluorobenzene (Surr)	108		73 - 120					10/16/23 01:33	5
Toluene-d8 (Surr)	106		80 - 120					10/16/23 01:33	5
Dibromofluoromethane (Surr)	104		75 - 123					10/16/23 01:33	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	23000		10000	10000	ug/L			10/24/23 12:48	1
Ethane	6.9	J	7.5	1.5	ug/L			10/16/23 09:54	1
Ethene	88	F1	7.0	1.5	ug/L			10/16/23 09:54	1
Methane	72	F1	4.0	1.0	ug/L			10/16/23 09:54	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.78	B	0.050	0.019	mg/L		10/17/23 08:51	10/18/23 22:10	1
Magnesium	50.2		0.20	0.043	mg/L		10/17/23 08:51	10/18/23 22:10	1
Manganese	0.23		0.0030	0.00040	mg/L		10/17/23 08:51	10/18/23 22:10	1
Potassium	8.9	B	0.50	0.10	mg/L		10/17/23 08:51	10/18/23 22:10	1
Sodium	1390		5.0	1.6	mg/L		10/17/23 08:51	10/19/23 19:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2250		10.0	5.6	mg/L			10/20/23 01:42	20
Sulfate (EPA 300.0)	180		40.0	7.0	mg/L			10/20/23 01:42	20
Ammonia (EPA 350.1)	0.30		0.020	0.0090	mg/L			10/19/23 10:09	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/14/23 14:20	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/14/23 14:20	1
Nitrite (EPA 353.2)	ND	F1	0.050	0.020	mg/L			10/14/23 15:23	1
Total Organic Carbon (SW846 9060A)	1.8		1.0	0.43	mg/L			10/19/23 17:19	1
Total Alkalinity (SM 2320B)	238	F1	5.0	0.79	mg/L			10/16/23 18:27	1
Sulfide (SM 4500 S2 F)	ND	F1	1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: MW-7-7-101323

Lab Sample ID: 480-213703-2

Date Collected: 10/13/23 13:30

Matrix: Water

Date Received: 10/13/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	36000		1000	810	ug/L			10/16/23 01:55	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			10/16/23 01:55	1000
Trichloroethene	20000		1000	460	ug/L			10/16/23 01:55	1000
Vinyl chloride	6000		1000	900	ug/L			10/16/23 01:55	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/16/23 01:55	1000
4-Bromofluorobenzene (Surr)	112		73 - 120					10/16/23 01:55	1000

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-7-101323

Lab Sample ID: 480-213703-2

Date Collected: 10/13/23 13:30

Matrix: Water

Date Received: 10/13/23 15:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		10/16/23 01:55	1000
Dibromofluoromethane (Surr)	102		75 - 123		10/16/23 01:55	1000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	100000		2000	720	ug/L			10/17/23 00:40	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/17/23 00:40	2000
4-Bromofluorobenzene (Surr)	107		73 - 120		10/17/23 00:40	2000
Toluene-d8 (Surr)	108		80 - 120		10/17/23 00:40	2000
Dibromofluoromethane (Surr)	104		75 - 123		10/17/23 00:40	2000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	56000		10000	10000	ug/L			10/24/23 13:19	1
Ethane	ND		330	66	ug/L			10/16/23 09:35	44
Ethene	420		310	66	ug/L			10/16/23 09:35	44
Methane	870		180	44	ug/L			10/16/23 09:35	44

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.11	B	0.050	0.019	mg/L		10/17/23 08:51	10/18/23 22:40	1
Magnesium	151		0.20	0.043	mg/L		10/17/23 08:51	10/18/23 22:40	1
Manganese	0.036		0.0030	0.00040	mg/L		10/17/23 08:51	10/18/23 22:40	1
Potassium	39.6	B	0.50	0.10	mg/L		10/17/23 08:51	10/18/23 22:40	1
Sodium	1550		5.0	1.6	mg/L		10/17/23 08:51	10/19/23 19:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3410		25.0	14.1	mg/L			10/20/23 00:11	50
Sulfate (EPA 300.0)	482		100	17.5	mg/L			10/20/23 00:11	50
Ammonia (EPA 350.1)	3.2		0.040	0.018	mg/L			10/19/23 11:58	2
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/14/23 14:25	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/14/23 14:25	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/14/23 14:25	1
Total Organic Carbon (SW846 9060A)	10.3		1.0	0.43	mg/L			10/19/23 18:47	1
Total Alkalinity (SM 2320B)	298		5.0	0.79	mg/L			10/16/23 19:40	1
Sulfide (SM 4500 S2 F)	3.2		1.0	0.67	mg/L			10/17/23 14:20	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213703-3

Date Collected: 10/13/23 00:00

Matrix: Water

Date Received: 10/13/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/16/23 02:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/23 02:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/16/23 02:17	1
Trichloroethene	ND		1.0	0.46	ug/L			10/16/23 02:17	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213703-3

Date Collected: 10/13/23 00:00

Matrix: Water

Date Received: 10/13/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			10/16/23 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					10/16/23 02:17	1
4-Bromofluorobenzene (Surr)	106		73 - 120					10/16/23 02:17	1
Toluene-d8 (Surr)	107		80 - 120					10/16/23 02:17	1
Dibromofluoromethane (Surr)	104		75 - 123					10/16/23 02:17	1

Client Sample ID: MW-6-1-101623

Lab Sample ID: 480-213769-1

Date Collected: 10/16/23 13:00

Matrix: Water

Date Received: 10/16/23 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/17/23 19:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/17/23 19:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/17/23 19:24	1
Trichloroethene	ND		1.0	0.46	ug/L			10/17/23 19:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/17/23 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					10/17/23 19:24	1
4-Bromofluorobenzene (Surr)	109		73 - 120					10/17/23 19:24	1
Toluene-d8 (Surr)	109		80 - 120					10/17/23 19:24	1
Dibromofluoromethane (Surr)	104		75 - 123					10/17/23 19:24	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000		10000	10000	ug/L			10/24/23 13:50	1
Ethane	ND		7.5	1.5	ug/L			10/18/23 10:18	1
Ethene	ND		7.0	1.5	ug/L			10/18/23 10:18	1
Methane	220		4.0	1.0	ug/L			10/18/23 10:18	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24.6		0.050	0.019	mg/L		10/18/23 08:40	10/19/23 23:24	1
Magnesium	63.7		0.20	0.043	mg/L		10/18/23 08:40	10/19/23 23:24	1
Manganese	4.8		0.0030	0.00040	mg/L		10/18/23 08:40	10/19/23 23:24	1
Potassium	5.0	B	0.50	0.10	mg/L		10/18/23 08:40	10/20/23 18:51	1
Sodium	577		1.0	0.32	mg/L		10/18/23 08:40	10/19/23 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1100		5.0	2.8	mg/L			10/20/23 17:09	10
Sulfate (EPA 300.0)	29.8		20.0	3.5	mg/L			10/20/23 17:09	10
Ammonia (EPA 350.1)	1.7		0.020	0.0090	mg/L			10/19/23 10:28	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:52	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:52	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:52	1
Total Organic Carbon (SW846 9060A)	7.2		1.0	0.43	mg/L			10/21/23 15:51	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-6-1-101623

Lab Sample ID: 480-213769-1

Date Collected: 10/16/23 13:00

Matrix: Water

Date Received: 10/16/23 18:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	512	B	5.0	0.79	mg/L			10/17/23 20:43	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: MW-6-2-101623

Lab Sample ID: 480-213769-2

Date Collected: 10/16/23 15:00

Matrix: Water

Date Received: 10/16/23 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/17/23 19:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/17/23 19:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/17/23 19:46	1
Trichloroethene	ND		1.0	0.46	ug/L			10/17/23 19:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/17/23 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/17/23 19:46	1
4-Bromofluorobenzene (Surr)	112		73 - 120		10/17/23 19:46	1
Toluene-d8 (Surr)	106		80 - 120		10/17/23 19:46	1
Dibromofluoromethane (Surr)	104		75 - 123		10/17/23 19:46	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	57000		10000	10000	ug/L			10/24/23 14:01	1
Ethane	ND		7.5	1.5	ug/L			10/18/23 10:37	1
Ethene	ND		7.0	1.5	ug/L			10/18/23 10:37	1
Methane	ND		4.0	1.0	ug/L			10/18/23 10:37	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.16		0.050	0.019	mg/L		10/18/23 08:40	10/19/23 23:28	1
Magnesium	50.6		0.20	0.043	mg/L		10/18/23 08:40	10/19/23 23:28	1
Manganese	0.35		0.0030	0.00040	mg/L		10/18/23 08:40	10/19/23 23:28	1
Potassium	5.2	B	0.50	0.10	mg/L		10/18/23 08:40	10/20/23 18:55	1
Sodium	677		1.0	0.32	mg/L		10/18/23 08:40	10/19/23 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1450		5.0	2.8	mg/L			10/20/23 17:27	10
Sulfate (EPA 300.0)	101		20.0	3.5	mg/L			10/20/23 17:27	10
Ammonia (EPA 350.1)	0.025		0.020	0.0090	mg/L			10/19/23 10:30	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:53	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:53	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:53	1
Total Organic Carbon (SW846 9060A)	1.9		1.0	0.43	mg/L			10/21/23 17:15	1
Total Alkalinity (SM 2320B)	436	B	5.0	0.79	mg/L			10/17/23 20:53	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: BLDG-10-MW-1-101623

Lab Sample ID: 480-213769-3

Date Collected: 10/16/23 17:00

Matrix: Water

Date Received: 10/16/23 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5000	4100	ug/L			10/17/23 20:08	5000
Tetrachloroethene	170000		5000	1800	ug/L			10/17/23 20:08	5000
trans-1,2-Dichloroethene	ND		5000	4500	ug/L			10/17/23 20:08	5000
Trichloroethene	5100		5000	2300	ug/L			10/17/23 20:08	5000
Vinyl chloride	ND		5000	4500	ug/L			10/17/23 20:08	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/17/23 20:08	5000
4-Bromofluorobenzene (Surr)	108		73 - 120		10/17/23 20:08	5000
Toluene-d8 (Surr)	108		80 - 120		10/17/23 20:08	5000
Dibromofluoromethane (Surr)	106		75 - 123		10/17/23 20:08	5000

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	74000		10000	10000	ug/L			10/24/23 14:11	1
Ethane	ND		7.5	1.5	ug/L			10/18/23 10:56	1
Ethene	1.5 J		7.0	1.5	ug/L			10/18/23 10:56	1
Methane	3.7 J		4.0	1.0	ug/L			10/18/23 10:56	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.0		0.050	0.019	mg/L		10/18/23 08:40	10/19/23 23:32	1
Magnesium	103		0.20	0.043	mg/L		10/18/23 08:40	10/19/23 23:32	1
Manganese	0.70		0.0030	0.00040	mg/L		10/18/23 08:40	10/19/23 23:32	1
Potassium	4.6 B		0.50	0.10	mg/L		10/18/23 08:40	10/20/23 18:58	1
Sodium	134		1.0	0.32	mg/L		10/18/23 08:40	10/19/23 23:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	570		5.0	2.8	mg/L			10/20/23 17:45	10
Sulfate (EPA 300.0)	231		20.0	3.5	mg/L			10/20/23 17:45	10
Ammonia (EPA 350.1)	0.16		0.020	0.0090	mg/L			10/19/23 10:31	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:55	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:55	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/17/23 19:55	1
Total Organic Carbon (SW846 9060A)	4.7		1.0	0.43	mg/L			10/21/23 18:10	1
Total Alkalinity (SM 2320B)	310 B		5.0	0.79	mg/L			10/17/23 21:01	1
Sulfide (SM 4500 S2 F)	ND F1		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213769-4

Date Collected: 10/16/23 00:00

Matrix: Water

Date Received: 10/16/23 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/17/23 20:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/17/23 20:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/17/23 20:30	1
Trichloroethene	ND		1.0	0.46	ug/L			10/17/23 20:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/17/23 20:30	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213769-4

Date Collected: 10/16/23 00:00

Matrix: Water

Date Received: 10/16/23 18:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/17/23 20:30	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/17/23 20:30	1
Toluene-d8 (Surr)	109		80 - 120		10/17/23 20:30	1
Dibromofluoromethane (Surr)	105		75 - 123		10/17/23 20:30	1

Client Sample ID: MW-9-12-101723

Lab Sample ID: 480-213811-1

Date Collected: 10/17/23 11:00

Matrix: Water

Date Received: 10/17/23 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/23 16:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/23 16:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/23 16:24	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/23 16:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/23 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/19/23 16:24	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/19/23 16:24	1
Toluene-d8 (Surr)	107		80 - 120		10/19/23 16:24	1
Dibromofluoromethane (Surr)	103		75 - 123		10/19/23 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		10/18/23 14:21	10/20/23 02:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/18/23 14:21	10/20/23 02:56	1
Anthracene	ND		5.0	0.28	ug/L		10/18/23 14:21	10/20/23 02:56	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		10/18/23 14:21	10/20/23 02:56	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		10/18/23 14:21	10/20/23 02:56	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		10/18/23 14:21	10/20/23 02:56	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		10/18/23 14:21	10/20/23 02:56	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		10/18/23 14:21	10/20/23 02:56	1
Chrysene	ND		5.0	0.33	ug/L		10/18/23 14:21	10/20/23 02:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/18/23 14:21	10/20/23 02:56	1
Fluoranthene	ND		5.0	0.40	ug/L		10/18/23 14:21	10/20/23 02:56	1
Fluorene	ND		5.0	0.36	ug/L		10/18/23 14:21	10/20/23 02:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		10/18/23 14:21	10/20/23 02:56	1
Naphthalene	ND		5.0	0.76	ug/L		10/18/23 14:21	10/20/23 02:56	1
Phenanthrene	ND		5.0	0.44	ug/L		10/18/23 14:21	10/20/23 02:56	1
Pyrene	ND		5.0	0.34	ug/L		10/18/23 14:21	10/20/23 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		48 - 120	10/18/23 14:21	10/20/23 02:56	1
Nitrobenzene-d5 (Surr)	86		46 - 120	10/18/23 14:21	10/20/23 02:56	1
p-Terphenyl-d14 (Surr)	93		60 - 148	10/18/23 14:21	10/20/23 02:56	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	30000		10000	10000	ug/L			10/24/23 14:42	1
Ethane	ND		7.5	1.5	ug/L			10/19/23 10:11	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-9-12-101723

Lab Sample ID: 480-213811-1

Date Collected: 10/17/23 11:00

Matrix: Water

Date Received: 10/17/23 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		7.0	1.5	ug/L			10/19/23 10:11	1
Methane	17		4.0	1.0	ug/L			10/19/23 10:11	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.18		0.050	0.019	mg/L		10/20/23 08:40	10/24/23 16:24	1
Magnesium	34.4		0.20	0.043	mg/L		10/20/23 08:40	10/24/23 16:24	1
Manganese	0.60	B	0.0030	0.00040	mg/L		10/20/23 08:40	10/24/23 16:24	1
Potassium	5.4		0.50	0.10	mg/L		10/20/23 08:40	10/24/23 16:24	1
Sodium	676		1.0	0.32	mg/L		10/20/23 08:40	10/24/23 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1040		5.0	2.8	mg/L			10/20/23 19:16	10
Sulfate (EPA 300.0)	119		20.0	3.5	mg/L			10/20/23 19:16	10
Ammonia (EPA 350.1)	0.12		0.020	0.0090	mg/L			10/19/23 10:42	1
Nitrate (EPA 353.2)	0.14		0.050	0.020	mg/L			10/18/23 20:04	1
Nitrate Nitrite as N (EPA 353.2)	0.14		0.050	0.020	mg/L			10/18/23 20:04	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 20:04	1
Total Organic Carbon (SW846 9060A)	1.5		1.0	0.43	mg/L			10/22/23 02:07	1
Total Alkalinity (SM 2320B)	331	F1	5.0	0.79	mg/L			10/23/23 21:50	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: MW-7-2-101723

Lab Sample ID: 480-213811-2

Date Collected: 10/17/23 13:00

Matrix: Water

Date Received: 10/17/23 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/23 16:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/23 16:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/23 16:47	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/23 16:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/23 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/19/23 16:47	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/19/23 16:47	1
Toluene-d8 (Surr)	105		80 - 120		10/19/23 16:47	1
Dibromofluoromethane (Surr)	105		75 - 123		10/19/23 16:47	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	38000		10000	10000	ug/L			10/24/23 14:52	1
Ethane	ND		7.5	1.5	ug/L			10/19/23 10:30	1
Ethene	ND		7.0	1.5	ug/L			10/19/23 10:30	1
Methane	ND		4.0	1.0	ug/L			10/19/23 10:30	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-2-101723

Lab Sample ID: 480-213811-2

Date Collected: 10/17/23 13:00

Matrix: Water

Date Received: 10/17/23 15:40

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.021	J	0.050	0.019	mg/L		10/20/23 08:40	10/24/23 16:27	1
Magnesium	35.7		0.20	0.043	mg/L		10/20/23 08:40	10/24/23 16:27	1
Manganese	0.0059	B	0.0030	0.00040	mg/L		10/20/23 08:40	10/24/23 16:27	1
Potassium	1.3		0.50	0.10	mg/L		10/20/23 08:40	10/24/23 16:27	1
Sodium	104		1.0	0.32	mg/L		10/20/23 08:40	10/24/23 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	181		2.5	1.4	mg/L			10/20/23 19:34	5
Sulfate (EPA 300.0)	23.2		10.0	1.7	mg/L			10/20/23 19:34	5
Ammonia (EPA 350.1)	ND		0.020	0.0090	mg/L			10/19/23 10:43	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:13	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:13	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:13	1
Total Organic Carbon (SW846 9060A)	1.3		1.0	0.43	mg/L			10/22/23 02:35	1
Total Alkalinity (SM 2320B)	362		5.0	0.79	mg/L			10/23/23 22:20	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: MW-7-8-101723

Lab Sample ID: 480-213811-3

Date Collected: 10/17/23 15:30

Matrix: Water

Date Received: 10/17/23 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	410	F1	10	8.1	ug/L			10/19/23 17:10	10
Tetrachloroethene	710	F1	10	3.6	ug/L			10/19/23 17:10	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/19/23 17:10	10
Trichloroethene	220		10	4.6	ug/L			10/19/23 17:10	10
Vinyl chloride	590	F1	10	9.0	ug/L			10/19/23 17:10	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/19/23 17:10	10
4-Bromofluorobenzene (Surr)	96		73 - 120					10/19/23 17:10	10
Toluene-d8 (Surr)	108		80 - 120					10/19/23 17:10	10
Dibromofluoromethane (Surr)	104		75 - 123					10/19/23 17:10	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	43000		10000	10000	ug/L			10/24/23 15:02	1
Ethane	54		7.5	1.5	ug/L			10/19/23 11:45	1
Ethene	21		7.0	1.5	ug/L			10/19/23 11:45	1
Methane	150		4.0	1.0	ug/L			10/19/23 11:45	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18.4		0.050	0.019	mg/L		10/20/23 08:40	10/24/23 16:42	1
Magnesium	180		0.20	0.043	mg/L		10/20/23 08:40	10/24/23 16:42	1
Manganese	0.99	B	0.0030	0.00040	mg/L		10/20/23 08:40	10/24/23 16:42	1
Potassium	39.4	^+	0.50	0.10	mg/L		10/20/23 08:40	10/24/23 16:42	1
Sodium	2740		5.0	1.6	mg/L		10/20/23 08:40	10/25/23 16:23	5

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-8-101723

Lab Sample ID: 480-213811-3

Date Collected: 10/17/23 15:30

Matrix: Water

Date Received: 10/17/23 15:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5060		25.0	14.1	mg/L			10/20/23 19:52	50
Sulfate (EPA 300.0)	235		100	17.5	mg/L			10/20/23 19:52	50
Ammonia (EPA 350.1)	0.81		0.020	0.0090	mg/L			10/19/23 10:44	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:14	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:14	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/18/23 18:14	1
Total Organic Carbon (SW846 9060A)	1.5		1.0	0.43	mg/L			10/22/23 03:04	1
Total Alkalinity (SM 2320B)	108		5.0	0.79	mg/L			10/23/23 22:30	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213811-4

Date Collected: 10/17/23 00:00

Matrix: Water

Date Received: 10/17/23 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/23 17:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/23 17:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/23 17:34	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/23 17:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/23 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/19/23 17:34	1
4-Bromofluorobenzene (Surr)	97		73 - 120					10/19/23 17:34	1
Toluene-d8 (Surr)	106		80 - 120					10/19/23 17:34	1
Dibromofluoromethane (Surr)	104		75 - 123					10/19/23 17:34	1

Client Sample ID: MW-7-P-1-101823

Lab Sample ID: 480-213871-1

Date Collected: 10/18/23 10:45

Matrix: Water

Date Received: 10/18/23 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			10/20/23 20:18	2
Tetrachloroethene	ND		2.0	0.72	ug/L			10/20/23 20:18	2
trans-1,2-Dichloroethene	2.4		2.0	1.8	ug/L			10/20/23 20:18	2
Trichloroethene	ND		2.0	0.92	ug/L			10/20/23 20:18	2
Vinyl chloride	ND		2.0	1.8	ug/L			10/20/23 20:18	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/20/23 20:18	2
4-Bromofluorobenzene (Surr)	104		73 - 120					10/20/23 20:18	2
Toluene-d8 (Surr)	105		80 - 120					10/20/23 20:18	2
Dibromofluoromethane (Surr)	102		75 - 123					10/20/23 20:18	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000		10000	10000	ug/L			10/25/23 13:18	1
Ethane	34		7.5	1.5	ug/L			10/20/23 10:46	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-P-1-101823

Lab Sample ID: 480-213871-1

Date Collected: 10/18/23 10:45

Matrix: Water

Date Received: 10/18/23 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		7.0	1.5	ug/L			10/20/23 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	6100		88	22	ug/L			10/20/23 14:32	22

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	94.5		0.050	0.019	mg/L		10/23/23 08:41	10/28/23 14:07	1
Magnesium	344		0.20	0.043	mg/L		10/23/23 08:41	10/28/23 14:07	1
Manganese	4.1		0.0030	0.00040	mg/L		10/23/23 08:41	10/28/23 14:07	1
Potassium	39.3		0.50	0.10	mg/L		10/23/23 08:41	10/28/23 14:07	1
Sodium	163		1.0	0.32	mg/L		10/23/23 08:41	10/28/23 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3560		25.0	14.1	mg/L			10/25/23 00:51	50
Sulfate (EPA 300.0)	23.5	J	100	17.5	mg/L			10/25/23 00:51	50
Ammonia (EPA 350.1)	197		4.0	1.8	mg/L			10/20/23 11:21	200
Nitrate (EPA 353.2)	0.038	J H	0.050	0.020	mg/L			10/20/23 18:41	1
Nitrate Nitrite as N (EPA 353.2)	0.038	J H B F1	0.050	0.020	mg/L			10/20/23 18:41	1
Nitrite (EPA 353.2)	ND	H	0.050	0.020	mg/L			10/20/23 20:36	1
Total Organic Carbon (SW846 9060A)	2.2		1.0	0.43	mg/L			10/26/23 17:31	1
Total Alkalinity (SM 2320B)	132		5.0	0.79	mg/L			10/24/23 09:43	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: MW-7-4-101823

Lab Sample ID: 480-213871-2

Date Collected: 10/18/23 12:30

Matrix: Water

Date Received: 10/18/23 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/23 20:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/23 20:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/23 20:43	1
Trichloroethene	3.3		1.0	0.46	ug/L			10/20/23 20:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/23 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/20/23 20:43	1
4-Bromofluorobenzene (Surr)	104		73 - 120		10/20/23 20:43	1
Toluene-d8 (Surr)	105		80 - 120		10/20/23 20:43	1
Dibromofluoromethane (Surr)	103		75 - 123		10/20/23 20:43	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	43000		10000	10000	ug/L			10/25/23 13:28	1
Ethane	ND		7.5	1.5	ug/L			10/20/23 11:05	1
Ethene	ND		7.0	1.5	ug/L			10/20/23 11:05	1
Methane	ND		4.0	1.0	ug/L			10/20/23 11:05	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-4-101823

Lab Sample ID: 480-213871-2

Date Collected: 10/18/23 12:30

Matrix: Water

Date Received: 10/18/23 13:45

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.075		0.050	0.019	mg/L		10/23/23 08:41	10/28/23 14:38	1
Magnesium	42.8		0.20	0.043	mg/L		10/23/23 08:41	10/28/23 14:38	1
Manganese	0.0068		0.0030	0.00040	mg/L		10/23/23 08:41	10/28/23 14:38	1
Potassium	3.3		0.50	0.10	mg/L		10/23/23 08:41	10/28/23 14:38	1
Sodium	255		1.0	0.32	mg/L		10/23/23 08:41	10/28/23 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	442		2.5	1.4	mg/L			10/25/23 01:09	5
Sulfate (EPA 300.0)	57.9		10.0	1.7	mg/L			10/25/23 01:09	5
Ammonia (EPA 350.1)	0.017	J	0.020	0.0090	mg/L			10/20/23 09:37	1
Nitrate (EPA 353.2)	0.045	J	0.050	0.020	mg/L			10/19/23 18:35	1
Nitrate Nitrite as N (EPA 353.2)	0.045	J B	0.050	0.020	mg/L			10/19/23 18:35	1
Nitrite (EPA 353.2)	ND	H	0.050	0.020	mg/L			10/20/23 20:37	1
Total Organic Carbon (SW846 9060A)	ND		1.0	0.43	mg/L			10/24/23 18:55	1
Total Alkalinity (SM 2320B)	384		5.0	0.79	mg/L			10/24/23 10:54	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213871-3

Date Collected: 10/18/23 00:00

Matrix: Water

Date Received: 10/18/23 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/23 21:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/23 21:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/23 21:07	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/23 21:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/23 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					10/20/23 21:07	1
4-Bromofluorobenzene (Surr)	99		73 - 120					10/20/23 21:07	1
Toluene-d8 (Surr)	103		80 - 120					10/20/23 21:07	1
Dibromofluoromethane (Surr)	101		75 - 123					10/20/23 21:07	1

Client Sample ID: MW-7-5-101923

Lab Sample ID: 480-213920-1

Date Collected: 10/19/23 09:50

Matrix: Water

Date Received: 10/19/23 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1100		200	160	ug/L			10/23/23 18:29	200
Tetrachloroethene	7500		200	72	ug/L			10/23/23 18:29	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			10/23/23 18:29	200
Trichloroethene	1200		200	92	ug/L			10/23/23 18:29	200
Vinyl chloride	ND		200	180	ug/L			10/23/23 18:29	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					10/23/23 18:29	200
4-Bromofluorobenzene (Surr)	101		73 - 120					10/23/23 18:29	200

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-5-101923

Lab Sample ID: 480-213920-1

Date Collected: 10/19/23 09:50

Matrix: Water

Date Received: 10/19/23 13:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		10/23/23 18:29	200
Dibromofluoromethane (Surr)	104		75 - 123		10/23/23 18:29	200

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	96000		10000	10000	ug/L			10/28/23 12:12	1
Ethane	ND		7.5	1.5	ug/L			10/23/23 11:00	1
Ethene	ND		7.0	1.5	ug/L			10/23/23 11:00	1
Methane	12		4.0	1.0	ug/L			10/23/23 11:00	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.14		0.050	0.019	mg/L		10/23/23 08:44	10/24/23 05:00	1
Magnesium	106		0.20	0.043	mg/L		10/23/23 08:44	10/24/23 05:00	1
Manganese	1.1		0.0030	0.00040	mg/L		10/23/23 08:44	10/24/23 05:00	1
Potassium	15.0		0.50	0.10	mg/L		10/23/23 08:44	10/24/23 05:00	1
Sodium	2600		10.0	3.2	mg/L		10/23/23 08:44	11/14/23 16:28	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5610		25.0	14.1	mg/L			10/25/23 05:15	50
Sulfate (EPA 300.0)	507		100	17.5	mg/L			10/25/23 05:15	50
Ammonia (EPA 350.1)	0.081		0.020	0.0090	mg/L			10/24/23 08:39	1
Nitrate (EPA 353.2)	0.90		0.050	0.020	mg/L			10/20/23 18:30	1
Nitrate Nitrite as N (EPA 353.2)	1.0	B	0.050	0.020	mg/L			10/20/23 18:30	1
Nitrite (EPA 353.2)	0.10	F1	0.050	0.020	mg/L			10/20/23 20:54	1
Total Organic Carbon (SW846 9060A)	8.2		1.0	0.43	mg/L			10/26/23 08:05	1
Total Alkalinity (SM 2320B)	464		5.0	0.79	mg/L			10/24/23 13:21	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: MW-7-A-6-101923

Lab Sample ID: 480-213920-2

Date Collected: 10/19/23 11:30

Matrix: Water

Date Received: 10/19/23 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	95000		2000	1600	ug/L			10/23/23 18:51	2000
Tetrachloroethene	64000		2000	720	ug/L			10/23/23 18:51	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			10/23/23 18:51	2000
Trichloroethene	13000		2000	920	ug/L			10/23/23 18:51	2000
Vinyl chloride	72000		2000	1800	ug/L			10/23/23 18:51	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/23/23 18:51	2000
4-Bromofluorobenzene (Surr)	101		73 - 120		10/23/23 18:51	2000
Toluene-d8 (Surr)	99		80 - 120		10/23/23 18:51	2000
Dibromofluoromethane (Surr)	98		75 - 123		10/23/23 18:51	2000

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-A-6-101923

Lab Sample ID: 480-213920-2

Date Collected: 10/19/23 11:30

Matrix: Water

Date Received: 10/19/23 13:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	300000		10000	10000	ug/L			10/28/23 12:22	1
Ethane	140		7.5	1.5	ug/L			10/23/23 11:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	5500		150	33	ug/L			10/23/23 12:01	22
Methane	1400		88	22	ug/L			10/23/23 12:01	22

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16.8		0.050	0.019	mg/L		10/23/23 08:44	10/24/23 05:04	1
Magnesium	142		0.20	0.043	mg/L		10/23/23 08:44	10/24/23 05:04	1
Manganese	2.0		0.0030	0.00040	mg/L		10/23/23 08:44	10/24/23 05:04	1
Potassium	5.1		0.50	0.10	mg/L		10/23/23 08:44	10/24/23 05:04	1
Sodium	481	^+	1.0	0.32	mg/L		10/23/23 08:44	10/24/23 05:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1420		10.0	5.6	mg/L			10/25/23 05:33	20
Sulfate (EPA 300.0)	25.0	J	40.0	7.0	mg/L			10/25/23 05:33	20
Ammonia (EPA 350.1)	0.15		0.020	0.0090	mg/L			10/24/23 08:40	1
Nitrate (EPA 353.2)	ND		0.050	0.020	mg/L			10/20/23 18:34	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.050	0.020	mg/L			10/20/23 18:34	1
Nitrite (EPA 353.2)	ND		0.050	0.020	mg/L			10/20/23 18:34	1
Total Organic Carbon (SW846 9060A)	26.3		1.0	0.43	mg/L			10/24/23 10:36	1
Total Alkalinity (SM 2320B)	516		5.0	0.79	mg/L			10/24/23 13:32	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: DUPE-2-101923

Lab Sample ID: 480-213920-3

Date Collected: 10/19/23 10:00

Matrix: Water

Date Received: 10/19/23 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1500		200	160	ug/L			10/24/23 13:52	200
Tetrachloroethene	14000		200	72	ug/L			10/24/23 13:52	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			10/24/23 13:52	200
Trichloroethene	1900		200	92	ug/L			10/24/23 13:52	200
Vinyl chloride	ND		200	180	ug/L			10/24/23 13:52	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/24/23 13:52	200
4-Bromofluorobenzene (Surr)	103		73 - 120		10/24/23 13:52	200
Toluene-d8 (Surr)	95		80 - 120		10/24/23 13:52	200
Dibromofluoromethane (Surr)	102		75 - 123		10/24/23 13:52	200

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	100000		10000	10000	ug/L			10/28/23 12:31	1
Ethane	ND		7.5	1.5	ug/L			10/23/23 11:38	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: DUPE-2-101923

Lab Sample ID: 480-213920-3

Date Collected: 10/19/23 10:00

Matrix: Water

Date Received: 10/19/23 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethene	ND		7.0	1.5	ug/L			10/23/23 11:38	1
Methane	9.9		4.0	1.0	ug/L			10/23/23 11:38	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10		0.050	0.019	mg/L		10/23/23 08:44	10/24/23 05:07	1
Magnesium	93.3		0.20	0.043	mg/L		10/23/23 08:44	10/24/23 05:07	1
Manganese	0.99		0.0030	0.00040	mg/L		10/23/23 08:44	10/24/23 05:07	1
Potassium	10.7		0.50	0.10	mg/L		10/23/23 08:44	10/24/23 05:07	1
Sodium	2840		10.0	3.2	mg/L		10/23/23 08:44	11/14/23 16:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	5490		25.0	14.1	mg/L			10/25/23 05:51	50
Sulfate (EPA 300.0)	497		100	17.5	mg/L			10/25/23 05:51	50
Ammonia (EPA 350.1)	0.081		0.020	0.0090	mg/L			10/24/23 08:41	1
Nitrate (EPA 353.2)	1.0		0.050	0.020	mg/L			10/20/23 18:35	1
Nitrate Nitrite as N (EPA 353.2)	1.1	B	0.050	0.020	mg/L			10/20/23 18:35	1
Nitrite (EPA 353.2)	0.099		0.050	0.020	mg/L			10/20/23 20:58	1
Total Organic Carbon (SW846 9060A)	6.8		1.0	0.43	mg/L			10/24/23 11:06	1
Total Alkalinity (SM 2320B)	440		5.0	0.79	mg/L			10/24/23 13:41	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213920-4

Date Collected: 10/19/23 00:00

Matrix: Water

Date Received: 10/19/23 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/23/23 19:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/23/23 19:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/23/23 19:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/23/23 19:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/23/23 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/23/23 19:35	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/23/23 19:35	1
Toluene-d8 (Surr)	96		80 - 120		10/23/23 19:35	1
Dibromofluoromethane (Surr)	105		75 - 123		10/23/23 19:35	1

Eurofins Buffalo

Surrogate Summary

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

Job ID: 480-213392-2
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)
480-213392-4	TK-6-100523	104	96	100	99
480-213439-1	MW-6-F-8-100623	100	97	105	99
480-213439-2	MW-9-101-A-100623	105	98	105	102
480-213507-1	MW-8-1-100923	107	114	104	104
480-213507-2	MW-8-2-100923	105	112	107	103
480-213507-2 MS	MW-8-2-100923	104	110	105	100
480-213507-2 MSD	MW-8-2-100923	105	110	106	103
480-213507-3	TRIP BLANK	106	112	109	106
480-213545-1	MW-8-003-B-101023	110	105	95	103
480-213545-2	MW-8-3-101023	114	101	97	101
480-213545-3	MW-7-C-2-101023	109	97	101	97
480-213545-3 - DL	MW-7-C-2-101023	110	98	97	97
480-213545-4	DUPE-101023	109	99	98	101
480-213545-5	MW-7-6-101023	110	97	99	99
480-213545-6	TRIP BLANK	106	100	99	99
480-213591-1	MW-7-3-101123	111	100	96	99
480-213591-2	MW-7-1R-101123	111	97	101	98
480-213591-3	MW-8-4-101123	111	98	99	100
480-213591-4	MW-10-3-101123	114	101	98	99
480-213591-5	TRIP BLANK	116	99	97	102
480-213703-1	MW-10-2-101323	108	108	106	104
480-213703-1 MS	MW-10-2-101323	106	109	106	104
480-213703-1 MSD	MW-10-2-101323	103	110	107	102
480-213703-2	MW-7-7-101323	105	112	107	102
480-213703-2 - DL	MW-7-7-101323	107	107	108	104
480-213703-3	TRIP BLANK	107	106	107	104
480-213769-1	MW-6-1-101623	106	109	109	104
480-213769-2	MW-6-2-101623	107	112	106	104
480-213769-3	BLDG-10-MW-1-101623	108	108	108	106
480-213769-4	TRIP BLANK	108	105	109	105
480-213811-1	MW-9-12-101723	99	97	107	103
480-213811-2	MW-7-2-101723	100	97	105	105
480-213811-3	MW-7-8-101723	105	96	108	104
480-213811-3 MS	MW-7-8-101723	103	99	112	103
480-213811-3 MSD	MW-7-8-101723	102	95	107	105
480-213811-4	TRIP BLANK	101	97	106	104
480-213871-1	MW-7-P-1-101823	105	104	105	102
480-213871-2	MW-7-4-101823	107	104	105	103
480-213871-3	TRIP BLANK	104	99	103	101
480-213920-1	MW-7-5-101923	100	101	97	104
480-213920-2	MW-7-A-6-101923	100	101	99	98
480-213920-3	DUPE-2-101923	103	103	95	102
480-213920-4	TRIP BLANK	106	103	96	105
LCS 480-686566/6	Lab Control Sample	104	95	108	101
LCS 480-686607/6	Lab Control Sample	96	100	98	98
LCS 480-686979/6	Lab Control Sample	105	99	97	105
LCS 480-687016/6	Lab Control Sample	102	110	105	99
LCS 480-687152/6	Lab Control Sample	114	102	97	103
LCS 480-687521/6	Lab Control Sample	105	108	105	102

Surrogate Summary

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

Job ID: 480-213392-2
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 480-687640/6	Lab Control Sample	102	109	106	101
LCS 480-687797/6	Lab Control Sample	104	109	107	102
LCS 480-688181/6	Lab Control Sample	100	97	111	100
LCS 480-688364/6	Lab Control Sample	98	94	99	101
LCS 480-688618/6	Lab Control Sample	94	101	98	103
LCS 480-688822/6	Lab Control Sample	95	104	97	96
LCSD 480-687152/32	Lab Control Sample Dup	108	99	100	97
MB 480-686566/8	Method Blank	105	99	107	102
MB 480-686607/8	Method Blank	97	101	98	101
MB 480-686979/8	Method Blank	106	98	100	95
MB 480-687016/8	Method Blank	102	114	106	98
MB 480-687152/8	Method Blank	111	101	99	100
MB 480-687521/8	Method Blank	106	114	105	104
MB 480-687640/8	Method Blank	106	110	106	102
MB 480-687797/8	Method Blank	104	116	105	103
MB 480-688181/8	Method Blank	103	98	107	103
MB 480-688364/8	Method Blank	100	100	99	99
MB 480-688618/8	Method Blank	97	101	100	98
MB 480-688822/8	Method Blank	103	104	97	102

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)
480-213439-2	MW-9-101-A-100623	106	94	64
480-213811-1	MW-9-12-101723	89	86	93
LCS 480-686706/2-A	Lab Control Sample	103	100	107
LCS 480-688004/2-A	Lab Control Sample	92	93	102
LCSD 480-686706/3-A	Lab Control Sample Dup	104	101	114
LCSD 480-688004/3-A	Lab Control Sample Dup	91	88	100
MB 480-686706/1-A	Method Blank	102	90	109
MB 480-688004/1-A	Method Blank	84	83	98

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-686566/8

Matrix: Water

Analysis Batch: 686566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/09/23 13:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/09/23 13:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/09/23 13:21	1
Trichloroethene	ND		1.0	0.46	ug/L			10/09/23 13:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/09/23 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/09/23 13:21	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/09/23 13:21	1
Toluene-d8 (Surr)	107		80 - 120		10/09/23 13:21	1
Dibromofluoromethane (Surr)	102		75 - 123		10/09/23 13:21	1

Lab Sample ID: LCS 480-686566/6

Matrix: Water

Analysis Batch: 686566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
Trichloroethene	25.0	23.4		ug/L		94	74 - 123
Vinyl chloride	25.0	26.0		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: MB 480-686607/8

Matrix: Water

Analysis Batch: 686607

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/10/23 00:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/10/23 00:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/10/23 00:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/10/23 00:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/10/23 00:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		10/10/23 00:35	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/10/23 00:35	1
Toluene-d8 (Surr)	98		80 - 120		10/10/23 00:35	1
Dibromofluoromethane (Surr)	101		75 - 123		10/10/23 00:35	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-686607/6

Matrix: Water

Analysis Batch: 686607

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	24.2		ug/L		97	74 - 124
Tetrachloroethene	25.0	25.6		ug/L		102	74 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
Trichloroethene	25.0	25.6		ug/L		103	74 - 123
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Lab Sample ID: MB 480-686979/8

Matrix: Water

Analysis Batch: 686979

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/23 00:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/23 00:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 00:43	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/23 00:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/23 00:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/12/23 00:43	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/12/23 00:43	1
Toluene-d8 (Surr)	100		80 - 120		10/12/23 00:43	1
Dibromofluoromethane (Surr)	95		75 - 123		10/12/23 00:43	1

Lab Sample ID: LCS 480-686979/6

Matrix: Water

Analysis Batch: 686979

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	25.2		ug/L		101	74 - 124
Tetrachloroethene	25.0	26.1		ug/L		105	74 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
Trichloroethene	25.0	26.3		ug/L		105	74 - 123
Vinyl chloride	25.0	25.6		ug/L		102	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-687016/8

Matrix: Water

Analysis Batch: 687016

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/11/23 17:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/11/23 17:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/11/23 17:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/11/23 17:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/11/23 17:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/11/23 17:35	1
4-Bromofluorobenzene (Surr)	114		73 - 120		10/11/23 17:35	1
Toluene-d8 (Surr)	106		80 - 120		10/11/23 17:35	1
Dibromofluoromethane (Surr)	98		75 - 123		10/11/23 17:35	1

Lab Sample ID: LCS 480-687016/6

Matrix: Water

Analysis Batch: 687016

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	23.9		ug/L		96	74 - 124
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Vinyl chloride	25.0	24.7		ug/L		99	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 687016

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	7700	F1	2500	7110	F1	ug/L		-23	74 - 124
Tetrachloroethene	ND		2500	2510		ug/L		100	74 - 122
trans-1,2-Dichloroethene	ND		2500	2460		ug/L		98	73 - 127
Trichloroethene	1400		2500	3310		ug/L		75	74 - 123
Vinyl chloride	470		2500	2780		ug/L		92	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687016

Client Sample ID: MW-8-2-100923

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	7700	F1	2500	7470	F1	ug/L		-9	74 - 124	5	15
Tetrachloroethene	ND		2500	2600		ug/L		104	74 - 122	4	20
trans-1,2-Dichloroethene	ND		2500	2630		ug/L		105	73 - 127	7	20
Trichloroethene	1400		2500	3540		ug/L		84	74 - 123	7	16
Vinyl chloride	470		2500	2940		ug/L		99	65 - 133	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: MB 480-687152/8

Matrix: Water

Analysis Batch: 687152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/12/23 16:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/12/23 16:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/12/23 16:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/12/23 16:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/12/23 16:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/12/23 16:35	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/12/23 16:35	1
Toluene-d8 (Surr)	99		80 - 120		10/12/23 16:35	1
Dibromofluoromethane (Surr)	100		75 - 123		10/12/23 16:35	1

Lab Sample ID: LCS 480-687152/6

Matrix: Water

Analysis Batch: 687152

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	24.0		ug/L		96	74 - 124
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	73 - 127
Trichloroethene	25.0	25.6		ug/L		102	74 - 123
Vinyl chloride	25.0	26.3		ug/L		105	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCSD 480-687152/32

Matrix: Water

Analysis Batch: 687152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	74 - 124	5	15
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122	6	20
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127	3	20
Trichloroethene	25.0	25.7		ug/L		103	74 - 123	0	16
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133	4	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Lab Sample ID: MB 480-687521/8

Matrix: Water

Analysis Batch: 687521

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/16/23 01:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/23 01:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/16/23 01:11	1
Trichloroethene	ND		1.0	0.46	ug/L			10/16/23 01:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/16/23 01:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/16/23 01:11	1
4-Bromofluorobenzene (Surr)	114		73 - 120		10/16/23 01:11	1
Toluene-d8 (Surr)	105		80 - 120		10/16/23 01:11	1
Dibromofluoromethane (Surr)	104		75 - 123		10/16/23 01:11	1

Lab Sample ID: LCS 480-687521/6

Matrix: Water

Analysis Batch: 687521

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	21.2		ug/L		85	74 - 124
Tetrachloroethene	25.0	21.9		ug/L		88	74 - 122
trans-1,2-Dichloroethene	25.0	21.2		ug/L		85	73 - 127
Trichloroethene	25.0	22.1		ug/L		88	74 - 123
Vinyl chloride	25.0	24.8		ug/L		99	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687521

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	430	F1	125	507	E F1	ug/L		63	74 - 124
Tetrachloroethene	ND		125	111		ug/L		89	74 - 122
trans-1,2-Dichloroethene	8.2		125	118		ug/L		88	73 - 127
Trichloroethene	3.6	J	125	115		ug/L		89	74 - 123
Vinyl chloride	180		125	316		ug/L		107	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Toluene-d8 (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687521

Client Sample ID: MW-10-2-101323

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	430	F1	125	544	E	ug/L		92	74 - 124	7	15
Tetrachloroethene	ND		125	124		ug/L		99	74 - 122	11	20
trans-1,2-Dichloroethene	8.2		125	126		ug/L		94	73 - 127	6	20
Trichloroethene	3.6	J	125	123		ug/L		96	74 - 123	7	16
Vinyl chloride	180		125	327		ug/L		116	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: MB 480-687640/8

Matrix: Water

Analysis Batch: 687640

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/16/23 17:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/23 17:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/16/23 17:34	1
Trichloroethene	ND		1.0	0.46	ug/L			10/16/23 17:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/16/23 17:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/16/23 17:34	1
4-Bromofluorobenzene (Surr)	110		73 - 120		10/16/23 17:34	1
Toluene-d8 (Surr)	106		80 - 120		10/16/23 17:34	1
Dibromofluoromethane (Surr)	102		75 - 123		10/16/23 17:34	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-687640/6

Matrix: Water

Analysis Batch: 687640

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	25.0		ug/L		100	74 - 124
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Vinyl chloride	25.0	25.4		ug/L		102	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Toluene-d8 (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: MB 480-687797/8

Matrix: Water

Analysis Batch: 687797

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/17/23 14:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/17/23 14:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/17/23 14:43	1
Trichloroethene	ND		1.0	0.46	ug/L			10/17/23 14:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/17/23 14:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		10/17/23 14:43	1
4-Bromofluorobenzene (Surr)	116		73 - 120		10/17/23 14:43	1
Toluene-d8 (Surr)	105		80 - 120		10/17/23 14:43	1
Dibromofluoromethane (Surr)	103		75 - 123		10/17/23 14:43	1

Lab Sample ID: LCS 480-687797/6

Matrix: Water

Analysis Batch: 687797

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	24.0		ug/L		96	74 - 124
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	73 - 127
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Vinyl chloride	25.0	24.3		ug/L		97	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Toluene-d8 (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-688181/8
Matrix: Water
Analysis Batch: 688181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/19/23 15:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/19/23 15:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/19/23 15:40	1
Trichloroethene	ND		1.0	0.46	ug/L			10/19/23 15:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/19/23 15:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/19/23 15:40	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/19/23 15:40	1
Toluene-d8 (Surr)	107		80 - 120		10/19/23 15:40	1
Dibromofluoromethane (Surr)	103		75 - 123		10/19/23 15:40	1

Lab Sample ID: LCS 480-688181/6
Matrix: Water
Analysis Batch: 688181

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	24.5		ug/L		98	74 - 124
Tetrachloroethene	25.0	26.9		ug/L		107	74 - 122
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
Trichloroethene	25.0	24.4		ug/L		98	74 - 123
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	111		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: 480-213811-3 MS
Matrix: Water
Analysis Batch: 688181

Client Sample ID: MW-7-8-101723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	410	F1	250	587	F1	ug/L		70	74 - 124
Tetrachloroethene	710	F1	250	821	F1	ug/L		45	74 - 122
trans-1,2-Dichloroethene	ND		250	250		ug/L		100	73 - 127
Trichloroethene	220		250	429		ug/L		85	74 - 123
Vinyl chloride	590	F1	250	702	F1	ug/L		43	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	112		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213811-3 MSD

Matrix: Water

Analysis Batch: 688181

Client Sample ID: MW-7-8-101723

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	410	F1	250	583	F1	ug/L		68	74 - 124	1	15
Tetrachloroethene	710	F1	250	787	F1	ug/L		31	74 - 122	4	20
trans-1,2-Dichloroethene	ND		250	245		ug/L		98	73 - 127	2	20
Trichloroethene	220		250	422		ug/L		82	74 - 123	2	16
Vinyl chloride	590	F1	250	686	F1	ug/L		37	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: MB 480-688364/8

Matrix: Water

Analysis Batch: 688364

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/20/23 17:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/20/23 17:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/20/23 17:28	1
Trichloroethene	ND		1.0	0.46	ug/L			10/20/23 17:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/20/23 17:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/20/23 17:28	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/20/23 17:28	1
Toluene-d8 (Surr)	99		80 - 120		10/20/23 17:28	1
Dibromofluoromethane (Surr)	99		75 - 123		10/20/23 17:28	1

Lab Sample ID: LCS 480-688364/6

Matrix: Water

Analysis Batch: 688364

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	24.9		ug/L		99	74 - 124
Tetrachloroethene	25.0	25.0		ug/L		100	74 - 122
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	73 - 127
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Vinyl chloride	25.0	26.0		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-688618/8

Matrix: Water

Analysis Batch: 688618

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/23/23 13:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/23/23 13:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/23/23 13:47	1
Trichloroethene	ND		1.0	0.46	ug/L			10/23/23 13:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/23/23 13:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		10/23/23 13:47	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/23/23 13:47	1
Toluene-d8 (Surr)	100		80 - 120		10/23/23 13:47	1
Dibromofluoromethane (Surr)	98		75 - 123		10/23/23 13:47	1

Lab Sample ID: LCS 480-688618/6

Matrix: Water

Analysis Batch: 688618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	28.6		ug/L		114	74 - 124
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
trans-1,2-Dichloroethene	25.0	29.1		ug/L		116	73 - 127
Trichloroethene	25.0	27.6		ug/L		111	74 - 123
Vinyl chloride	25.0	31.7		ug/L		127	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: MB 480-688822/8

Matrix: Water

Analysis Batch: 688822

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/24/23 13:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/24/23 13:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/24/23 13:29	1
Trichloroethene	ND		1.0	0.46	ug/L			10/24/23 13:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/24/23 13:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/24/23 13:29	1
4-Bromofluorobenzene (Surr)	104		73 - 120		10/24/23 13:29	1
Toluene-d8 (Surr)	97		80 - 120		10/24/23 13:29	1
Dibromofluoromethane (Surr)	102		75 - 123		10/24/23 13:29	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-688822/6

Matrix: Water

Analysis Batch: 688822

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	26.6		ug/L		106	74 - 124
Tetrachloroethene	25.0	28.2		ug/L		113	74 - 122
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	73 - 127
Trichloroethene	25.0	27.2		ug/L		109	74 - 123
Vinyl chloride	25.0	29.7		ug/L		119	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		75 - 123

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

Lab Sample ID: MB 480-686706/1-A

Matrix: Water

Analysis Batch: 686737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 686706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		10/10/23 08:51	10/11/23 20:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/10/23 08:51	10/11/23 20:30	1
Anthracene	ND		5.0	0.28	ug/L		10/10/23 08:51	10/11/23 20:30	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		10/10/23 08:51	10/11/23 20:30	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		10/10/23 08:51	10/11/23 20:30	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		10/10/23 08:51	10/11/23 20:30	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		10/10/23 08:51	10/11/23 20:30	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		10/10/23 08:51	10/11/23 20:30	1
Chrysene	ND		5.0	0.33	ug/L		10/10/23 08:51	10/11/23 20:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/10/23 08:51	10/11/23 20:30	1
Fluoranthene	ND		5.0	0.40	ug/L		10/10/23 08:51	10/11/23 20:30	1
Fluorene	ND		5.0	0.36	ug/L		10/10/23 08:51	10/11/23 20:30	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		10/10/23 08:51	10/11/23 20:30	1
Naphthalene	ND		5.0	0.76	ug/L		10/10/23 08:51	10/11/23 20:30	1
Phenanthrene	ND		5.0	0.44	ug/L		10/10/23 08:51	10/11/23 20:30	1
Pyrene	ND		5.0	0.34	ug/L		10/10/23 08:51	10/11/23 20:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		48 - 120	10/10/23 08:51	10/11/23 20:30	1
Nitrobenzene-d5 (Surr)	90		46 - 120	10/10/23 08:51	10/11/23 20:30	1
p-Terphenyl-d14 (Surr)	109		60 - 148	10/10/23 08:51	10/11/23 20:30	1

Lab Sample ID: LCS 480-686706/2-A

Matrix: Water

Analysis Batch: 686737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 686706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	31.9		ug/L		100	60 - 120
Acenaphthylene	32.0	33.7		ug/L		105	63 - 120

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-686706/2-A

Matrix: Water

Analysis Batch: 686737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 686706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	32.0	34.3		ug/L		107	67 - 120
Benzo[a]anthracene	32.0	34.9		ug/L		109	70 - 121
Benzo[a]pyrene	32.0	35.1		ug/L		110	60 - 123
Benzo[b]fluoranthene	32.0	33.1		ug/L		104	66 - 126
Benzo[g,h,i]perylene	32.0	36.2		ug/L		113	66 - 150
Benzo[k]fluoranthene	32.0	32.1		ug/L		100	65 - 124
Chrysene	32.0	34.7		ug/L		108	69 - 120
Dibenz(a,h)anthracene	32.0	36.2		ug/L		113	65 - 135
Fluoranthene	32.0	34.7		ug/L		109	69 - 126
Fluorene	32.0	33.0		ug/L		103	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	36.3		ug/L		113	69 - 146
Naphthalene	32.0	31.2		ug/L		97	57 - 120
Phenanthrene	32.0	33.7		ug/L		105	68 - 120
Pyrene	32.0	33.9		ug/L		106	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		48 - 120
Nitrobenzene-d5 (Surr)	100		46 - 120
p-Terphenyl-d14 (Surr)	107		60 - 148

Lab Sample ID: LCSD 480-686706/3-A

Matrix: Water

Analysis Batch: 686737

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 686706

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	32.6		ug/L		102	60 - 120	2	24
Acenaphthylene	32.0	34.7		ug/L		108	63 - 120	3	18
Anthracene	32.0	36.0		ug/L		113	67 - 120	5	15
Benzo[a]anthracene	32.0	35.5		ug/L		111	70 - 121	2	15
Benzo[a]pyrene	32.0	36.5		ug/L		114	60 - 123	4	15
Benzo[b]fluoranthene	32.0	33.8		ug/L		106	66 - 126	2	15
Benzo[g,h,i]perylene	32.0	37.5		ug/L		117	66 - 150	3	15
Benzo[k]fluoranthene	32.0	34.7		ug/L		108	65 - 124	8	22
Chrysene	32.0	35.7		ug/L		112	69 - 120	3	15
Dibenz(a,h)anthracene	32.0	38.3		ug/L		120	65 - 135	6	15
Fluoranthene	32.0	36.8		ug/L		115	69 - 126	6	15
Fluorene	32.0	33.9		ug/L		106	66 - 120	3	15
Indeno[1,2,3-cd]pyrene	32.0	37.7		ug/L		118	69 - 146	4	15
Naphthalene	32.0	31.6		ug/L		99	57 - 120	1	29
Phenanthrene	32.0	35.6		ug/L		111	68 - 120	5	15
Pyrene	32.0	34.1		ug/L		107	70 - 125	1	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	104		48 - 120
Nitrobenzene-d5 (Surr)	101		46 - 120
p-Terphenyl-d14 (Surr)	114		60 - 148

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-688004/1-A

Matrix: Water

Analysis Batch: 688103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		10/18/23 14:21	10/19/23 13:56	1
Acenaphthylene	ND		5.0	0.38	ug/L		10/18/23 14:21	10/19/23 13:56	1
Anthracene	ND		5.0	0.28	ug/L		10/18/23 14:21	10/19/23 13:56	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		10/18/23 14:21	10/19/23 13:56	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		10/18/23 14:21	10/19/23 13:56	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		10/18/23 14:21	10/19/23 13:56	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		10/18/23 14:21	10/19/23 13:56	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		10/18/23 14:21	10/19/23 13:56	1
Chrysene	ND		5.0	0.33	ug/L		10/18/23 14:21	10/19/23 13:56	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		10/18/23 14:21	10/19/23 13:56	1
Fluoranthene	ND		5.0	0.40	ug/L		10/18/23 14:21	10/19/23 13:56	1
Fluorene	ND		5.0	0.36	ug/L		10/18/23 14:21	10/19/23 13:56	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		10/18/23 14:21	10/19/23 13:56	1
Naphthalene	ND		5.0	0.76	ug/L		10/18/23 14:21	10/19/23 13:56	1
Phenanthrene	ND		5.0	0.44	ug/L		10/18/23 14:21	10/19/23 13:56	1
Pyrene	ND		5.0	0.34	ug/L		10/18/23 14:21	10/19/23 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		48 - 120	10/18/23 14:21	10/19/23 13:56	1
Nitrobenzene-d5 (Surr)	83		46 - 120	10/18/23 14:21	10/19/23 13:56	1
p-Terphenyl-d14 (Surr)	98		60 - 148	10/18/23 14:21	10/19/23 13:56	1

Lab Sample ID: LCS 480-688004/2-A

Matrix: Water

Analysis Batch: 688103

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	28.3		ug/L		88	60 - 120
Acenaphthylene	32.0	29.4		ug/L		92	63 - 120
Anthracene	32.0	30.9		ug/L		97	67 - 120
Benzo[a]anthracene	32.0	32.8		ug/L		103	70 - 121
Benzo[a]pyrene	32.0	33.1		ug/L		103	60 - 123
Benzo[b]fluoranthene	32.0	34.8		ug/L		109	66 - 126
Benzo[g,h,i]perylene	32.0	32.1		ug/L		100	66 - 150
Benzo[k]fluoranthene	32.0	31.6		ug/L		99	65 - 124
Chrysene	32.0	33.7		ug/L		105	69 - 120
Dibenz(a,h)anthracene	32.0	32.4		ug/L		101	65 - 135
Fluoranthene	32.0	32.1		ug/L		100	69 - 126
Fluorene	32.0	29.4		ug/L		92	66 - 120
Indeno[1,2,3-cd]pyrene	32.0	34.3		ug/L		107	69 - 146
Naphthalene	32.0	26.7		ug/L		83	57 - 120
Phenanthrene	32.0	31.4		ug/L		98	68 - 120
Pyrene	32.0	32.2		ug/L		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	92		48 - 120
Nitrobenzene-d5 (Surr)	93		46 - 120
p-Terphenyl-d14 (Surr)	102		60 - 148

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCSD 480-688004/3-A

Matrix: Water

Analysis Batch: 688103

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 688004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	26.5		ug/L		83	60 - 120	7	24
Acenaphthylene	32.0	28.6		ug/L		90	63 - 120	3	18
Anthracene	32.0	29.8		ug/L		93	67 - 120	4	15
Benzo[a]anthracene	32.0	32.8		ug/L		102	70 - 121	0	15
Benzo[a]pyrene	32.0	32.1		ug/L		100	60 - 123	3	15
Benzo[b]fluoranthene	32.0	34.0		ug/L		106	66 - 126	2	15
Benzo[g,h,i]perylene	32.0	31.4		ug/L		98	66 - 150	2	15
Benzo[k]fluoranthene	32.0	30.7		ug/L		96	65 - 124	3	22
Chrysene	32.0	32.7		ug/L		102	69 - 120	3	15
Dibenz(a,h)anthracene	32.0	31.9		ug/L		100	65 - 135	2	15
Fluoranthene	32.0	31.4		ug/L		98	69 - 126	2	15
Fluorene	32.0	28.2		ug/L		88	66 - 120	4	15
Indeno[1,2,3-cd]pyrene	32.0	33.5		ug/L		105	69 - 146	3	15
Naphthalene	32.0	25.6		ug/L		80	57 - 120	4	29
Phenanthrene	32.0	30.7		ug/L		96	68 - 120	2	15
Pyrene	32.0	31.3		ug/L		98	70 - 125	3	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	91		48 - 120
Nitrobenzene-d5 (Surr)	88		46 - 120
p-Terphenyl-d14 (Surr)	100		60 - 148

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-196421/5

Matrix: Water

Analysis Batch: 196421

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		10000	10000	ug/L			10/14/23 11:01	1

Lab Sample ID: LCS 200-196421/3

Matrix: Water

Analysis Batch: 196421

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	33400		ug/L		83	70 - 130

Lab Sample ID: LCSD 200-196421/4

Matrix: Water

Analysis Batch: 196421

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	38800		ug/L		97	70 - 130	15	30

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 200-196485/5
Matrix: Water
Analysis Batch: 196485

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		10000	10000	ug/L			10/17/23 12:06	1

Lab Sample ID: LCS 200-196485/3
Matrix: Water
Analysis Batch: 196485

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	36000		ug/L		90	70 - 130

Lab Sample ID: LCSD 200-196485/4
Matrix: Water
Analysis Batch: 196485

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	35900		ug/L		90	70 - 130	0	30

Lab Sample ID: 480-213507-2 MS
Matrix: Water
Analysis Batch: 196485

Client Sample ID: MW-8-2-100923
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	44000		40000	75400		ug/L		79	70 - 130

Lab Sample ID: 480-213507-2 MSD
Matrix: Water
Analysis Batch: 196485

Client Sample ID: MW-8-2-100923
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	44000		40000	80500		ug/L		92	70 - 130	7	30

Lab Sample ID: MB 200-196531/5
Matrix: Water
Analysis Batch: 196531

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		10000	10000	ug/L			10/18/23 12:03	1

Lab Sample ID: LCS 200-196531/3
Matrix: Water
Analysis Batch: 196531

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	33400		ug/L		83	70 - 130

Lab Sample ID: LCSD 200-196531/4
Matrix: Water
Analysis Batch: 196531

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	34300		ug/L		86	70 - 130	3	30

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-196579/5

Matrix: Water

Analysis Batch: 196579

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		10000	10000	ug/L			10/19/23 11:51	1

Lab Sample ID: LCS 200-196579/3

Matrix: Water

Analysis Batch: 196579

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	40800		ug/L		102	70 - 130

Lab Sample ID: LCSD 200-196579/4

Matrix: Water

Analysis Batch: 196579

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	39400		ug/L		99	70 - 130	3	30

Lab Sample ID: MB 200-196720/5

Matrix: Water

Analysis Batch: 196720

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		10000	10000	ug/L			10/24/23 12:09	1

Lab Sample ID: LCS 200-196720/3

Matrix: Water

Analysis Batch: 196720

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	36600		ug/L		92	70 - 130

Lab Sample ID: LCSD 200-196720/4

Matrix: Water

Analysis Batch: 196720

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	41700		ug/L		104	70 - 130	13	30

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 196720

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	23000		40000	63000		ug/L		101	70 - 130

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 196720

Client Sample ID: MW-10-2-101323

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	23000		40000	66700		ug/L		110	70 - 130	6	30

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-196760/5

Matrix: Water

Analysis Batch: 196760

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		10000	10000	ug/L			10/25/23 12:11	1

Lab Sample ID: LCS 200-196760/3

Matrix: Water

Analysis Batch: 196760

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	33000		ug/L		82	70 - 130

Lab Sample ID: LCSD 200-196760/4

Matrix: Water

Analysis Batch: 196760

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	40000	39000		ug/L		97	70 - 130	17	30

Lab Sample ID: MB 200-196871/5

Matrix: Water

Analysis Batch: 196871

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		10000	10000	ug/L			10/28/23 11:51	1

Lab Sample ID: LCS 200-196871/3

Matrix: Water

Analysis Batch: 196871

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	32000		ug/L		80	70 - 130

Lab Sample ID: LCSD 200-196871/4

Matrix: Water

Analysis Batch: 196871

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	34500		ug/L		86	70 - 130	7	30

Lab Sample ID: MB 480-686699/3

Matrix: Water

Analysis Batch: 686699

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/10/23 08:36	1
Ethene	ND		7.0	1.5	ug/L			10/10/23 08:36	1
Methane	ND		4.0	1.0	ug/L			10/10/23 08:36	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-686699/4
Matrix: Water
Analysis Batch: 686699

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	35.8		ug/L		98	79 - 120
Ethene	34.0	32.8		ug/L		96	85 - 120
Methane	19.5	18.9		ug/L		97	85 - 120

Lab Sample ID: LCSD 480-686699/5
Matrix: Water
Analysis Batch: 686699

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	36.5	39.1		ug/L		107	79 - 120	9	50
Ethene	34.0	36.0		ug/L		106	85 - 120	9	50
Methane	19.5	20.4		ug/L		105	85 - 120	8	50

Lab Sample ID: MB 480-686896/3
Matrix: Water
Analysis Batch: 686896

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/11/23 08:19	1
Ethene	ND		7.0	1.5	ug/L			10/11/23 08:19	1
Methane	ND		4.0	1.0	ug/L			10/11/23 08:19	1

Lab Sample ID: LCS 480-686896/4
Matrix: Water
Analysis Batch: 686896

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	34.1		ug/L		93	79 - 120
Ethene	34.0	30.4		ug/L		89	85 - 120
Methane	19.5	17.7		ug/L		91	85 - 120

Lab Sample ID: 480-213507-2 MS
Matrix: Water
Analysis Batch: 686896

Client Sample ID: MW-8-2-100923
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	ND		402	426		ug/L		106	76 - 125
Ethene	ND		374	356		ug/L		95	75 - 129
Methane	350	F1	215	753	F1	ug/L		187	38 - 150

Lab Sample ID: 480-213507-2 MSD
Matrix: Water
Analysis Batch: 686896

Client Sample ID: MW-8-2-100923
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		402	391		ug/L		97	76 - 125	9	50
Ethene	ND		374	344		ug/L		92	75 - 129	3	50
Methane	350	F1	215	663		ug/L		146	38 - 150	13	50

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-687149/2
Matrix: Water
Analysis Batch: 687149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/12/23 12:06	1
Ethene	ND		7.0	1.5	ug/L			10/12/23 12:06	1
Methane	ND		4.0	1.0	ug/L			10/12/23 12:06	1

Lab Sample ID: LCS 480-687149/3
Matrix: Water
Analysis Batch: 687149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	33.4		ug/L		91	79 - 120
Ethene	34.0	29.7		ug/L		87	85 - 120
Methane	19.5	17.0		ug/L		87	85 - 120

Lab Sample ID: LCSD 480-687149/4
Matrix: Water
Analysis Batch: 687149

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	36.5	35.1		ug/L		96	79 - 120	5	50
Ethene	34.0	32.0		ug/L		94	85 - 120	7	50
Methane	19.5	17.9		ug/L		92	85 - 120	5	50

Lab Sample ID: MB 480-687283/3
Matrix: Water
Analysis Batch: 687283

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/13/23 10:21	1
Ethene	ND		7.0	1.5	ug/L			10/13/23 10:21	1
Methane	ND		4.0	1.0	ug/L			10/13/23 10:21	1

Lab Sample ID: LCS 480-687283/4
Matrix: Water
Analysis Batch: 687283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	35.5		ug/L		97	79 - 120
Ethene	34.0	31.8		ug/L		93	85 - 120
Methane	19.5	18.4		ug/L		94	85 - 120

Lab Sample ID: LCSD 480-687283/5
Matrix: Water
Analysis Batch: 687283

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	36.5	38.0		ug/L		104	79 - 120	7	50
Ethene	34.0	34.2		ug/L		100	85 - 120	7	50
Methane	19.5	19.6		ug/L		100	85 - 120	6	50

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-687555/3

Matrix: Water

Analysis Batch: 687555

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/16/23 08:37	1
Ethene	ND		7.0	1.5	ug/L			10/16/23 08:37	1
Methane	ND		4.0	1.0	ug/L			10/16/23 08:37	1

Lab Sample ID: LCS 480-687555/4

Matrix: Water

Analysis Batch: 687555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	34.5		ug/L		94	79 - 120
Ethene	34.0	30.6		ug/L		90	85 - 120
Methane	19.5	17.9		ug/L		92	85 - 120

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687555

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	6.9	J	36.5	45.0		ug/L		104	76 - 125
Ethene	88	F1	34.0	145	F1	ug/L		167	75 - 129
Methane	72	F1	19.5	113	F1	ug/L		211	38 - 150

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687555

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethane	6.9	J	36.5	46.2		ug/L		107	76 - 125	3	50
Ethene	88	F1	34.0	141	F1	ug/L		155	75 - 129	3	50
Methane	72	F1	19.5	107	F1	ug/L		177	38 - 150	6	50

Lab Sample ID: MB 480-687909/6

Matrix: Water

Analysis Batch: 687909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/18/23 09:20	1
Ethene	ND		7.0	1.5	ug/L			10/18/23 09:20	1
Methane	ND		4.0	1.0	ug/L			10/18/23 09:20	1

Lab Sample ID: LCS 480-687909/7

Matrix: Water

Analysis Batch: 687909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	33.2		ug/L		91	79 - 120
Ethene	34.0	30.3		ug/L		89	85 - 120
Methane	19.5	16.8		ug/L		86	85 - 120

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCSD 480-687909/8
Matrix: Water
Analysis Batch: 687909

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	36.5	33.5		ug/L		92	79 - 120	1	50
Ethene	34.0	30.0		ug/L		88	85 - 120	1	50
Methane	19.5	17.1		ug/L		88	85 - 120	2	50

Lab Sample ID: MB 480-688078/3
Matrix: Water
Analysis Batch: 688078

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/19/23 09:15	1
Ethene	ND		7.0	1.5	ug/L			10/19/23 09:15	1
Methane	ND		4.0	1.0	ug/L			10/19/23 09:15	1

Lab Sample ID: LCS 480-688078/4
Matrix: Water
Analysis Batch: 688078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	35.8		ug/L		98	79 - 120
Ethene	34.0	32.4		ug/L		95	85 - 120
Methane	19.5	18.3		ug/L		94	85 - 120

Lab Sample ID: LCSD 480-688078/5
Matrix: Water
Analysis Batch: 688078

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	36.5	35.0		ug/L		96	79 - 120	2	50
Ethene	34.0	31.9		ug/L		94	85 - 120	2	50
Methane	19.5	17.8		ug/L		91	85 - 120	3	50

Lab Sample ID: MB 480-688308/3
Matrix: Water
Analysis Batch: 688308

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/20/23 09:47	1
Ethene	ND		7.0	1.5	ug/L			10/20/23 09:47	1
Methane	ND		4.0	1.0	ug/L			10/20/23 09:47	1

Lab Sample ID: LCS 480-688308/4
Matrix: Water
Analysis Batch: 688308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	34.4		ug/L		94	79 - 120
Ethene	34.0	29.6		ug/L		87	85 - 120
Methane	19.5	17.8		ug/L		91	85 - 120

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCSD 480-688308/5
Matrix: Water
Analysis Batch: 688308

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	36.5	34.8		ug/L		95	79 - 120	1	50
Ethene	34.0	30.9		ug/L		91	85 - 120	4	50
Methane	19.5	18.4		ug/L		94	85 - 120	4	50

Lab Sample ID: MB 480-688577/3
Matrix: Water
Analysis Batch: 688577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/23/23 09:44	1
Ethene	ND		7.0	1.5	ug/L			10/23/23 09:44	1
Methane	ND		4.0	1.0	ug/L			10/23/23 09:44	1

Lab Sample ID: LCS 480-688577/4
Matrix: Water
Analysis Batch: 688577

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethane	36.5	35.4		ug/L		97	79 - 120
Ethene	34.0	30.1		ug/L		88	85 - 120
Methane	19.5	18.7		ug/L		96	85 - 120

Lab Sample ID: LCSD 480-688577/5
Matrix: Water
Analysis Batch: 688577

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	36.5	36.1		ug/L		99	79 - 120	2	50
Ethene	34.0	30.6		ug/L		90	85 - 120	2	50
Methane	19.5	19.3		ug/L		99	85 - 120	3	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-686489/1-A
Matrix: Water
Analysis Batch: 687502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/09/23 08:51	10/14/23 23:12	1
Magnesium	ND		0.20	0.043	mg/L		10/09/23 08:51	10/14/23 23:12	1
Manganese	0.000420	J	0.0030	0.00040	mg/L		10/09/23 08:51	10/14/23 23:12	1
Sodium	ND		1.0	0.32	mg/L		10/09/23 08:51	10/14/23 23:12	1

Lab Sample ID: MB 480-686489/1-A
Matrix: Water
Analysis Batch: 687684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		10/09/23 08:51	10/16/23 16:13	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: LCS 480-686489/2-A
Matrix: Water
Analysis Batch: 687502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.60		mg/L		96	80 - 120
Magnesium	10.0	9.39		mg/L		94	80 - 120
Manganese	0.200	0.201		mg/L		100	80 - 120
Sodium	10.0	9.75		mg/L		97	80 - 120

Lab Sample ID: LCS 480-686489/2-A
Matrix: Water
Analysis Batch: 687684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	9.75		mg/L		97	80 - 120

Lab Sample ID: MB 480-686641/1-A
Matrix: Water
Analysis Batch: 688489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/10/23 08:37	10/20/23 13:51	1
Magnesium	ND		0.20	0.043	mg/L		10/10/23 08:37	10/20/23 13:51	1
Manganese	0.000450	J	0.0030	0.00040	mg/L		10/10/23 08:37	10/20/23 13:51	1
Potassium	ND		0.50	0.10	mg/L		10/10/23 08:37	10/20/23 13:51	1
Sodium	ND		1.0	0.32	mg/L		10/10/23 08:37	10/20/23 13:51	1

Lab Sample ID: LCS 480-686641/2-A
Matrix: Water
Analysis Batch: 688489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.74		mg/L		107	80 - 120
Magnesium	10.0	10.12		mg/L		101	80 - 120
Manganese	0.200	0.217		mg/L		109	80 - 120
Potassium	10.0	10.75		mg/L		107	80 - 120
Sodium	10.0	10.61		mg/L		106	80 - 120

Lab Sample ID: MB 480-686837/1-A
Matrix: Water
Analysis Batch: 687088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/11/23 08:37	10/11/23 22:32	1
Magnesium	ND		0.20	0.043	mg/L		10/11/23 08:37	10/11/23 22:32	1
Potassium	ND		0.50	0.10	mg/L		10/11/23 08:37	10/11/23 22:32	1
Sodium	ND		1.0	0.32	mg/L		10/11/23 08:37	10/11/23 22:32	1

Lab Sample ID: MB 480-686837/1-A
Matrix: Water
Analysis Batch: 687366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.000640	J	0.0030	0.00040	mg/L		10/11/23 08:37	10/13/23 12:50	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 480-686837/2-A
Matrix: Water
Analysis Batch: 687088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686837

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	10.56		mg/L		105	80 - 120
Potassium	10.0	9.81		mg/L		98	80 - 120
Sodium	10.0	9.86		mg/L		98	80 - 120

Lab Sample ID: LCS 480-686837/2-A
Matrix: Water
Analysis Batch: 687366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.200	0.213		mg/L		106	80 - 120

Lab Sample ID: LCSD 480-686837/3-A
Matrix: Water
Analysis Batch: 687088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 686837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10.0	9.70		mg/L		97	80 - 120	0	20
Magnesium	10.0	10.75		mg/L		107	80 - 120	2	20
Potassium	10.0	9.71		mg/L		97	80 - 120	1	20
Sodium	10.0	9.77		mg/L		98	80 - 120	1	20

Lab Sample ID: LCSD 480-686837/3-A
Matrix: Water
Analysis Batch: 687366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 686837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.200	0.211		mg/L		105	80 - 120	1	20

Lab Sample ID: 480-213507-2 MS
Matrix: Water
Analysis Batch: 687088

Client Sample ID: MW-8-2-100923
Prep Type: Total/NA
Prep Batch: 686837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	4.5		10.0	13.81		mg/L		93	75 - 125
Magnesium	41.6		10.0	51.54	4	mg/L		99	75 - 125
Potassium	9.6		10.0	20.14		mg/L		106	75 - 125
Sodium	74.1		10.0	90.22	4	mg/L		161	75 - 125

Lab Sample ID: 480-213507-2 MS
Matrix: Water
Analysis Batch: 687366

Client Sample ID: MW-8-2-100923
Prep Type: Total/NA
Prep Batch: 686837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.52	B	0.200	0.689		mg/L		83	75 - 125

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687088

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Prep Batch: 686837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	4.5		10.0	14.10		mg/L		96	75 - 125	2	20
Magnesium	41.6		10.0	51.09	4	mg/L		95	75 - 125	1	20
Potassium	9.6		10.0	19.94		mg/L		104	75 - 125	1	20
Sodium	74.1		10.0	86.57	4	mg/L		124	75 - 125	4	20

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687366

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Prep Batch: 686837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.52	B	0.200	0.704		mg/L		91	75 - 125	2	20

Lab Sample ID: MB 480-687187/1-A

Matrix: Water

Analysis Batch: 688518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/13/23 08:32	10/22/23 03:53	1
Magnesium	ND		0.20	0.043	mg/L		10/13/23 08:32	10/22/23 03:53	1
Manganese	ND		0.0030	0.00040	mg/L		10/13/23 08:32	10/22/23 03:53	1
Potassium	ND		0.50	0.10	mg/L		10/13/23 08:32	10/22/23 03:53	1
Sodium	ND		1.0	0.32	mg/L		10/13/23 08:32	10/22/23 03:53	1

Lab Sample ID: MB 480-687187/1-A

Matrix: Water

Analysis Batch: 688810

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		10/13/23 08:32	10/23/23 17:07	1

Lab Sample ID: LCS 480-687187/2-A

Matrix: Water

Analysis Batch: 688518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.36		mg/L		103	80 - 120
Magnesium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.200	0.220		mg/L		110	80 - 120
Potassium	10.0	10.10		mg/L		101	80 - 120
Sodium	10.0	10.10		mg/L		101	80 - 120

Lab Sample ID: LCS 480-687187/2-A

Matrix: Water

Analysis Batch: 688810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	10.0	9.80		mg/L		98	80 - 120

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-687207/1-A

Matrix: Water

Analysis Batch: 688623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/14/23 08:25	10/22/23 18:38	1
Magnesium	ND		0.20	0.043	mg/L		10/14/23 08:25	10/22/23 18:38	1
Manganese	0.000540	J	0.0030	0.00040	mg/L		10/14/23 08:25	10/22/23 18:38	1
Potassium	ND		0.50	0.10	mg/L		10/14/23 08:25	10/22/23 18:38	1
Sodium	ND		1.0	0.32	mg/L		10/14/23 08:25	10/22/23 18:38	1

Lab Sample ID: LCS 480-687207/2-A

Matrix: Water

Analysis Batch: 688623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.93		mg/L		99	80 - 120
Magnesium	10.0	9.06		mg/L		91	80 - 120
Manganese	0.200	0.211		mg/L		105	80 - 120
Potassium	10.0	10.42		mg/L		104	80 - 120
Sodium	10.0	9.97		mg/L		100	80 - 120

Lab Sample ID: MB 480-687672/1-A

Matrix: Water

Analysis Batch: 688133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.0334	J	0.050	0.019	mg/L		10/17/23 08:51	10/18/23 22:03	1
Magnesium	ND		0.20	0.043	mg/L		10/17/23 08:51	10/18/23 22:03	1
Manganese	ND		0.0030	0.00040	mg/L		10/17/23 08:51	10/18/23 22:03	1
Potassium	0.100	J	0.50	0.10	mg/L		10/17/23 08:51	10/18/23 22:03	1
Sodium	ND		1.0	0.32	mg/L		10/17/23 08:51	10/18/23 22:03	1

Lab Sample ID: LCS 480-687672/2-A

Matrix: Water

Analysis Batch: 688133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.22		mg/L		102	80 - 120
Magnesium	10.0	9.83		mg/L		98	80 - 120
Manganese	0.200	0.211		mg/L		106	80 - 120
Potassium	10.0	10.26		mg/L		103	80 - 120
Sodium	10.0	10.15		mg/L		101	80 - 120

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 688133

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Prep Batch: 687672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.78	B	10.0	11.33		mg/L		105	75 - 125
Magnesium	50.2		10.0	61.18	4	mg/L		110	75 - 125
Manganese	0.23		0.200	0.463		mg/L		118	75 - 125
Potassium	8.9	B	10.0	20.46		mg/L		115	75 - 125

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 688344

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Prep Batch: 687672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	1390		10.0	1422	4	mg/L		318	75 - 125

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 688133

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Prep Batch: 687672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Iron	0.78	B	10.0	10.70		mg/L		99	75 - 125	6	20
Magnesium	50.2		10.0	59.09	4	mg/L		89	75 - 125	3	20
Manganese	0.23		0.200	0.434		mg/L		104	75 - 125	6	20
Potassium	8.9	B	10.0	19.73		mg/L		108	75 - 125	4	20

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 688344

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Prep Batch: 687672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sodium	1390		10.0	1399	4	mg/L		84	75 - 125	2	20

Lab Sample ID: MB 480-687861/1-A

Matrix: Water

Analysis Batch: 688349

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/18/23 08:40	10/19/23 22:19	1
Magnesium	ND		0.20	0.043	mg/L		10/18/23 08:40	10/19/23 22:19	1
Manganese	ND		0.0030	0.00040	mg/L		10/18/23 08:40	10/19/23 22:19	1
Potassium	0.122	J ^+	0.50	0.10	mg/L		10/18/23 08:40	10/19/23 22:19	1
Sodium	ND		1.0	0.32	mg/L		10/18/23 08:40	10/19/23 22:19	1

Lab Sample ID: LCS 480-687861/2-A

Matrix: Water

Analysis Batch: 688349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.99		mg/L		100	80 - 120
Magnesium	10.0	9.63		mg/L		96	80 - 120
Manganese	0.200	0.205		mg/L		102	80 - 120
Potassium	10.0	10.45	^+	mg/L		104	80 - 120
Sodium	10.0	10.31		mg/L		103	80 - 120

Lab Sample ID: MB 480-688231/1-A

Matrix: Water

Analysis Batch: 689001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/20/23 08:40	10/24/23 15:17	1
Magnesium	ND		0.20	0.043	mg/L		10/20/23 08:40	10/24/23 15:17	1
Manganese	0.000550	J	0.0030	0.00040	mg/L		10/20/23 08:40	10/24/23 15:17	1
Potassium	ND		0.50	0.10	mg/L		10/20/23 08:40	10/24/23 15:17	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: MB 480-688231/1-A
Matrix: Water
Analysis Batch: 689001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		1.0	0.32	mg/L		10/20/23 08:40	10/24/23 15:17	1

Lab Sample ID: LCS 480-688231/2-A
Matrix: Water
Analysis Batch: 689001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.51		mg/L		105	80 - 120
Magnesium	10.0	9.70		mg/L		97	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120
Potassium	10.0	10.40		mg/L		104	80 - 120
Sodium	10.0	10.44		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-688231/3-A
Matrix: Water
Analysis Batch: 689001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 688231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10.0	10.38		mg/L		104	80 - 120	1	20
Magnesium	10.0	9.74		mg/L		97	80 - 120	0	20
Manganese	0.200	0.200		mg/L		100	80 - 120	0	20
Potassium	10.0	10.09		mg/L		101	80 - 120	3	20
Sodium	10.0	10.23		mg/L		102	80 - 120	2	20

Lab Sample ID: MB 480-688350/1-A
Matrix: Water
Analysis Batch: 689810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/23/23 08:41	10/28/23 14:00	1
Magnesium	ND		0.20	0.043	mg/L		10/23/23 08:41	10/28/23 14:00	1
Manganese	ND		0.0030	0.00040	mg/L		10/23/23 08:41	10/28/23 14:00	1
Potassium	ND		0.50	0.10	mg/L		10/23/23 08:41	10/28/23 14:00	1
Sodium	ND		1.0	0.32	mg/L		10/23/23 08:41	10/28/23 14:00	1

Lab Sample ID: LCS 480-688350/2-A
Matrix: Water
Analysis Batch: 689810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	10.41		mg/L		104	80 - 120
Magnesium	10.0	9.64		mg/L		96	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Potassium	10.0	10.47		mg/L		105	80 - 120
Sodium	10.0	10.48		mg/L		105	80 - 120

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

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

Lab Sample ID: 480-213871-1 MS

Matrix: Water

Analysis Batch: 689810

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Prep Batch: 688350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	94.5		10.0	105.2	4	mg/L		107	75 - 125
Magnesium	344		10.0	357.6	4	mg/L		131	75 - 125
Manganese	4.1		0.200	4.25	4	mg/L		88	75 - 125
Potassium	39.3		10.0	49.64		mg/L		104	75 - 125
Sodium	163		10.0	175.9	4	mg/L		131	75 - 125

Lab Sample ID: 480-213871-1 MSD

Matrix: Water

Analysis Batch: 689810

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Prep Batch: 688350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	94.5		10.0	102.7	4	mg/L		83	75 - 125	2	20
Magnesium	344		10.0	352.0	4	mg/L		76	75 - 125	2	20
Manganese	4.1		0.200	4.16	4	mg/L		43	75 - 125	2	20
Potassium	39.3		10.0	48.46		mg/L		92	75 - 125	2	20
Sodium	163		10.0	171.9	4	mg/L		91	75 - 125	2	20

Lab Sample ID: MB 480-688411/1-A

Matrix: Water

Analysis Batch: 688802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/23/23 08:44	10/24/23 03:34	1
Magnesium	ND		0.20	0.043	mg/L		10/23/23 08:44	10/24/23 03:34	1
Manganese	ND		0.0030	0.00040	mg/L		10/23/23 08:44	10/24/23 03:34	1
Potassium	ND		0.50	0.10	mg/L		10/23/23 08:44	10/24/23 03:34	1
Sodium	ND		1.0	0.32	mg/L		10/23/23 08:44	10/24/23 03:34	1

Lab Sample ID: LCS 480-688411/2-A

Matrix: Water

Analysis Batch: 688802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10.0	9.97		mg/L		100	80 - 120
Magnesium	10.0	9.91		mg/L		99	80 - 120
Manganese	0.200	0.210		mg/L		105	80 - 120
Potassium	10.0	9.96		mg/L		99	80 - 120
Sodium	10.0	9.99		mg/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-686803/28

Matrix: Water

Analysis Batch: 686803

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/10/23 23:22	1
Sulfate	ND		2.0	0.35	mg/L			10/10/23 23:22	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-686803/29

Matrix: Water

Analysis Batch: 686803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.10		mg/L		98	90 - 110
Sulfate	50.1	50.49		mg/L		101	90 - 110

Lab Sample ID: MB 480-686820/4

Matrix: Water

Analysis Batch: 686820

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/10/23 16:51	1
Sulfate	ND		2.0	0.35	mg/L			10/10/23 16:51	1

Lab Sample ID: LCS 480-686820/5

Matrix: Water

Analysis Batch: 686820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.24		mg/L		98	90 - 110
Sulfate	50.1	49.59		mg/L		99	90 - 110

Lab Sample ID: MB 480-687164/28

Matrix: Water

Analysis Batch: 687164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/12/23 23:28	1
Sulfate	ND		2.0	0.35	mg/L			10/12/23 23:28	1

Lab Sample ID: LCS 480-687164/29

Matrix: Water

Analysis Batch: 687164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.02		mg/L		98	90 - 110
Sulfate	50.1	49.33		mg/L		99	90 - 110

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 687164

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	158		250	399.7		mg/L		97	81 - 120
Sulfate	62.3		250	303.1		mg/L		96	80 - 120

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687164

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	158		250	401.0		mg/L		97	81 - 120	0	15
Sulfate	62.3		250	296.7		mg/L		94	80 - 120	2	15

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-687327/4

Matrix: Water

Analysis Batch: 687327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/13/23 13:29	1
Sulfate	ND		2.0	0.35	mg/L			10/13/23 13:29	1

Lab Sample ID: LCS 480-687327/5

Matrix: Water

Analysis Batch: 687327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.16		mg/L		98	90 - 110
Sulfate	50.1	50.41		mg/L		101	90 - 110

Lab Sample ID: MB 480-687354/28

Matrix: Water

Analysis Batch: 687354

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/13/23 22:57	1
Sulfate	ND		2.0	0.35	mg/L			10/13/23 22:57	1

Lab Sample ID: MB 480-687354/4

Matrix: Water

Analysis Batch: 687354

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/13/23 15:46	1
Sulfate	ND		2.0	0.35	mg/L			10/13/23 15:46	1

Lab Sample ID: LCS 480-687354/29

Matrix: Water

Analysis Batch: 687354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.25		mg/L		98	90 - 110
Sulfate	50.1	49.62		mg/L		99	90 - 110

Lab Sample ID: LCS 480-687354/5

Matrix: Water

Analysis Batch: 687354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	49.15		mg/L		98	90 - 110
Sulfate	50.1	49.48		mg/L		99	90 - 110

Lab Sample ID: 480-213545-2 MS

Matrix: Water

Analysis Batch: 687354

Client Sample ID: MW-8-3-101023

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1790		1000	2667		mg/L		88	81 - 120
Sulfate	73.9		1000	1044		mg/L		97	80 - 120

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-688186/4

Matrix: Water

Analysis Batch: 688186

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/19/23 15:17	1
Sulfate	ND		2.0	0.35	mg/L			10/19/23 15:17	1

Lab Sample ID: LCS 480-688186/5

Matrix: Water

Analysis Batch: 688186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	47.32		mg/L		95	90 - 110
Sulfate	50.1	47.68		mg/L		95	90 - 110

Lab Sample ID: MB 480-688199/28

Matrix: Water

Analysis Batch: 688199

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/19/23 23:35	1
Sulfate	ND		2.0	0.35	mg/L			10/19/23 23:35	1

Lab Sample ID: LCS 480-688199/29

Matrix: Water

Analysis Batch: 688199

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	47.05		mg/L		94	90 - 110
Sulfate	50.1	47.85		mg/L		96	90 - 110

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 688199

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2250		1000	3063		mg/L		81	81 - 120
Sulfate	180		1000	1139		mg/L		96	80 - 120

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 688199

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2250		1000	3056		mg/L		81	81 - 120	0	15
Sulfate	180		1000	1134		mg/L		95	80 - 120	0	15

Lab Sample ID: MB 480-688372/4

Matrix: Water

Analysis Batch: 688372

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/20/23 15:38	1
Sulfate	ND		2.0	0.35	mg/L			10/20/23 15:38	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 480-688372/5

Matrix: Water

Analysis Batch: 688372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	47.09		mg/L		94	90 - 110
Sulfate	50.1	48.11		mg/L		96	90 - 110

Lab Sample ID: 480-213769-3 MS

Matrix: Water

Analysis Batch: 688372

Client Sample ID: BLDG-10-MW-1-101623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	570		501	994.5		mg/L		85	81 - 120
Sulfate	231		501	690.4		mg/L		92	80 - 120

Lab Sample ID: 480-213769-3 MSD

Matrix: Water

Analysis Batch: 688372

Client Sample ID: BLDG-10-MW-1-101623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	570		501	998.6		mg/L		86	81 - 120	0	15
Sulfate	231		501	690.4		mg/L		92	80 - 120	0	15

Lab Sample ID: MB 480-688700/28

Matrix: Water

Analysis Batch: 688700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/24/23 20:56	1
Sulfate	ND		2.0	0.35	mg/L			10/24/23 20:56	1

Lab Sample ID: LCS 480-688700/29

Matrix: Water

Analysis Batch: 688700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	47.07		mg/L		94	90 - 110
Sulfate	50.1	46.93		mg/L		94	90 - 110

Lab Sample ID: MB 480-688856/28

Matrix: Water

Analysis Batch: 688856

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			10/25/23 00:10	1
Sulfate	ND		2.0	0.35	mg/L			10/25/23 00:10	1

Lab Sample ID: LCS 480-688856/29

Matrix: Water

Analysis Batch: 688856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.1	47.11		mg/L		94	90 - 110
Sulfate	50.1	47.32		mg/L		95	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-687049/75

Matrix: Water

Analysis Batch: 687049

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.0141	J	0.020	0.0090	mg/L			10/11/23 17:42	1

Lab Sample ID: LCS 480-687049/76

Matrix: Water

Analysis Batch: 687049

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 480-687384/123

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/13/23 16:00	1

Lab Sample ID: MB 480-687384/27

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/13/23 14:14	1

Lab Sample ID: MB 480-687384/3

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/13/23 13:47	1

Lab Sample ID: MB 480-687384/75

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/13/23 15:07	1

Lab Sample ID: LCS 480-687384/124

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-687384/28

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-687384/4

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-687384/76

Matrix: Water

Analysis Batch: 687384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 687384

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.31	F1	0.200	0.483	F1	mg/L		89	90 - 110

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687384

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.31	F1	0.200	0.471	F1	mg/L		83	90 - 110	3	20

Lab Sample ID: MB 480-688183/123

Matrix: Water

Analysis Batch: 688183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/19/23 11:41	1

Lab Sample ID: MB 480-688183/27

Matrix: Water

Analysis Batch: 688183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/19/23 09:55	1

Lab Sample ID: MB 480-688183/3

Matrix: Water

Analysis Batch: 688183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/19/23 09:29	1

Lab Sample ID: MB 480-688183/51

Matrix: Water

Analysis Batch: 688183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/19/23 10:22	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 480-688183/124
Matrix: Water
Analysis Batch: 688183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-688183/28
Matrix: Water
Analysis Batch: 688183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-688183/4
Matrix: Water
Analysis Batch: 688183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-688183/52
Matrix: Water
Analysis Batch: 688183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 480-213591-1 MS
Matrix: Water
Analysis Batch: 688183

Client Sample ID: MW-7-3-101123
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.6		0.200	1.77	4	mg/L		80	90 - 110

Lab Sample ID: 480-213703-1 MS
Matrix: Water
Analysis Batch: 688183

Client Sample ID: MW-10-2-101323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.30		0.200	0.504		mg/L		104	90 - 110

Lab Sample ID: 480-213703-1 MSD
Matrix: Water
Analysis Batch: 688183

Client Sample ID: MW-10-2-101323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Ammonia	0.30		0.200	0.505		mg/L		104	90 - 110	0	20

Lab Sample ID: MB 480-688360/141
Matrix: Water
Analysis Batch: 688360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/20/23 11:19	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-688360/27

Matrix: Water

Analysis Batch: 688360

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/20/23 09:14	1

Lab Sample ID: MB 480-688360/99

Matrix: Water

Analysis Batch: 688360

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/20/23 10:33	1

Lab Sample ID: LCS 480-688360/100

Matrix: Water

Analysis Batch: 688360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.999		mg/L		100	90 - 110

Lab Sample ID: LCS 480-688360/142

Matrix: Water

Analysis Batch: 688360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-688360/28

Matrix: Water

Analysis Batch: 688360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 480-213871-1 MS

Matrix: Water

Analysis Batch: 688360

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	197		40.0	266.0	4	mg/L		173	90 - 110

Lab Sample ID: 480-213871-1 DU

Matrix: Water

Analysis Batch: 688360

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	197		206.0		mg/L		4	20

Lab Sample ID: MB 480-688851/27

Matrix: Water

Analysis Batch: 688851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/24/23 08:49	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-688851/3
Matrix: Water
Analysis Batch: 688851

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			10/24/23 08:22	1

Lab Sample ID: LCS 480-688851/28
Matrix: Water
Analysis Batch: 688851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.979		mg/L		98	90 - 110

Lab Sample ID: LCS 480-688851/4
Matrix: Water
Analysis Batch: 688851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.998		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-686463/3
Matrix: Water
Analysis Batch: 686463

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	0.0390	J	0.050	0.020	mg/L			10/06/23 19:46	1

Lab Sample ID: LCS 480-686463/4
Matrix: Water
Analysis Batch: 686463

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	1.61		mg/L		107	90 - 110

Lab Sample ID: MB 480-686875/27
Matrix: Water
Analysis Batch: 686875

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/10/23 21:53	1

Lab Sample ID: LCS 480-686875/28
Matrix: Water
Analysis Batch: 686875

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

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 686875

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	F1	1.00	1.15	F1	mg/L		115	90 - 110

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 686875

Client Sample ID: MW-8-2-100923

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	F1	1.00	1.07		mg/L		107	90 - 110	7	20

Lab Sample ID: MB 480-687055/3

Matrix: Water

Analysis Batch: 687055

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/11/23 20:44	1

Lab Sample ID: LCS 480-687055/4

Matrix: Water

Analysis Batch: 687055

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: MB 480-687235/3

Matrix: Water

Analysis Batch: 687235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/12/23 22:16	1

Lab Sample ID: MB 480-687235/75

Matrix: Water

Analysis Batch: 687235

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/12/23 23:55	1

Lab Sample ID: LCS 480-687235/4

Matrix: Water

Analysis Batch: 687235

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	1.63		mg/L		109	90 - 110

Lab Sample ID: LCS 480-687235/76

Matrix: Water

Analysis Batch: 687235

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	1.61		mg/L		107	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-687444/3

Matrix: Water

Analysis Batch: 687444

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/14/23 15:20	1

Lab Sample ID: LCS 480-687444/4

Matrix: Water

Analysis Batch: 687444

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	1.63		mg/L		109	90 - 110

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687444

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	F1	1.00	1.15	F1	mg/L		115	90 - 110

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687444

Client Sample ID: MW-10-2-101323

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	F1	1.00	1.07		mg/L		107	90 - 110	7	20

Lab Sample ID: MB 480-688431/3

Matrix: Water

Analysis Batch: 688431

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/20/23 20:51	1

Lab Sample ID: LCS 480-688431/4

Matrix: Water

Analysis Batch: 688431

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	1.57		mg/L		105	90 - 110

Lab Sample ID: 480-213920-1 MS

Matrix: Water

Analysis Batch: 688431

Client Sample ID: MW-7-5-101923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	0.10	F1	1.00	0.887	F1	mg/L		79	90 - 110

Lab Sample ID: 480-213920-1 DU

Matrix: Water

Analysis Batch: 688431

Client Sample ID: MW-7-5-101923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite	0.10	F1	0.104		mg/L		3	20

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-688609/6

Matrix: Water

Analysis Batch: 688609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L			10/20/23 20:35	1

Lab Sample ID: LCS 480-688609/5

Matrix: Water

Analysis Batch: 688609

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	1.46		mg/L		97	90 - 110

Lab Sample ID: 480-213871-1 MS

Matrix: Water

Analysis Batch: 688609

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite	ND	H	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-213871-1 MSD

Matrix: Water

Analysis Batch: 688609

Client Sample ID: MW-7-P-1-101823

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite	ND	H	1.00	1.03		mg/L		103	90 - 110	3	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-686455/28

Matrix: Water

Analysis Batch: 686455

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/06/23 17:20	1

Lab Sample ID: MB 480-686455/4

Matrix: Water

Analysis Batch: 686455

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/06/23 16:47	1

Lab Sample ID: LCS 480-686455/29

Matrix: Water

Analysis Batch: 686455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.61		mg/L		107	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-686455/5

Matrix: Water

Analysis Batch: 686455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: 480-213439-1 MS

Matrix: Water

Analysis Batch: 686455

Client Sample ID: MW-6-F-8-100623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.19	F1	1.00	1.35	F1	mg/L		116	90 - 110

Lab Sample ID: MB 480-686858/4

Matrix: Water

Analysis Batch: 686858

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/10/23 18:02	1

Lab Sample ID: MB 480-686858/52

Matrix: Water

Analysis Batch: 686858

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/10/23 19:08	1

Lab Sample ID: LCS 480-686858/5

Matrix: Water

Analysis Batch: 686858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.41		mg/L		94	90 - 110

Lab Sample ID: LCS 480-686858/53

Matrix: Water

Analysis Batch: 686858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.40		mg/L		93	90 - 110

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 686858

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND		1.00	0.966		mg/L		97	90 - 110

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 686858

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		1.00	0.986		mg/L		99	90 - 110	2	20

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-687051/4
Matrix: Water
Analysis Batch: 687051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/11/23 17:54	1

Lab Sample ID: LCS 480-687051/5
Matrix: Water
Analysis Batch: 687051

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: 480-213545-1 DU
Matrix: Water
Analysis Batch: 687051

Client Sample ID: MW-8-003-B-101023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.11		0.112		mg/L		3	20

Lab Sample ID: MB 480-687228/4
Matrix: Water
Analysis Batch: 687228

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/12/23 17:01	1

Lab Sample ID: MB 480-687228/76
Matrix: Water
Analysis Batch: 687228

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/12/23 18:40	1

Lab Sample ID: LCS 480-687228/5
Matrix: Water
Analysis Batch: 687228

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: LCS 480-687228/77
Matrix: Water
Analysis Batch: 687228

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.41		mg/L		94	90 - 110

Lab Sample ID: MB 480-687443/4
Matrix: Water
Analysis Batch: 687443

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/14/23 14:18	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 480-687443/5

Matrix: Water

Analysis Batch: 687443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.52		mg/L		101	90 - 110

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687443

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	ND		1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687443

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		1.00	0.957		mg/L		96	90 - 110	8	20

Lab Sample ID: MB 480-687891/4

Matrix: Water

Analysis Batch: 687891

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/17/23 19:26	1

Lab Sample ID: LCS 480-687891/5

Matrix: Water

Analysis Batch: 687891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.45		mg/L		97	90 - 110

Lab Sample ID: MB 480-688047/4

Matrix: Water

Analysis Batch: 688047

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/18/23 18:06	1

Lab Sample ID: MB 480-688047/76

Matrix: Water

Analysis Batch: 688047

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050	0.020	mg/L			10/18/23 19:45	1

Lab Sample ID: LCS 480-688047/5

Matrix: Water

Analysis Batch: 688047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.53		mg/L		102	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 480-688047/77

Matrix: Water

Analysis Batch: 688047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.44		mg/L		96	90 - 110

Lab Sample ID: 480-213811-1 MS

Matrix: Water

Analysis Batch: 688047

Client Sample ID: MW-9-12-101723

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.14		1.00	1.07		mg/L		93	90 - 110

Lab Sample ID: 480-213811-1 DU

Matrix: Water

Analysis Batch: 688047

Client Sample ID: MW-9-12-101723

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.14		0.150		mg/L		5	20

Lab Sample ID: 480-213811-1 DU

Matrix: Water

Analysis Batch: 688047

Client Sample ID: MW-9-12-101723

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.14		0.143		mg/L		0.7	20

Lab Sample ID: MB 480-688426/4

Matrix: Water

Analysis Batch: 688426

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0237	J	0.050	0.020	mg/L			10/20/23 18:27	1

Lab Sample ID: LCS 480-688426/5

Matrix: Water

Analysis Batch: 688426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: 480-213920-1 MS

Matrix: Water

Analysis Batch: 688426

Client Sample ID: MW-7-5-101923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.0	B	1.00	2.02		mg/L		98	90 - 110

Lab Sample ID: 480-213920-1 DU

Matrix: Water

Analysis Batch: 688426

Client Sample ID: MW-7-5-101923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	1.0	B	1.05		mg/L		1	20

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-688608/6
Matrix: Water
Analysis Batch: 688608

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0220	J	0.050	0.020	mg/L			10/19/23 18:24	1

Lab Sample ID: LCS 480-688608/5
Matrix: Water
Analysis Batch: 688608

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: 480-213871-1 MS
Matrix: Water
Analysis Batch: 688608

Client Sample ID: MW-7-P-1-101823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.038	J H B F1	1.00	0.903	F1	mg/L		87	90 - 110

Lab Sample ID: 480-213871-1 MSD
Matrix: Water
Analysis Batch: 688608

Client Sample ID: MW-7-P-1-101823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.038	J H B F1	1.00	0.945		mg/L		91	90 - 110	5	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-686798/4
Matrix: Water
Analysis Batch: 686798

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/09/23 14:26	1

Lab Sample ID: LCS 480-686798/5
Matrix: Water
Analysis Batch: 686798

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	61.33		mg/L		102	90 - 110

Lab Sample ID: MB 480-687150/4
Matrix: Water
Analysis Batch: 687150

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/11/23 12:35	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-687150/5

Matrix: Water

Analysis Batch: 687150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	58.68		mg/L		98	90 - 110

Lab Sample ID: MB 480-687556/4

Matrix: Water

Analysis Batch: 687556

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/12/23 18:47	1

Lab Sample ID: LCS 480-687556/5

Matrix: Water

Analysis Batch: 687556

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	62.15		mg/L		104	90 - 110

Lab Sample ID: 480-213507-2 MS

Matrix: Water

Analysis Batch: 687556

Client Sample ID: MW-8-2-100923

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	ND		23.3	24.71		mg/L		106	54 - 131

Lab Sample ID: 480-213507-2 MSD

Matrix: Water

Analysis Batch: 687556

Client Sample ID: MW-8-2-100923

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	ND		23.3	24.59		mg/L		106	54 - 131	0	20

Lab Sample ID: 480-213545-3 MS

Matrix: Water

Analysis Batch: 687556

Client Sample ID: MW-7-C-2-101023

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	0.89	J	23.3	25.18		mg/L		104	54 - 131

Lab Sample ID: 480-213545-4 DU

Matrix: Water

Analysis Batch: 687556

Client Sample ID: DUPE-101023

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.8		1.76		mg/L		0.4	20

Lab Sample ID: MB 480-687557/28

Matrix: Water

Analysis Batch: 687557

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/14/23 11:26	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-687557/52

Matrix: Water

Analysis Batch: 687557

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/14/23 22:33	1

Lab Sample ID: LCS 480-687557/29

Matrix: Water

Analysis Batch: 687557

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	56.58		mg/L		94	90 - 110

Lab Sample ID: LCS 480-687557/53

Matrix: Water

Analysis Batch: 687557

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	56.64		mg/L		94	90 - 110

Lab Sample ID: MB 480-688287/28

Matrix: Water

Analysis Batch: 688287

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/19/23 11:42	1

Lab Sample ID: LCS 480-688287/29

Matrix: Water

Analysis Batch: 688287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	58.36		mg/L		97	90 - 110

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 688287

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.8		23.3	21.82		mg/L		86	54 - 131

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 688287

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Total Organic Carbon	1.8		23.3	21.65		mg/L		85	54 - 131	1	20

Lab Sample ID: MB 480-688561/28

Matrix: Water

Analysis Batch: 688561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/21/23 11:41	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-688561/52

Matrix: Water

Analysis Batch: 688561

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/21/23 22:52	1

Lab Sample ID: LCS 480-688561/29

Matrix: Water

Analysis Batch: 688561

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	57.16		mg/L		95	90 - 110

Lab Sample ID: LCS 480-688561/53

Matrix: Water

Analysis Batch: 688561

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	57.18		mg/L		95	90 - 110

Lab Sample ID: 480-213769-2 MS

Matrix: Water

Analysis Batch: 688561

Client Sample ID: MW-6-2-101623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.9		23.3	23.24		mg/L		92	54 - 131

Lab Sample ID: 480-213769-3 DU

Matrix: Water

Analysis Batch: 688561

Client Sample ID: BLDG-10-MW-1-101623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	4.7		4.55		mg/L		2	20

Lab Sample ID: MB 480-688870/28

Matrix: Water

Analysis Batch: 688870

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/24/23 01:13	1

Lab Sample ID: LCS 480-688870/29

Matrix: Water

Analysis Batch: 688870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	59.52		mg/L		99	90 - 110

Lab Sample ID: MB 480-689146/28

Matrix: Water

Analysis Batch: 689146

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/25/23 01:55	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-689146/4

Matrix: Water

Analysis Batch: 689146

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/24/23 14:34	1

Lab Sample ID: LCS 480-689146/29

Matrix: Water

Analysis Batch: 689146

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	64.48		mg/L		107	90 - 110

Lab Sample ID: LCS 480-689146/5

Matrix: Water

Analysis Batch: 689146

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	64.59		mg/L		108	90 - 110

Lab Sample ID: MB 480-689318/4

Matrix: Water

Analysis Batch: 689318

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/26/23 00:28	1

Lab Sample ID: LCS 480-689318/5

Matrix: Water

Analysis Batch: 689318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	58.27		mg/L		97	90 - 110

Lab Sample ID: MB 480-689611/4

Matrix: Water

Analysis Batch: 689611

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			10/26/23 14:04	1

Lab Sample ID: LCS 480-689611/5

Matrix: Water

Analysis Batch: 689611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	60.0	59.60		mg/L		99	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-687052/4
Matrix: Water
Analysis Batch: 687052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/10/23 16:28	1

Lab Sample ID: MB 480-687052/52
Matrix: Water
Analysis Batch: 687052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.60	J	5.0	0.79	mg/L			10/11/23 08:39	1

Lab Sample ID: LCS 480-687052/5
Matrix: Water
Analysis Batch: 687052

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	97.92		mg/L		98	90 - 110

Lab Sample ID: LCS 480-687052/53
Matrix: Water
Analysis Batch: 687052

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	96.64		mg/L		97	90 - 110

Lab Sample ID: MB 480-687350/28
Matrix: Water
Analysis Batch: 687350

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	0.880	J	5.0	0.79	mg/L			10/12/23 23:41	1

Lab Sample ID: LCS 480-687350/29
Matrix: Water
Analysis Batch: 687350

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	99.60		mg/L		100	90 - 110

Lab Sample ID: MB 480-687432/28
Matrix: Water
Analysis Batch: 687432

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/13/23 20:30	1

Lab Sample ID: MB 480-687432/4
Matrix: Water
Analysis Batch: 687432

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/13/23 16:56	1

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 480-687432/29
Matrix: Water
Analysis Batch: 687432

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	103.0		mg/L		103	90 - 110

Lab Sample ID: LCS 480-687432/5
Matrix: Water
Analysis Batch: 687432

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	100.9		mg/L		101	90 - 110

Lab Sample ID: 480-213545-1 MS
Matrix: Water
Analysis Batch: 687432

Client Sample ID: MW-8-003-B-101023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	279		100	369.1		mg/L		90	60 - 140

Lab Sample ID: 480-213591-4 MS
Matrix: Water
Analysis Batch: 687432

Client Sample ID: MW-10-3-101123
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	157	F1	100	193.7	F1	mg/L		37	60 - 140

Lab Sample ID: 480-213545-1 DU
Matrix: Water
Analysis Batch: 687432

Client Sample ID: MW-8-003-B-101023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	279		269.5		mg/L		3	20

Lab Sample ID: 480-213591-4 DU
Matrix: Water
Analysis Batch: 687432

Client Sample ID: MW-10-3-101123
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	157	F1	162.2		mg/L		3	20

Lab Sample ID: MB 480-687696/4
Matrix: Water
Analysis Batch: 687696

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/16/23 18:09	1

Lab Sample ID: LCS 480-687696/5
Matrix: Water
Analysis Batch: 687696

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	101.6		mg/L		102	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687696

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	238	F1	100	272.7	F1	mg/L		34	60 - 140

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687696

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	238	F1	100	236.0	F1	mg/L		-2	60 - 140	14	20

Lab Sample ID: MB 480-687890/4

Matrix: Water

Analysis Batch: 687890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.76	J	5.0	0.79	mg/L			10/17/23 17:45	1

Lab Sample ID: LCS 480-687890/5

Matrix: Water

Analysis Batch: 687890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	106.2		mg/L		106	90 - 110

Lab Sample ID: MB 480-688934/28

Matrix: Water

Analysis Batch: 688934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/24/23 10:02	1

Lab Sample ID: MB 480-688934/4

Matrix: Water

Analysis Batch: 688934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	0.79	mg/L			10/23/23 21:27	1

Lab Sample ID: LCS 480-688934/29

Matrix: Water

Analysis Batch: 688934

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	102.7		mg/L		103	90 - 110

Lab Sample ID: LCS 480-688934/5

Matrix: Water

Analysis Batch: 688934

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	101.9		mg/L		102	90 - 110

Eurofins Buffalo

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: SM 2320B - Alkalinity

Lab Sample ID: 480-213811-1 MS
Matrix: Water
Analysis Batch: 688934

Client Sample ID: MW-9-12-101723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	331	F1	100	387.6	F1	mg/L		56	60 - 140

Lab Sample ID: 480-213811-1 DU
Matrix: Water
Analysis Batch: 688934

Client Sample ID: MW-9-12-101723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	331	F1	328.4		mg/L		0.9	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-686712/3
Matrix: Water
Analysis Batch: 686712

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/09/23 13:40	1

Lab Sample ID: LCS 480-686712/4
Matrix: Water
Analysis Batch: 686712

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	7.40	7.60		mg/L		103	90 - 110

Lab Sample ID: MB 480-687215/3
Matrix: Water
Analysis Batch: 687215

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/12/23 15:00	1

Lab Sample ID: LCS 480-687215/4
Matrix: Water
Analysis Batch: 687215

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	6.60	6.40		mg/L		97	90 - 110

Lab Sample ID: MB 480-687871/3
Matrix: Water
Analysis Batch: 687871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/17/23 14:20	1

QC Sample Results

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

Job ID: 480-213392-2
SDG: BCP

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-687871/4

Matrix: Water

Analysis Batch: 687871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	5.40	5.20		mg/L		96	90 - 110

Lab Sample ID: 480-213703-1 MS

Matrix: Water

Analysis Batch: 687871

Client Sample ID: MW-10-2-101323

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND	F1	1.95	2.40		mg/L		123	40 - 150

Lab Sample ID: 480-213703-1 MSD

Matrix: Water

Analysis Batch: 687871

Client Sample ID: MW-10-2-101323

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	F1	1.95	2.40		mg/L		123	40 - 150	0	20

Lab Sample ID: MB 480-688652/3

Matrix: Water

Analysis Batch: 688652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			10/23/23 10:41	1

Lab Sample ID: LCS 480-688652/4

Matrix: Water

Analysis Batch: 688652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	5.40	5.60		mg/L		104	90 - 110

Lab Sample ID: 480-213769-3 MS

Matrix: Water

Analysis Batch: 688652

Client Sample ID: BLDG-10-MW-1-101623

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND	F1	1.85	1.60		mg/L		86	40 - 150

Lab Sample ID: 480-213769-2 DU

Matrix: Water

Analysis Batch: 688652

Client Sample ID: MW-6-2-101623

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

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC/MS VOA

Analysis Batch: 686566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	8260C	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	8260C	
MB 480-686566/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686566/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 686607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	8260C	
MB 480-686607/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686607/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 686979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	8260C	
480-213545-2	MW-8-3-101023	Total/NA	Water	8260C	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	8260C	
480-213545-4	DUPE-101023	Total/NA	Water	8260C	
480-213545-5	MW-7-6-101023	Total/NA	Water	8260C	
480-213545-6	TRIP BLANK	Total/NA	Water	8260C	
MB 480-686979/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686979/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 687016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	8260C	
480-213507-2	MW-8-2-100923	Total/NA	Water	8260C	
480-213507-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-687016/8	Method Blank	Total/NA	Water	8260C	
LCS 480-687016/6	Lab Control Sample	Total/NA	Water	8260C	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	8260C	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	8260C	

Analysis Batch: 687152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-3 - DL	MW-7-C-2-101023	Total/NA	Water	8260C	
480-213591-1	MW-7-3-101123	Total/NA	Water	8260C	
480-213591-2	MW-7-1R-101123	Total/NA	Water	8260C	
480-213591-3	MW-8-4-101123	Total/NA	Water	8260C	
480-213591-4	MW-10-3-101123	Total/NA	Water	8260C	
480-213591-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-687152/8	Method Blank	Total/NA	Water	8260C	
LCS 480-687152/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-687152/32	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 687521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	8260C	
480-213703-2	MW-7-7-101323	Total/NA	Water	8260C	
480-213703-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-687521/8	Method Blank	Total/NA	Water	8260C	
LCS 480-687521/6	Lab Control Sample	Total/NA	Water	8260C	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC/MS VOA (Continued)

Analysis Batch: 687521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	8260C	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	8260C	

Analysis Batch: 687640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-2 - DL	MW-7-7-101323	Total/NA	Water	8260C	
MB 480-687640/8	Method Blank	Total/NA	Water	8260C	
LCS 480-687640/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 687797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	8260C	
480-213769-2	MW-6-2-101623	Total/NA	Water	8260C	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	8260C	
480-213769-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-687797/8	Method Blank	Total/NA	Water	8260C	
LCS 480-687797/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 688181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	8260C	
480-213811-2	MW-7-2-101723	Total/NA	Water	8260C	
480-213811-3	MW-7-8-101723	Total/NA	Water	8260C	
480-213811-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-688181/8	Method Blank	Total/NA	Water	8260C	
LCS 480-688181/6	Lab Control Sample	Total/NA	Water	8260C	
480-213811-3 MS	MW-7-8-101723	Total/NA	Water	8260C	
480-213811-3 MSD	MW-7-8-101723	Total/NA	Water	8260C	

Analysis Batch: 688364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	8260C	
480-213871-2	MW-7-4-101823	Total/NA	Water	8260C	
480-213871-3	TRIP BLANK	Total/NA	Water	8260C	
MB 480-688364/8	Method Blank	Total/NA	Water	8260C	
LCS 480-688364/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 688618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	8260C	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	8260C	
480-213920-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-688618/8	Method Blank	Total/NA	Water	8260C	
LCS 480-688618/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 688822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-3	DUPE-2-101923	Total/NA	Water	8260C	
MB 480-688822/8	Method Blank	Total/NA	Water	8260C	
LCS 480-688822/6	Lab Control Sample	Total/NA	Water	8260C	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC/MS Semi VOA

Prep Batch: 686706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-2	MW-9-101-A-100623	Total/NA	Water	3510C	
MB 480-686706/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-686706/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-686706/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 686737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-2	MW-9-101-A-100623	Total/NA	Water	8270D	686706
MB 480-686706/1-A	Method Blank	Total/NA	Water	8270D	686706
LCS 480-686706/2-A	Lab Control Sample	Total/NA	Water	8270D	686706
LCSD 480-686706/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	686706

Prep Batch: 688004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	3510C	
MB 480-688004/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-688004/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-688004/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 688103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-688004/1-A	Method Blank	Total/NA	Water	8270D	688004
LCS 480-688004/2-A	Lab Control Sample	Total/NA	Water	8270D	688004
LCSD 480-688004/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	688004

Analysis Batch: 688107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	8270D	688004

GC VOA

Analysis Batch: 196421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	RSK-175	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	RSK-175	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	RSK-175	
MB 200-196421/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196421/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196421/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 196485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	RSK-175	
480-213507-2	MW-8-2-100923	Total/NA	Water	RSK-175	
MB 200-196485/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196485/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196485/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	RSK-175	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	RSK-175	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC VOA

Analysis Batch: 196531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	RSK-175	
480-213545-2	MW-8-3-101023	Total/NA	Water	RSK-175	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	RSK-175	
480-213545-4	DUPE-101023	Total/NA	Water	RSK-175	
480-213545-5	MW-7-6-101023	Total/NA	Water	RSK-175	
MB 200-196531/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196531/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196531/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 196579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	RSK-175	
480-213591-2	MW-7-1R-101123	Total/NA	Water	RSK-175	
480-213591-3	MW-8-4-101123	Total/NA	Water	RSK-175	
480-213591-4	MW-10-3-101123	Total/NA	Water	RSK-175	
MB 200-196579/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196579/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196579/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 196720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	RSK-175	
480-213703-2	MW-7-7-101323	Total/NA	Water	RSK-175	
480-213769-1	MW-6-1-101623	Total/NA	Water	RSK-175	
480-213769-2	MW-6-2-101623	Total/NA	Water	RSK-175	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	RSK-175	
480-213811-1	MW-9-12-101723	Total/NA	Water	RSK-175	
480-213811-2	MW-7-2-101723	Total/NA	Water	RSK-175	
480-213811-3	MW-7-8-101723	Total/NA	Water	RSK-175	
MB 200-196720/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196720/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196720/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	RSK-175	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	RSK-175	

Analysis Batch: 196760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	RSK-175	
480-213871-2	MW-7-4-101823	Total/NA	Water	RSK-175	
MB 200-196760/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196760/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196760/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 196871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	RSK-175	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	RSK-175	
480-213920-3	DUPE-2-101923	Total/NA	Water	RSK-175	
MB 200-196871/5	Method Blank	Total/NA	Water	RSK-175	
LCS 200-196871/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-196871/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC VOA

Analysis Batch: 686319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	RSK-175	

Analysis Batch: 686699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	RSK-175	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	RSK-175	
MB 480-686699/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-686699/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-686699/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 686896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	RSK-175	
480-213507-2	MW-8-2-100923	Total/NA	Water	RSK-175	
MB 480-686896/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-686896/4	Lab Control Sample	Total/NA	Water	RSK-175	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	RSK-175	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	RSK-175	

Analysis Batch: 687149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	RSK-175	
480-213545-2	MW-8-3-101023	Total/NA	Water	RSK-175	
480-213545-4	DUPE-101023	Total/NA	Water	RSK-175	
480-213545-5	MW-7-6-101023	Total/NA	Water	RSK-175	
MB 480-687149/2	Method Blank	Total/NA	Water	RSK-175	
LCS 480-687149/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-687149/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 687283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-3	MW-7-C-2-101023	Total/NA	Water	RSK-175	
480-213591-1	MW-7-3-101123	Total/NA	Water	RSK-175	
480-213591-2	MW-7-1R-101123	Total/NA	Water	RSK-175	
480-213591-3	MW-8-4-101123	Total/NA	Water	RSK-175	
480-213591-3 - DL	MW-8-4-101123	Total/NA	Water	RSK-175	
480-213591-4	MW-10-3-101123	Total/NA	Water	RSK-175	
MB 480-687283/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-687283/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-687283/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 687555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	RSK-175	
480-213703-2	MW-7-7-101323	Total/NA	Water	RSK-175	
MB 480-687555/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-687555/4	Lab Control Sample	Total/NA	Water	RSK-175	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	RSK-175	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	RSK-175	

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

GC VOA

Analysis Batch: 687909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	RSK-175	
480-213769-2	MW-6-2-101623	Total/NA	Water	RSK-175	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	RSK-175	
MB 480-687909/6	Method Blank	Total/NA	Water	RSK-175	
LCS 480-687909/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-687909/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 688078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	RSK-175	
480-213811-2	MW-7-2-101723	Total/NA	Water	RSK-175	
480-213811-3	MW-7-8-101723	Total/NA	Water	RSK-175	
MB 480-688078/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-688078/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-688078/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 688308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	RSK-175	
480-213871-1 - DL	MW-7-P-1-101823	Total/NA	Water	RSK-175	
480-213871-2	MW-7-4-101823	Total/NA	Water	RSK-175	
MB 480-688308/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-688308/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-688308/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 688577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	RSK-175	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	RSK-175	
480-213920-2 - DL	MW-7-A-6-101923	Total/NA	Water	RSK-175	
480-213920-3	DUPE-2-101923	Total/NA	Water	RSK-175	
MB 480-688577/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-688577/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-688577/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 686489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	3005A	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	3005A	
MB 480-686489/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-686489/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 686641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	3005A	
MB 480-686641/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-686641/2-A	Lab Control Sample	Total/NA	Water	3005A	

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

Metals

Prep Batch: 686837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	3005A	
480-213507-2	MW-8-2-100923	Total/NA	Water	3005A	
MB 480-686837/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-686837/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-686837/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	3005A	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	3005A	

Analysis Batch: 687088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	6010C	686837
480-213507-2	MW-8-2-100923	Total/NA	Water	6010C	686837
MB 480-686837/1-A	Method Blank	Total/NA	Water	6010C	686837
LCS 480-686837/2-A	Lab Control Sample	Total/NA	Water	6010C	686837
LCSD 480-686837/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	686837
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	6010C	686837
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	6010C	686837

Prep Batch: 687187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	3005A	
480-213545-2	MW-8-3-101023	Total/NA	Water	3005A	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	3005A	
480-213545-4	DUPE-101023	Total/NA	Water	3005A	
480-213545-5	MW-7-6-101023	Total/NA	Water	3005A	
MB 480-687187/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-687187/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 687207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	3005A	
480-213591-2	MW-7-1R-101123	Total/NA	Water	3005A	
480-213591-3	MW-8-4-101123	Total/NA	Water	3005A	
480-213591-4	MW-10-3-101123	Total/NA	Water	3005A	
MB 480-687207/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-687207/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 687366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	6010C	686837
480-213507-2	MW-8-2-100923	Total/NA	Water	6010C	686837
MB 480-686837/1-A	Method Blank	Total/NA	Water	6010C	686837
LCS 480-686837/2-A	Lab Control Sample	Total/NA	Water	6010C	686837
LCSD 480-686837/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	686837
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	6010C	686837
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	6010C	686837

Analysis Batch: 687502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	6010C	686489
480-213439-2	MW-9-101-A-100623	Total/NA	Water	6010C	686489

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

Metals (Continued)

Analysis Batch: 687502 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-686489/1-A	Method Blank	Total/NA	Water	6010C	686489
LCS 480-686489/2-A	Lab Control Sample	Total/NA	Water	6010C	686489

Prep Batch: 687672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	3005A	
480-213703-2	MW-7-7-101323	Total/NA	Water	3005A	
MB 480-687672/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-687672/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	3005A	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	3005A	

Analysis Batch: 687684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-2	MW-9-101-A-100623	Total/NA	Water	6010C	686489
MB 480-686489/1-A	Method Blank	Total/NA	Water	6010C	686489
LCS 480-686489/2-A	Lab Control Sample	Total/NA	Water	6010C	686489

Prep Batch: 687861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	3005A	
480-213769-2	MW-6-2-101623	Total/NA	Water	3005A	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	3005A	
MB 480-687861/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-687861/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 688133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	6010C	687672
480-213703-2	MW-7-7-101323	Total/NA	Water	6010C	687672
MB 480-687672/1-A	Method Blank	Total/NA	Water	6010C	687672
LCS 480-687672/2-A	Lab Control Sample	Total/NA	Water	6010C	687672
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	6010C	687672
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	6010C	687672

Prep Batch: 688231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	3005A	
480-213811-2	MW-7-2-101723	Total/NA	Water	3005A	
480-213811-3	MW-7-8-101723	Total/NA	Water	3005A	
MB 480-688231/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-688231/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-688231/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 688344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	6010C	687672
480-213703-2	MW-7-7-101323	Total/NA	Water	6010C	687672
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	6010C	687672
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	6010C	687672

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

Metals

Analysis Batch: 688349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	6010C	687861
480-213769-2	MW-6-2-101623	Total/NA	Water	6010C	687861
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	6010C	687861
MB 480-687861/1-A	Method Blank	Total/NA	Water	6010C	687861
LCS 480-687861/2-A	Lab Control Sample	Total/NA	Water	6010C	687861

Prep Batch: 688350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	3005A	
480-213871-2	MW-7-4-101823	Total/NA	Water	3005A	
MB 480-688350/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-688350/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-213871-1 MS	MW-7-P-1-101823	Total/NA	Water	3005A	
480-213871-1 MSD	MW-7-P-1-101823	Total/NA	Water	3005A	

Prep Batch: 688411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	3005A	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	3005A	
480-213920-3	DUPE-2-101923	Total/NA	Water	3005A	
MB 480-688411/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-688411/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 688487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	6010C	687861
480-213769-2	MW-6-2-101623	Total/NA	Water	6010C	687861
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	6010C	687861

Analysis Batch: 688489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	6010C	686641
MB 480-686641/1-A	Method Blank	Total/NA	Water	6010C	686641
LCS 480-686641/2-A	Lab Control Sample	Total/NA	Water	6010C	686641

Analysis Batch: 688518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	6010C	687187
480-213545-2	MW-8-3-101023	Total/NA	Water	6010C	687187
480-213545-3	MW-7-C-2-101023	Total/NA	Water	6010C	687187
480-213545-4	DUPE-101023	Total/NA	Water	6010C	687187
480-213545-5	MW-7-6-101023	Total/NA	Water	6010C	687187
MB 480-687187/1-A	Method Blank	Total/NA	Water	6010C	687187
LCS 480-687187/2-A	Lab Control Sample	Total/NA	Water	6010C	687187

Analysis Batch: 688623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	6010C	687207
480-213591-2	MW-7-1R-101123	Total/NA	Water	6010C	687207
480-213591-3	MW-8-4-101123	Total/NA	Water	6010C	687207
480-213591-4	MW-10-3-101123	Total/NA	Water	6010C	687207

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

Metals (Continued)

Analysis Batch: 688623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-687207/1-A	Method Blank	Total/NA	Water	6010C	687207
LCS 480-687207/2-A	Lab Control Sample	Total/NA	Water	6010C	687207

Analysis Batch: 688720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	6010C	686641

Analysis Batch: 688802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	6010C	688411
480-213920-2	MW-7-A-6-101923	Total/NA	Water	6010C	688411
480-213920-3	DUPE-2-101923	Total/NA	Water	6010C	688411
MB 480-688411/1-A	Method Blank	Total/NA	Water	6010C	688411
LCS 480-688411/2-A	Lab Control Sample	Total/NA	Water	6010C	688411

Analysis Batch: 688810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	6010C	687187
480-213545-4	DUPE-101023	Total/NA	Water	6010C	687187
480-213545-5	MW-7-6-101023	Total/NA	Water	6010C	687187
MB 480-687187/1-A	Method Blank	Total/NA	Water	6010C	687187
LCS 480-687187/2-A	Lab Control Sample	Total/NA	Water	6010C	687187

Analysis Batch: 688922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	6010C	687207
480-213591-2	MW-7-1R-101123	Total/NA	Water	6010C	687207
480-213591-3	MW-8-4-101123	Total/NA	Water	6010C	687207

Analysis Batch: 689001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	6010C	688231
480-213811-2	MW-7-2-101723	Total/NA	Water	6010C	688231
480-213811-3	MW-7-8-101723	Total/NA	Water	6010C	688231
MB 480-688231/1-A	Method Blank	Total/NA	Water	6010C	688231
LCS 480-688231/2-A	Lab Control Sample	Total/NA	Water	6010C	688231
LCSD 480-688231/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	688231

Analysis Batch: 689191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-3	MW-7-8-101723	Total/NA	Water	6010C	688231

Analysis Batch: 689810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	6010C	688350
480-213871-2	MW-7-4-101823	Total/NA	Water	6010C	688350
MB 480-688350/1-A	Method Blank	Total/NA	Water	6010C	688350
LCS 480-688350/2-A	Lab Control Sample	Total/NA	Water	6010C	688350
480-213871-1 MS	MW-7-P-1-101823	Total/NA	Water	6010C	688350
480-213871-1 MSD	MW-7-P-1-101823	Total/NA	Water	6010C	688350

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

Metals

Analysis Batch: 692032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	6010C	688411
480-213920-3	DUPE-2-101923	Total/NA	Water	6010C	688411

General Chemistry

Analysis Batch: 686455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	353.2	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	353.2	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	353.2	
MB 480-686455/28	Method Blank	Total/NA	Water	353.2	
MB 480-686455/4	Method Blank	Total/NA	Water	353.2	
LCS 480-686455/29	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-686455/5	Lab Control Sample	Total/NA	Water	353.2	
480-213439-1 MS	MW-6-F-8-100623	Total/NA	Water	353.2	

Analysis Batch: 686463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	353.2	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	353.2	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	353.2	
MB 480-686463/3	Method Blank	Total/NA	Water	353.2	
LCS 480-686463/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 686466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	353.2	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	353.2	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	353.2	

Analysis Batch: 686712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	SM 4500 S2 F	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	SM 4500 S2 F	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	SM 4500 S2 F	
MB 480-686712/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-686712/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 686798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	9060A	
MB 480-686798/4	Method Blank	Total/NA	Water	9060A	
LCS 480-686798/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 686803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	300.0	
MB 480-686803/28	Method Blank	Total/NA	Water	300.0	
LCS 480-686803/29	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry

Analysis Batch: 686820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	300.0	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	300.0	
MB 480-686820/4	Method Blank	Total/NA	Water	300.0	
LCS 480-686820/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 686858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	353.2	
480-213507-2	MW-8-2-100923	Total/NA	Water	353.2	
MB 480-686858/4	Method Blank	Total/NA	Water	353.2	
MB 480-686858/52	Method Blank	Total/NA	Water	353.2	
LCS 480-686858/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-686858/53	Lab Control Sample	Total/NA	Water	353.2	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	353.2	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	353.2	

Analysis Batch: 686871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	353.2	
480-213507-2	MW-8-2-100923	Total/NA	Water	353.2	

Analysis Batch: 686872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	353.2	

Analysis Batch: 686875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-2	MW-8-2-100923	Total/NA	Water	353.2	
MB 480-686875/27	Method Blank	Total/NA	Water	353.2	
LCS 480-686875/28	Lab Control Sample	Total/NA	Water	353.2	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	353.2	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	353.2	

Analysis Batch: 687049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-2	MW-9-101-A-100623	Total/NA	Water	350.1	
MB 480-687049/75	Method Blank	Total/NA	Water	350.1	
LCS 480-687049/76	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 687051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	353.2	
480-213545-2	MW-8-3-101023	Total/NA	Water	353.2	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	353.2	
480-213545-4	DUPE-101023	Total/NA	Water	353.2	
480-213545-5	MW-7-6-101023	Total/NA	Water	353.2	
MB 480-687051/4	Method Blank	Total/NA	Water	353.2	
LCS 480-687051/5	Lab Control Sample	Total/NA	Water	353.2	
480-213545-1 MS	MW-8-003-B-101023	Total/NA	Water	353.2	
480-213545-1 DU	MW-8-003-B-101023	Total/NA	Water	353.2	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry

Analysis Batch: 687052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	SM 2320B	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	SM 2320B	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	SM 2320B	
MB 480-687052/4	Method Blank	Total/NA	Water	SM 2320B	
MB 480-687052/52	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-687052/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-687052/53	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 687055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	353.2	
480-213545-2	MW-8-3-101023	Total/NA	Water	353.2	
480-213545-4	DUPE-101023	Total/NA	Water	353.2	
MB 480-687055/3	Method Blank	Total/NA	Water	353.2	
LCS 480-687055/4	Lab Control Sample	Total/NA	Water	353.2	
480-213545-1 MS	MW-8-003-B-101023	Total/NA	Water	353.2	
480-213545-1 DU	MW-8-003-B-101023	Total/NA	Water	353.2	

Analysis Batch: 687056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	353.2	
480-213545-2	MW-8-3-101023	Total/NA	Water	353.2	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	353.2	
480-213545-4	DUPE-101023	Total/NA	Water	353.2	
480-213545-5	MW-7-6-101023	Total/NA	Water	353.2	

Analysis Batch: 687057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-3	MW-7-C-2-101023	Total/NA	Water	353.2	
480-213545-5	MW-7-6-101023	Total/NA	Water	353.2	

Analysis Batch: 687150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213439-1	MW-6-F-8-100623	Total/NA	Water	9060A	
480-213439-2	MW-9-101-A-100623	Total/NA	Water	9060A	
MB 480-687150/4	Method Blank	Total/NA	Water	9060A	
LCS 480-687150/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 687164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-2	MW-8-2-100923	Total/NA	Water	300.0	
MB 480-687164/28	Method Blank	Total/NA	Water	300.0	
LCS 480-687164/29	Lab Control Sample	Total/NA	Water	300.0	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	300.0	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	300.0	

Analysis Batch: 687215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	SM 4500 S2 F	
480-213507-2	MW-8-2-100923	Total/NA	Water	SM 4500 S2 F	
480-213545-1	MW-8-003-B-101023	Total/NA	Water	SM 4500 S2 F	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 687215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-2	MW-8-3-101023	Total/NA	Water	SM 4500 S2 F	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	SM 4500 S2 F	
480-213545-4	DUPE-101023	Total/NA	Water	SM 4500 S2 F	
480-213545-5	MW-7-6-101023	Total/NA	Water	SM 4500 S2 F	
MB 480-687215/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-687215/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	SM 4500 S2 F	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 687228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	353.2	
480-213591-2	MW-7-1R-101123	Total/NA	Water	353.2	
480-213591-3	MW-8-4-101123	Total/NA	Water	353.2	
480-213591-4	MW-10-3-101123	Total/NA	Water	353.2	
MB 480-687228/4	Method Blank	Total/NA	Water	353.2	
MB 480-687228/76	Method Blank	Total/NA	Water	353.2	
LCS 480-687228/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-687228/77	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 687229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	353.2	
480-213591-2	MW-7-1R-101123	Total/NA	Water	353.2	
480-213591-3	MW-8-4-101123	Total/NA	Water	353.2	
480-213591-4	MW-10-3-101123	Total/NA	Water	353.2	

Analysis Batch: 687230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	353.2	
480-213591-2	MW-7-1R-101123	Total/NA	Water	353.2	
480-213591-3	MW-8-4-101123	Total/NA	Water	353.2	

Analysis Batch: 687235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-4	MW-10-3-101123	Total/NA	Water	353.2	
MB 480-687235/3	Method Blank	Total/NA	Water	353.2	
MB 480-687235/75	Method Blank	Total/NA	Water	353.2	
LCS 480-687235/4	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-687235/76	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 687327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	300.0	
MB 480-687327/4	Method Blank	Total/NA	Water	300.0	
LCS 480-687327/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 687350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	SM 2320B	
480-213507-2	MW-8-2-100923	Total/NA	Water	SM 2320B	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 687350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-687350/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-687350/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 687354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	300.0	
480-213545-2	MW-8-3-101023	Total/NA	Water	300.0	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	300.0	
480-213545-4	DUPE-101023	Total/NA	Water	300.0	
480-213545-5	MW-7-6-101023	Total/NA	Water	300.0	
MB 480-687354/28	Method Blank	Total/NA	Water	300.0	
MB 480-687354/4	Method Blank	Total/NA	Water	300.0	
LCS 480-687354/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-687354/5	Lab Control Sample	Total/NA	Water	300.0	
480-213545-2 MS	MW-8-3-101023	Total/NA	Water	300.0	

Analysis Batch: 687384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213392-4	TK-6-100523	Total/NA	Water	350.1	
480-213439-1	MW-6-F-8-100623	Total/NA	Water	350.1	
480-213507-1	MW-8-1-100923	Total/NA	Water	350.1	
480-213507-2	MW-8-2-100923	Total/NA	Water	350.1	
480-213545-1	MW-8-003-B-101023	Total/NA	Water	350.1	
480-213545-2	MW-8-3-101023	Total/NA	Water	350.1	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	350.1	
480-213545-4	DUPE-101023	Total/NA	Water	350.1	
480-213545-5	MW-7-6-101023	Total/NA	Water	350.1	
MB 480-687384/123	Method Blank	Total/NA	Water	350.1	
MB 480-687384/27	Method Blank	Total/NA	Water	350.1	
MB 480-687384/3	Method Blank	Total/NA	Water	350.1	
MB 480-687384/75	Method Blank	Total/NA	Water	350.1	
LCS 480-687384/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-687384/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-687384/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-687384/76	Lab Control Sample	Total/NA	Water	350.1	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	350.1	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	350.1	

Analysis Batch: 687432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213545-1	MW-8-003-B-101023	Total/NA	Water	SM 2320B	
480-213545-2	MW-8-3-101023	Total/NA	Water	SM 2320B	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	SM 2320B	
480-213545-4	DUPE-101023	Total/NA	Water	SM 2320B	
480-213545-5	MW-7-6-101023	Total/NA	Water	SM 2320B	
480-213591-1	MW-7-3-101123	Total/NA	Water	SM 2320B	
480-213591-2	MW-7-1R-101123	Total/NA	Water	SM 2320B	
480-213591-3	MW-8-4-101123	Total/NA	Water	SM 2320B	
480-213591-4	MW-10-3-101123	Total/NA	Water	SM 2320B	
MB 480-687432/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-687432/4	Method Blank	Total/NA	Water	SM 2320B	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 687432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-687432/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-687432/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-213545-1 MS	MW-8-003-B-101023	Total/NA	Water	SM 2320B	
480-213591-4 MS	MW-10-3-101123	Total/NA	Water	SM 2320B	
480-213545-1 DU	MW-8-003-B-101023	Total/NA	Water	SM 2320B	
480-213591-4 DU	MW-10-3-101123	Total/NA	Water	SM 2320B	

Analysis Batch: 687443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	353.2	
480-213703-2	MW-7-7-101323	Total/NA	Water	353.2	
MB 480-687443/4	Method Blank	Total/NA	Water	353.2	
LCS 480-687443/5	Lab Control Sample	Total/NA	Water	353.2	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	353.2	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	353.2	

Analysis Batch: 687444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	353.2	
MB 480-687444/3	Method Blank	Total/NA	Water	353.2	
LCS 480-687444/4	Lab Control Sample	Total/NA	Water	353.2	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	353.2	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	353.2	

Analysis Batch: 687445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	353.2	
480-213703-2	MW-7-7-101323	Total/NA	Water	353.2	

Analysis Batch: 687450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-2	MW-7-7-101323	Total/NA	Water	353.2	

Analysis Batch: 687556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213507-1	MW-8-1-100923	Total/NA	Water	9060A	
480-213507-2	MW-8-2-100923	Total/NA	Water	9060A	
480-213545-1	MW-8-003-B-101023	Total/NA	Water	9060A	
480-213545-2	MW-8-3-101023	Total/NA	Water	9060A	
480-213545-3	MW-7-C-2-101023	Total/NA	Water	9060A	
480-213545-4	DUPE-101023	Total/NA	Water	9060A	
480-213545-5	MW-7-6-101023	Total/NA	Water	9060A	
MB 480-687556/4	Method Blank	Total/NA	Water	9060A	
LCS 480-687556/5	Lab Control Sample	Total/NA	Water	9060A	
480-213507-2 MS	MW-8-2-100923	Total/NA	Water	9060A	
480-213507-2 MSD	MW-8-2-100923	Total/NA	Water	9060A	
480-213545-3 MS	MW-7-C-2-101023	Total/NA	Water	9060A	
480-213545-4 DU	DUPE-101023	Total/NA	Water	9060A	

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry

Analysis Batch: 687557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	9060A	
480-213591-2	MW-7-1R-101123	Total/NA	Water	9060A	
480-213591-3	MW-8-4-101123	Total/NA	Water	9060A	
480-213591-4	MW-10-3-101123	Total/NA	Water	9060A	
MB 480-687557/28	Method Blank	Total/NA	Water	9060A	
MB 480-687557/52	Method Blank	Total/NA	Water	9060A	
LCS 480-687557/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-687557/53	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 687696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	SM 2320B	
480-213703-2	MW-7-7-101323	Total/NA	Water	SM 2320B	
MB 480-687696/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-687696/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	SM 2320B	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	SM 2320B	

Analysis Batch: 687871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	SM 4500 S2 F	
480-213591-2	MW-7-1R-101123	Total/NA	Water	SM 4500 S2 F	
480-213591-3	MW-8-4-101123	Total/NA	Water	SM 4500 S2 F	
480-213591-4	MW-10-3-101123	Total/NA	Water	SM 4500 S2 F	
480-213703-1	MW-10-2-101323	Total/NA	Water	SM 4500 S2 F	
480-213703-2	MW-7-7-101323	Total/NA	Water	SM 4500 S2 F	
MB 480-687871/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-687871/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	SM 4500 S2 F	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 687890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	SM 2320B	
480-213769-2	MW-6-2-101623	Total/NA	Water	SM 2320B	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	SM 2320B	
MB 480-687890/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-687890/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 687891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	353.2	
480-213769-2	MW-6-2-101623	Total/NA	Water	353.2	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	353.2	
MB 480-687891/4	Method Blank	Total/NA	Water	353.2	
LCS 480-687891/5	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 687892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	353.2	
480-213769-2	MW-6-2-101623	Total/NA	Water	353.2	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 687892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	353.2	

Analysis Batch: 687893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	353.2	
480-213769-2	MW-6-2-101623	Total/NA	Water	353.2	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	353.2	

Analysis Batch: 688047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	353.2	
480-213811-2	MW-7-2-101723	Total/NA	Water	353.2	
480-213811-3	MW-7-8-101723	Total/NA	Water	353.2	
MB 480-688047/4	Method Blank	Total/NA	Water	353.2	
MB 480-688047/76	Method Blank	Total/NA	Water	353.2	
LCS 480-688047/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-688047/77	Lab Control Sample	Total/NA	Water	353.2	
480-213811-1 MS	MW-9-12-101723	Total/NA	Water	353.2	
480-213811-1 DU	MW-9-12-101723	Total/NA	Water	353.2	
480-213811-1 DU	MW-9-12-101723	Total/NA	Water	353.2	

Analysis Batch: 688055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	353.2	
480-213811-2	MW-7-2-101723	Total/NA	Water	353.2	
480-213811-3	MW-7-8-101723	Total/NA	Water	353.2	

Analysis Batch: 688056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	353.2	
480-213811-3	MW-7-8-101723	Total/NA	Water	353.2	

Analysis Batch: 688183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	350.1	
480-213591-2	MW-7-1R-101123	Total/NA	Water	350.1	
480-213591-3	MW-8-4-101123	Total/NA	Water	350.1	
480-213591-4	MW-10-3-101123	Total/NA	Water	350.1	
480-213703-1	MW-10-2-101323	Total/NA	Water	350.1	
480-213703-2	MW-7-7-101323	Total/NA	Water	350.1	
480-213769-1	MW-6-1-101623	Total/NA	Water	350.1	
480-213769-2	MW-6-2-101623	Total/NA	Water	350.1	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	350.1	
480-213811-1	MW-9-12-101723	Total/NA	Water	350.1	
480-213811-2	MW-7-2-101723	Total/NA	Water	350.1	
480-213811-3	MW-7-8-101723	Total/NA	Water	350.1	
MB 480-688183/123	Method Blank	Total/NA	Water	350.1	
MB 480-688183/27	Method Blank	Total/NA	Water	350.1	
MB 480-688183/3	Method Blank	Total/NA	Water	350.1	
MB 480-688183/51	Method Blank	Total/NA	Water	350.1	
LCS 480-688183/124	Lab Control Sample	Total/NA	Water	350.1	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 688183 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-688183/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-688183/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-688183/52	Lab Control Sample	Total/NA	Water	350.1	
480-213591-1 MS	MW-7-3-101123	Total/NA	Water	350.1	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	350.1	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	350.1	

Analysis Batch: 688186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213591-1	MW-7-3-101123	Total/NA	Water	300.0	
480-213591-2	MW-7-1R-101123	Total/NA	Water	300.0	
480-213591-3	MW-8-4-101123	Total/NA	Water	300.0	
480-213591-4	MW-10-3-101123	Total/NA	Water	300.0	
MB 480-688186/4	Method Blank	Total/NA	Water	300.0	
LCS 480-688186/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 688192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-2	MW-7-2-101723	Total/NA	Water	353.2	

Analysis Batch: 688199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	300.0	
480-213703-2	MW-7-7-101323	Total/NA	Water	300.0	
MB 480-688199/28	Method Blank	Total/NA	Water	300.0	
LCS 480-688199/29	Lab Control Sample	Total/NA	Water	300.0	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	300.0	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	300.0	

Analysis Batch: 688287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213703-1	MW-10-2-101323	Total/NA	Water	9060A	
480-213703-2	MW-7-7-101323	Total/NA	Water	9060A	
MB 480-688287/28	Method Blank	Total/NA	Water	9060A	
LCS 480-688287/29	Lab Control Sample	Total/NA	Water	9060A	
480-213703-1 MS	MW-10-2-101323	Total/NA	Water	9060A	
480-213703-1 MSD	MW-10-2-101323	Total/NA	Water	9060A	

Analysis Batch: 688360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	350.1	
480-213871-2	MW-7-4-101823	Total/NA	Water	350.1	
MB 480-688360/141	Method Blank	Total/NA	Water	350.1	
MB 480-688360/27	Method Blank	Total/NA	Water	350.1	
MB 480-688360/99	Method Blank	Total/NA	Water	350.1	
LCS 480-688360/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-688360/142	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-688360/28	Lab Control Sample	Total/NA	Water	350.1	
480-213871-1 MS	MW-7-P-1-101823	Total/NA	Water	350.1	
480-213871-1 DU	MW-7-P-1-101823	Total/NA	Water	350.1	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry

Analysis Batch: 688372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	300.0	
480-213769-2	MW-6-2-101623	Total/NA	Water	300.0	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	300.0	
480-213811-1	MW-9-12-101723	Total/NA	Water	300.0	
480-213811-2	MW-7-2-101723	Total/NA	Water	300.0	
480-213811-3	MW-7-8-101723	Total/NA	Water	300.0	
MB 480-688372/4	Method Blank	Total/NA	Water	300.0	
LCS 480-688372/5	Lab Control Sample	Total/NA	Water	300.0	
480-213769-3 MS	BLDG-10-MW-1-101623	Total/NA	Water	300.0	
480-213769-3 MSD	BLDG-10-MW-1-101623	Total/NA	Water	300.0	

Analysis Batch: 688426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	353.2	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	353.2	
480-213920-3	DUPE-2-101923	Total/NA	Water	353.2	
MB 480-688426/4	Method Blank	Total/NA	Water	353.2	
LCS 480-688426/5	Lab Control Sample	Total/NA	Water	353.2	
480-213920-1 MS	MW-7-5-101923	Total/NA	Water	353.2	
480-213920-1 DU	MW-7-5-101923	Total/NA	Water	353.2	

Analysis Batch: 688431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	353.2	
480-213920-3	DUPE-2-101923	Total/NA	Water	353.2	
MB 480-688431/3	Method Blank	Total/NA	Water	353.2	
LCS 480-688431/4	Lab Control Sample	Total/NA	Water	353.2	
480-213920-1 MS	MW-7-5-101923	Total/NA	Water	353.2	
480-213920-1 DU	MW-7-5-101923	Total/NA	Water	353.2	

Analysis Batch: 688432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	353.2	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	353.2	
480-213920-3	DUPE-2-101923	Total/NA	Water	353.2	

Analysis Batch: 688434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-2	MW-7-A-6-101923	Total/NA	Water	353.2	

Analysis Batch: 688561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	9060A	
480-213769-2	MW-6-2-101623	Total/NA	Water	9060A	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	9060A	
480-213811-1	MW-9-12-101723	Total/NA	Water	9060A	
480-213811-2	MW-7-2-101723	Total/NA	Water	9060A	
480-213811-3	MW-7-8-101723	Total/NA	Water	9060A	
MB 480-688561/28	Method Blank	Total/NA	Water	9060A	
MB 480-688561/52	Method Blank	Total/NA	Water	9060A	
LCS 480-688561/29	Lab Control Sample	Total/NA	Water	9060A	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 688561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-688561/53	Lab Control Sample	Total/NA	Water	9060A	
480-213769-2 MS	MW-6-2-101623	Total/NA	Water	9060A	
480-213769-3 DU	BLDG-10-MW-1-101623	Total/NA	Water	9060A	

Analysis Batch: 688608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	353.2	
480-213871-2	MW-7-4-101823	Total/NA	Water	353.2	
MB 480-688608/6	Method Blank	Total/NA	Water	353.2	
LCS 480-688608/5	Lab Control Sample	Total/NA	Water	353.2	
480-213871-1 MS	MW-7-P-1-101823	Total/NA	Water	353.2	
480-213871-1 MSD	MW-7-P-1-101823	Total/NA	Water	353.2	

Analysis Batch: 688609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	353.2	
480-213871-2	MW-7-4-101823	Total/NA	Water	353.2	
MB 480-688609/6	Method Blank	Total/NA	Water	353.2	
LCS 480-688609/5	Lab Control Sample	Total/NA	Water	353.2	
480-213871-1 MS	MW-7-P-1-101823	Total/NA	Water	353.2	
480-213871-1 MSD	MW-7-P-1-101823	Total/NA	Water	353.2	

Analysis Batch: 688652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213769-1	MW-6-1-101623	Total/NA	Water	SM 4500 S2 F	
480-213769-2	MW-6-2-101623	Total/NA	Water	SM 4500 S2 F	
480-213769-3	BLDG-10-MW-1-101623	Total/NA	Water	SM 4500 S2 F	
480-213811-1	MW-9-12-101723	Total/NA	Water	SM 4500 S2 F	
480-213811-2	MW-7-2-101723	Total/NA	Water	SM 4500 S2 F	
480-213811-3	MW-7-8-101723	Total/NA	Water	SM 4500 S2 F	
480-213871-1	MW-7-P-1-101823	Total/NA	Water	SM 4500 S2 F	
480-213871-2	MW-7-4-101823	Total/NA	Water	SM 4500 S2 F	
480-213920-1	MW-7-5-101923	Total/NA	Water	SM 4500 S2 F	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	SM 4500 S2 F	
480-213920-3	DUPE-2-101923	Total/NA	Water	SM 4500 S2 F	
MB 480-688652/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-688652/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-213769-3 MS	BLDG-10-MW-1-101623	Total/NA	Water	SM 4500 S2 F	
480-213769-2 DU	MW-6-2-101623	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 688700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	300.0	
480-213871-2	MW-7-4-101823	Total/NA	Water	300.0	
MB 480-688700/28	Method Blank	Total/NA	Water	300.0	
LCS 480-688700/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 688851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	350.1	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	350.1	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry (Continued)

Analysis Batch: 688851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-3	DUPE-2-101923	Total/NA	Water	350.1	
MB 480-688851/27	Method Blank	Total/NA	Water	350.1	
MB 480-688851/3	Method Blank	Total/NA	Water	350.1	
LCS 480-688851/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-688851/4	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 688856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	300.0	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	300.0	
480-213920-3	DUPE-2-101923	Total/NA	Water	300.0	
MB 480-688856/28	Method Blank	Total/NA	Water	300.0	
LCS 480-688856/29	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 688870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-2	MW-7-A-6-101923	Total/NA	Water	9060A	
480-213920-3	DUPE-2-101923	Total/NA	Water	9060A	
MB 480-688870/28	Method Blank	Total/NA	Water	9060A	
LCS 480-688870/29	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 688934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213811-1	MW-9-12-101723	Total/NA	Water	SM 2320B	
480-213811-2	MW-7-2-101723	Total/NA	Water	SM 2320B	
480-213811-3	MW-7-8-101723	Total/NA	Water	SM 2320B	
480-213871-1	MW-7-P-1-101823	Total/NA	Water	SM 2320B	
480-213871-2	MW-7-4-101823	Total/NA	Water	SM 2320B	
480-213920-1	MW-7-5-101923	Total/NA	Water	SM 2320B	
480-213920-2	MW-7-A-6-101923	Total/NA	Water	SM 2320B	
480-213920-3	DUPE-2-101923	Total/NA	Water	SM 2320B	
MB 480-688934/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-688934/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-688934/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-688934/5	Lab Control Sample	Total/NA	Water	SM 2320B	
480-213811-1 MS	MW-9-12-101723	Total/NA	Water	SM 2320B	
480-213811-1 DU	MW-9-12-101723	Total/NA	Water	SM 2320B	

Analysis Batch: 689146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-2	MW-7-4-101823	Total/NA	Water	9060A	
MB 480-689146/28	Method Blank	Total/NA	Water	9060A	
MB 480-689146/4	Method Blank	Total/NA	Water	9060A	
LCS 480-689146/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-689146/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 689225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	353.2	
480-213871-2	MW-7-4-101823	Total/NA	Water	353.2	

Eurofins Buffalo

QC Association Summary

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

Job ID: 480-213392-2
SDG: BCP

General Chemistry

Analysis Batch: 689318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213920-1	MW-7-5-101923	Total/NA	Water	9060A	
MB 480-689318/4	Method Blank	Total/NA	Water	9060A	
LCS 480-689318/5	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 689611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-213871-1	MW-7-P-1-101823	Total/NA	Water	9060A	
MB 480-689611/4	Method Blank	Total/NA	Water	9060A	
LCS 480-689611/5	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TK-6-100523

Lab Sample ID: 480-213392-4

Date Collected: 10/05/23 15:30

Matrix: Water

Date Received: 10/05/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	686607	CR	EET BUF	10/10/23 08:27
Total/NA	Analysis	RSK-175		1	196421	RMG	EET BUR	10/14/23 13:13
Total/NA	Analysis	RSK-175		1	686319	MAN	EET BUF	10/06/23 14:32
Total/NA	Prep	3005A			686641	MP	EET BUF	10/10/23 08:37
Total/NA	Analysis	6010C		5	688720	LMH	EET BUF	10/23/23 14:19
Total/NA	Prep	3005A			686641	MP	EET BUF	10/10/23 08:37
Total/NA	Analysis	6010C		1	688489	LMH	EET BUF	10/20/23 14:42
Total/NA	Analysis	300.0		50	686803	AF	EET BUF	10/11/23 01:11
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 13:53
Total/NA	Analysis	353.2		1	686455	KB	EET BUF	10/06/23 16:59
Total/NA	Analysis	353.2		1	686466	KB	EET BUF	10/06/23 16:59
Total/NA	Analysis	353.2		1	686463	KB	EET BUF	10/06/23 19:54
Total/NA	Analysis	9060A		1	686798	AF	EET BUF	10/09/23 18:46
Total/NA	Analysis	SM 2320B		1	687052	KB	EET BUF	10/10/23 17:38
Total/NA	Analysis	SM 4500 S2 F		1	686712	AM	EET BUF	10/09/23 13:40

Client Sample ID: MW-6-F-8-100623

Lab Sample ID: 480-213439-1

Date Collected: 10/06/23 13:00

Matrix: Water

Date Received: 10/06/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686566	ATG	EET BUF	10/09/23 16:40
Total/NA	Analysis	RSK-175		1	196421	RMG	EET BUR	10/14/23 13:23
Total/NA	Analysis	RSK-175		1	686699	MAN	EET BUF	10/10/23 09:35
Total/NA	Prep	3005A			686489	NVK	EET BUF	10/09/23 08:51
Total/NA	Analysis	6010C		1	687502	LMH	EET BUF	10/15/23 00:19
Total/NA	Analysis	300.0		20	686820	AF	EET BUF	10/10/23 18:39
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 13:55
Total/NA	Analysis	353.2		1	686455	KB	EET BUF	10/06/23 17:37
Total/NA	Analysis	353.2		1	686466	KB	EET BUF	10/06/23 17:37
Total/NA	Analysis	353.2		1	686463	KB	EET BUF	10/06/23 20:14
Total/NA	Analysis	9060A		1	687150	AF	EET BUF	10/11/23 22:06
Total/NA	Analysis	SM 2320B		1	687052	KB	EET BUF	10/10/23 19:04
Total/NA	Analysis	SM 4500 S2 F		1	686712	AM	EET BUF	10/09/23 13:40

Client Sample ID: MW-9-101-A-100623

Lab Sample ID: 480-213439-2

Date Collected: 10/06/23 11:00

Matrix: Water

Date Received: 10/06/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686566	ATG	EET BUF	10/09/23 17:03

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-9-101-A-100623

Lab Sample ID: 480-213439-2

Date Collected: 10/06/23 11:00

Matrix: Water

Date Received: 10/06/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			686706	JMP	EET BUF	10/10/23 08:51
Total/NA	Analysis	8270D		1	686737	JMM	EET BUF	10/12/23 00:59
Total/NA	Analysis	RSK-175		1	196421	RMG	EET BUR	10/14/23 13:33
Total/NA	Analysis	RSK-175		1	686699	MAN	EET BUF	10/10/23 09:54
Total/NA	Prep	3005A			686489	NVK	EET BUF	10/09/23 08:51
Total/NA	Analysis	6010C		5	687684	LMH	EET BUF	10/16/23 16:20
Total/NA	Prep	3005A			686489	NVK	EET BUF	10/09/23 08:51
Total/NA	Analysis	6010C		1	687502	LMH	EET BUF	10/15/23 00:33
Total/NA	Analysis	300.0		50	686820	AF	EET BUF	10/10/23 20:27
Total/NA	Analysis	350.1		1	687049	IMZ	EET BUF	10/11/23 17:50
Total/NA	Analysis	353.2		1	686455	KB	EET BUF	10/06/23 17:40
Total/NA	Analysis	353.2		1	686466	KB	EET BUF	10/06/23 17:40
Total/NA	Analysis	353.2		1	686463	KB	EET BUF	10/06/23 20:15
Total/NA	Analysis	9060A		1	687150	AF	EET BUF	10/11/23 22:34
Total/NA	Analysis	SM 2320B		1	687052	KB	EET BUF	10/10/23 19:12
Total/NA	Analysis	SM 4500 S2 F		1	686712	AM	EET BUF	10/09/23 13:40

Client Sample ID: MW-8-1-100923

Lab Sample ID: 480-213507-1

Date Collected: 10/09/23 13:45

Matrix: Water

Date Received: 10/09/23 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687016	AXK	EET BUF	10/11/23 21:24
Total/NA	Analysis	RSK-175		1	196485	RMG	EET BUR	10/17/23 12:57
Total/NA	Analysis	RSK-175		1	686896	MAN	EET BUF	10/11/23 11:46
Total/NA	Prep	3005A			686837	MP	EET BUF	10/11/23 08:37
Total/NA	Analysis	6010C		1	687088	LMH	EET BUF	10/11/23 22:55
Total/NA	Prep	3005A			686837	MP	EET BUF	10/11/23 08:37
Total/NA	Analysis	6010C		1	687366	LMH	EET BUF	10/13/23 13:05
Total/NA	Analysis	300.0		20	687327	AF	EET BUF	10/13/23 17:07
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 14:20
Total/NA	Analysis	353.2		1	686858	KB	EET BUF	10/10/23 18:21
Total/NA	Analysis	353.2		1	686871	KB	EET BUF	10/10/23 18:21
Total/NA	Analysis	353.2		1	686872	KB	EET BUF	10/10/23 18:21
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/12/23 21:06
Total/NA	Analysis	SM 2320B		1	687350	KB	EET BUF	10/13/23 01:05
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-2-100923

Lab Sample ID: 480-213507-2

Date Collected: 10/09/23 11:30

Matrix: Water

Date Received: 10/09/23 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	687016	AXK	EET BUF	10/11/23 21:46
Total/NA	Analysis	RSK-175		1	196485	RMG	EET BUR	10/17/23 13:08
Total/NA	Analysis	RSK-175		11	686896	MAN	EET BUF	10/11/23 10:50
Total/NA	Prep	3005A			686837	MP	EET BUF	10/11/23 08:37
Total/NA	Analysis	6010C		1	687088	LMH	EET BUF	10/11/23 22:59
Total/NA	Prep	3005A			686837	MP	EET BUF	10/11/23 08:37
Total/NA	Analysis	6010C		1	687366	LMH	EET BUF	10/13/23 13:09
Total/NA	Analysis	300.0		5	687164	AF	EET BUF	10/13/23 01:33
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 14:16
Total/NA	Analysis	353.2		1	686858	KB	EET BUF	10/10/23 18:05
Total/NA	Analysis	353.2		1	686871	KB	EET BUF	10/10/23 18:05
Total/NA	Analysis	353.2		1	686875	KB	EET BUF	10/10/23 21:56
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/12/23 19:43
Total/NA	Analysis	SM 2320B		1	687350	KB	EET BUF	10/13/23 01:26
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213507-3

Date Collected: 10/09/23 00:00

Matrix: Water

Date Received: 10/09/23 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687016	AXK	EET BUF	10/11/23 22:07

Client Sample ID: MW-8-003-B-101023

Lab Sample ID: 480-213545-1

Date Collected: 10/10/23 10:00

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	686979	LCH	EET BUF	10/12/23 04:49
Total/NA	Analysis	RSK-175		1	196531	RMG	EET BUR	10/18/23 13:52
Total/NA	Analysis	RSK-175		1	687149	MAN	EET BUF	10/12/23 13:44
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		1	688518	LMH	EET BUF	10/22/23 04:59
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		5	688810	BMB	EET BUF	10/23/23 18:12
Total/NA	Analysis	300.0		20	687354	AF	EET BUF	10/13/23 21:28
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 15:24
Total/NA	Analysis	353.2		1	687051	KB	EET BUF	10/11/23 17:57
Total/NA	Analysis	353.2		1	687056	KB	EET BUF	10/11/23 17:57
Total/NA	Analysis	353.2		1	687055	KB	EET BUF	10/11/23 20:47
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/12/23 22:32
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 17:17

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-8-003-B-101023

Lab Sample ID: 480-213545-1

Date Collected: 10/10/23 10:00

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Client Sample ID: MW-8-3-101023

Lab Sample ID: 480-213545-2

Date Collected: 10/10/23 17:45

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	686979	LCH	EET BUF	10/12/23 05:12
Total/NA	Analysis	RSK-175		1	196531	RMG	EET BUR	10/18/23 14:02
Total/NA	Analysis	RSK-175		1	687149	MAN	EET BUF	10/12/23 14:03
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		1	688518	LMH	EET BUF	10/22/23 05:03
Total/NA	Analysis	300.0		20	687354	AF	EET BUF	10/13/23 21:46
Total/NA	Analysis	350.1		5	687384	IMZ	EET BUF	10/13/23 16:05
Total/NA	Analysis	353.2		1	687051	KB	EET BUF	10/11/23 18:01
Total/NA	Analysis	353.2		1	687056	KB	EET BUF	10/11/23 18:01
Total/NA	Analysis	353.2		1	687055	KB	EET BUF	10/11/23 20:51
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/12/23 23:01
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 17:47
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Client Sample ID: MW-7-C-2-101023

Lab Sample ID: 480-213545-3

Date Collected: 10/10/23 13:30

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	686979	LCH	EET BUF	10/12/23 05:34
Total/NA	Analysis	8260C	DL	10	687152	LCH	EET BUF	10/12/23 17:42
Total/NA	Analysis	RSK-175		1	196531	RMG	EET BUR	10/18/23 14:13
Total/NA	Analysis	RSK-175		1	687283	MAN	EET BUF	10/13/23 11:18
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		1	688518	LMH	EET BUF	10/22/23 05:07
Total/NA	Analysis	300.0		10	687354	AF	EET BUF	10/13/23 23:33
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 15:27
Total/NA	Analysis	353.2		1	687051	KB	EET BUF	10/11/23 18:03
Total/NA	Analysis	353.2		1	687056	KB	EET BUF	10/11/23 18:03
Total/NA	Analysis	353.2		1	687057	KB	EET BUF	10/11/23 18:03
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/13/23 00:25
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 17:54
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: DUPE-101023

Lab Sample ID: 480-213545-4

Date Collected: 10/10/23 14:00

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	686979	LCH	EET BUF	10/12/23 05:56
Total/NA	Analysis	RSK-175		1	196531	RMG	EET BUR	10/18/23 14:23
Total/NA	Analysis	RSK-175		1	687149	MAN	EET BUF	10/12/23 14:41
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		1	688518	LMH	EET BUF	10/22/23 05:11
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		5	688810	BMB	EET BUF	10/23/23 18:16
Total/NA	Analysis	300.0		20	687354	AF	EET BUF	10/13/23 23:51
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 15:28
Total/NA	Analysis	353.2		1	687051	KB	EET BUF	10/11/23 18:04
Total/NA	Analysis	353.2		1	687056	KB	EET BUF	10/11/23 18:04
Total/NA	Analysis	353.2		1	687055	KB	EET BUF	10/11/23 20:53
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/13/23 01:20
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 18:07
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Client Sample ID: MW-7-6-101023

Lab Sample ID: 480-213545-5

Date Collected: 10/10/23 16:45

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	686979	LCH	EET BUF	10/12/23 06:19
Total/NA	Analysis	RSK-175		1	196531	RMG	EET BUR	10/18/23 14:33
Total/NA	Analysis	RSK-175		1	687149	MAN	EET BUF	10/12/23 15:00
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		1	688518	LMH	EET BUF	10/22/23 05:14
Total/NA	Prep	3005A			687187	ESB	EET BUF	10/13/23 08:32
Total/NA	Analysis	6010C		5	688810	BMB	EET BUF	10/23/23 18:20
Total/NA	Analysis	300.0		50	687354	AF	EET BUF	10/14/23 00:09
Total/NA	Analysis	350.1		1	687384	IMZ	EET BUF	10/13/23 15:29
Total/NA	Analysis	353.2		1	687051	KB	EET BUF	10/11/23 18:05
Total/NA	Analysis	353.2		1	687056	KB	EET BUF	10/11/23 18:05
Total/NA	Analysis	353.2		1	687057	KB	EET BUF	10/11/23 18:05
Total/NA	Analysis	9060A		1	687556	AF	EET BUF	10/13/23 02:19
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 18:14
Total/NA	Analysis	SM 4500 S2 F		1	687215	AM	EET BUF	10/12/23 15:00

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213545-6

Date Collected: 10/10/23 00:00

Matrix: Water

Date Received: 10/10/23 18:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	686979	LCH	EET BUF	10/12/23 06:41

Client Sample ID: MW-7-3-101123

Lab Sample ID: 480-213591-1

Date Collected: 10/11/23 10:00

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	687152	LCH	EET BUF	10/12/23 19:57
Total/NA	Analysis	RSK-175		1	196579	RMG	EET BUR	10/19/23 14:11
Total/NA	Analysis	RSK-175		1	687283	MAN	EET BUF	10/13/23 13:48
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		10	688922	BMB	EET BUF	10/24/23 15:59
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		1	688623	LMH	EET BUF	10/22/23 19:16
Total/NA	Analysis	300.0		50	688186	AF	EET BUF	10/19/23 19:28
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 09:34
Total/NA	Analysis	353.2		1	687228	KB	EET BUF	10/12/23 17:08
Total/NA	Analysis	353.2		1	687229	KB	EET BUF	10/12/23 17:08
Total/NA	Analysis	353.2		1	687230	KB	EET BUF	10/12/23 17:08
Total/NA	Analysis	9060A		1	687557	AF	EET BUF	10/14/23 21:09
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 19:57
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Client Sample ID: MW-7-1R-101123

Lab Sample ID: 480-213591-2

Date Collected: 10/11/23 11:30

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	687152	LCH	EET BUF	10/12/23 20:19
Total/NA	Analysis	RSK-175		1	196579	RMG	EET BUR	10/19/23 14:21
Total/NA	Analysis	RSK-175		1	687283	MAN	EET BUF	10/13/23 11:55
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		5	688922	BMB	EET BUF	10/24/23 16:02
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		1	688623	LMH	EET BUF	10/22/23 19:20
Total/NA	Analysis	300.0		20	688186	AF	EET BUF	10/19/23 19:46
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 09:37
Total/NA	Analysis	353.2		1	687228	KB	EET BUF	10/12/23 17:09
Total/NA	Analysis	353.2		1	687229	KB	EET BUF	10/12/23 17:09
Total/NA	Analysis	353.2		1	687230	KB	EET BUF	10/12/23 17:09
Total/NA	Analysis	9060A		1	687557	AF	EET BUF	10/15/23 01:47
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 20:05

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-1R-101123

Lab Sample ID: 480-213591-2

Date Collected: 10/11/23 11:30

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Client Sample ID: MW-8-4-101123

Lab Sample ID: 480-213591-3

Date Collected: 10/11/23 13:30

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687152	LCH	EET BUF	10/12/23 20:41
Total/NA	Analysis	RSK-175		1	196579	RMG	EET BUR	10/19/23 14:31
Total/NA	Analysis	RSK-175		1	687283	MAN	EET BUF	10/13/23 12:14
Total/NA	Analysis	RSK-175	DL	11	687283	MAN	EET BUF	10/13/23 14:07
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		5	688922	BMB	EET BUF	10/24/23 16:06
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		1	688623	LMH	EET BUF	10/22/23 19:24
Total/NA	Analysis	300.0		20	688186	AF	EET BUF	10/19/23 20:04
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 09:38
Total/NA	Analysis	353.2		1	687228	KB	EET BUF	10/12/23 17:11
Total/NA	Analysis	353.2		1	687229	KB	EET BUF	10/12/23 17:11
Total/NA	Analysis	353.2		1	687230	KB	EET BUF	10/12/23 17:11
Total/NA	Analysis	9060A		1	687557	AF	EET BUF	10/15/23 02:16
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 20:12
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Client Sample ID: MW-10-3-101123

Lab Sample ID: 480-213591-4

Date Collected: 10/11/23 15:00

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687152	LCH	EET BUF	10/12/23 21:03
Total/NA	Analysis	RSK-175		1	196579	RMG	EET BUR	10/19/23 14:41
Total/NA	Analysis	RSK-175		1	687283	MAN	EET BUF	10/13/23 12:33
Total/NA	Prep	3005A			687207	NVK	EET BUF	10/14/23 08:25
Total/NA	Analysis	6010C		1	688623	LMH	EET BUF	10/22/23 19:28
Total/NA	Analysis	300.0		5	688186	AF	EET BUF	10/19/23 20:22
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 09:39
Total/NA	Analysis	353.2		1	687228	KB	EET BUF	10/12/23 17:12
Total/NA	Analysis	353.2		1	687229	KB	EET BUF	10/12/23 17:12
Total/NA	Analysis	353.2		1	687235	KB	EET BUF	10/12/23 22:23
Total/NA	Analysis	9060A		1	687557	AF	EET BUF	10/15/23 02:44
Total/NA	Analysis	SM 2320B		1	687432	KB	EET BUF	10/13/23 20:47
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213591-5

Date Collected: 10/11/23 00:00

Matrix: Water

Date Received: 10/11/23 16:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687152	LCH	EET BUF	10/12/23 21:26

Client Sample ID: MW-10-2-101323

Lab Sample ID: 480-213703-1

Date Collected: 10/13/23 10:00

Matrix: Water

Date Received: 10/13/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	687521	AXK	EET BUF	10/16/23 01:33
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 12:48
Total/NA	Analysis	RSK-175		1	687555	MAN	EET BUF	10/16/23 09:54
Total/NA	Prep	3005A			687672	MP	EET BUF	10/17/23 08:51
Total/NA	Analysis	6010C		1	688133	BMB	EET BUF	10/18/23 22:10
Total/NA	Prep	3005A			687672	MP	EET BUF	10/17/23 08:51
Total/NA	Analysis	6010C		5	688344	LMH	EET BUF	10/19/23 19:41
Total/NA	Analysis	300.0		20	688199	AF	EET BUF	10/20/23 01:42
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:09
Total/NA	Analysis	353.2		1	687443	AM	EET BUF	10/14/23 14:20
Total/NA	Analysis	353.2		1	687445	AM	EET BUF	10/14/23 14:20
Total/NA	Analysis	353.2		1	687444	AM	EET BUF	10/14/23 15:23
Total/NA	Analysis	9060A		1	688287	AF	EET BUF	10/19/23 17:19
Total/NA	Analysis	SM 2320B		1	687696	KB	EET BUF	10/16/23 18:27
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Client Sample ID: MW-7-7-101323

Lab Sample ID: 480-213703-2

Date Collected: 10/13/23 13:30

Matrix: Water

Date Received: 10/13/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1000	687521	AXK	EET BUF	10/16/23 01:55
Total/NA	Analysis	8260C	DL	2000	687640	AXK	EET BUF	10/17/23 00:40
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 13:19
Total/NA	Analysis	RSK-175		44	687555	MAN	EET BUF	10/16/23 09:35
Total/NA	Prep	3005A			687672	MP	EET BUF	10/17/23 08:51
Total/NA	Analysis	6010C		1	688133	BMB	EET BUF	10/18/23 22:40
Total/NA	Prep	3005A			687672	MP	EET BUF	10/17/23 08:51
Total/NA	Analysis	6010C		5	688344	LMH	EET BUF	10/19/23 19:59
Total/NA	Analysis	300.0		50	688199	AF	EET BUF	10/20/23 00:11
Total/NA	Analysis	350.1		2	688183	CLT	EET BUF	10/19/23 11:58
Total/NA	Analysis	353.2		1	687443	AM	EET BUF	10/14/23 14:25
Total/NA	Analysis	353.2		1	687445	AM	EET BUF	10/14/23 14:25
Total/NA	Analysis	353.2		1	687450	AM	EET BUF	10/14/23 14:25
Total/NA	Analysis	9060A		1	688287	AF	EET BUF	10/19/23 18:47

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-7-101323

Lab Sample ID: 480-213703-2

Date Collected: 10/13/23 13:30

Matrix: Water

Date Received: 10/13/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	687696	KB	EET BUF	10/16/23 19:40
Total/NA	Analysis	SM 4500 S2 F		1	687871	AM	EET BUF	10/17/23 14:20

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213703-3

Date Collected: 10/13/23 00:00

Matrix: Water

Date Received: 10/13/23 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687521	AXK	EET BUF	10/16/23 02:17

Client Sample ID: MW-6-1-101623

Lab Sample ID: 480-213769-1

Date Collected: 10/16/23 13:00

Matrix: Water

Date Received: 10/16/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687797	AXK	EET BUF	10/17/23 19:24
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 13:50
Total/NA	Analysis	RSK-175		1	687909	MAN	EET BUF	10/18/23 10:18
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688487	LMH	EET BUF	10/20/23 18:51
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688349	LMH	EET BUF	10/19/23 23:24
Total/NA	Analysis	300.0		10	688372	AF	EET BUF	10/20/23 17:09
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:28
Total/NA	Analysis	353.2		1	687891	KB	EET BUF	10/17/23 19:52
Total/NA	Analysis	353.2		1	687892	KB	EET BUF	10/17/23 19:52
Total/NA	Analysis	353.2		1	687893	KB	EET BUF	10/17/23 19:52
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/21/23 15:51
Total/NA	Analysis	SM 2320B		1	687890	KB	EET BUF	10/17/23 20:43
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: MW-6-2-101623

Lab Sample ID: 480-213769-2

Date Collected: 10/16/23 15:00

Matrix: Water

Date Received: 10/16/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687797	AXK	EET BUF	10/17/23 19:46
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 14:01
Total/NA	Analysis	RSK-175		1	687909	MAN	EET BUF	10/18/23 10:37
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688487	LMH	EET BUF	10/20/23 18:55
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688349	LMH	EET BUF	10/19/23 23:28

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-6-2-101623

Lab Sample ID: 480-213769-2

Date Collected: 10/16/23 15:00

Matrix: Water

Date Received: 10/16/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	688372	AF	EET BUF	10/20/23 17:27
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:30
Total/NA	Analysis	353.2		1	687891	KB	EET BUF	10/17/23 19:53
Total/NA	Analysis	353.2		1	687892	KB	EET BUF	10/17/23 19:53
Total/NA	Analysis	353.2		1	687893	KB	EET BUF	10/17/23 19:53
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/21/23 17:15
Total/NA	Analysis	SM 2320B		1	687890	KB	EET BUF	10/17/23 20:53
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: BLDG-10-MW-1-101623

Lab Sample ID: 480-213769-3

Date Collected: 10/16/23 17:00

Matrix: Water

Date Received: 10/16/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5000	687797	AXK	EET BUF	10/17/23 20:08
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 14:11
Total/NA	Analysis	RSK-175		1	687909	MAN	EET BUF	10/18/23 10:56
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688487	LMH	EET BUF	10/20/23 18:58
Total/NA	Prep	3005A			687861	ESB	EET BUF	10/18/23 08:40
Total/NA	Analysis	6010C		1	688349	LMH	EET BUF	10/19/23 23:32
Total/NA	Analysis	300.0		10	688372	AF	EET BUF	10/20/23 17:45
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:31
Total/NA	Analysis	353.2		1	687891	KB	EET BUF	10/17/23 19:55
Total/NA	Analysis	353.2		1	687892	KB	EET BUF	10/17/23 19:55
Total/NA	Analysis	353.2		1	687893	KB	EET BUF	10/17/23 19:55
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/21/23 18:10
Total/NA	Analysis	SM 2320B		1	687890	KB	EET BUF	10/17/23 21:01
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213769-4

Date Collected: 10/16/23 00:00

Matrix: Water

Date Received: 10/16/23 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	687797	AXK	EET BUF	10/17/23 20:30

Client Sample ID: MW-9-12-101723

Lab Sample ID: 480-213811-1

Date Collected: 10/17/23 11:00

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688181	ATG	EET BUF	10/19/23 16:24

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-9-12-101723

Lab Sample ID: 480-213811-1

Date Collected: 10/17/23 11:00

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			688004	LSC	EET BUF	10/18/23 14:21
Total/NA	Analysis	8270D		1	688107	JMM	EET BUF	10/20/23 02:56
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 14:42
Total/NA	Analysis	RSK-175		1	688078	MAN	EET BUF	10/19/23 10:11
Total/NA	Prep	3005A			688231	NVK	EET BUF	10/20/23 08:40
Total/NA	Analysis	6010C		1	689001	BMB	EET BUF	10/24/23 16:24
Total/NA	Analysis	300.0		10	688372	AF	EET BUF	10/20/23 19:16
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:42
Total/NA	Analysis	353.2		1	688047	KB	EET BUF	10/18/23 20:04
Total/NA	Analysis	353.2		1	688055	KB	EET BUF	10/18/23 20:04
Total/NA	Analysis	353.2		1	688056	KB	EET BUF	10/18/23 20:04
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/22/23 02:07
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/23/23 21:50
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: MW-7-2-101723

Lab Sample ID: 480-213811-2

Date Collected: 10/17/23 13:00

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688181	ATG	EET BUF	10/19/23 16:47
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 14:52
Total/NA	Analysis	RSK-175		1	688078	MAN	EET BUF	10/19/23 10:30
Total/NA	Prep	3005A			688231	NVK	EET BUF	10/20/23 08:40
Total/NA	Analysis	6010C		1	689001	BMB	EET BUF	10/24/23 16:27
Total/NA	Analysis	300.0		5	688372	AF	EET BUF	10/20/23 19:34
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:43
Total/NA	Analysis	353.2		1	688047	KB	EET BUF	10/18/23 18:13
Total/NA	Analysis	353.2		1	688055	KB	EET BUF	10/18/23 18:13
Total/NA	Analysis	353.2		1	688192	KB	EET BUF	10/18/23 18:13
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/22/23 02:35
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/23/23 22:20
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: MW-7-8-101723

Lab Sample ID: 480-213811-3

Date Collected: 10/17/23 15:30

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	688181	ATG	EET BUF	10/19/23 17:10
Total/NA	Analysis	RSK-175		1	196720	RMG	EET BUR	10/24/23 15:02
Total/NA	Analysis	RSK-175		1	688078	MAN	EET BUF	10/19/23 11:45

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-8-101723

Lab Sample ID: 480-213811-3

Date Collected: 10/17/23 15:30

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			688231	NVK	EET BUF	10/20/23 08:40
Total/NA	Analysis	6010C		1	689001	BMB	EET BUF	10/24/23 16:42
Total/NA	Prep	3005A			688231	NVK	EET BUF	10/20/23 08:40
Total/NA	Analysis	6010C		5	689191	BMB	EET BUF	10/25/23 16:23
Total/NA	Analysis	300.0		50	688372	AF	EET BUF	10/20/23 19:52
Total/NA	Analysis	350.1		1	688183	CLT	EET BUF	10/19/23 10:44
Total/NA	Analysis	353.2		1	688047	KB	EET BUF	10/18/23 18:14
Total/NA	Analysis	353.2		1	688055	KB	EET BUF	10/18/23 18:14
Total/NA	Analysis	353.2		1	688056	KB	EET BUF	10/18/23 18:14
Total/NA	Analysis	9060A		1	688561	AF	EET BUF	10/22/23 03:04
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/23/23 22:30
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213811-4

Date Collected: 10/17/23 00:00

Matrix: Water

Date Received: 10/17/23 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688181	ATG	EET BUF	10/19/23 17:34

Client Sample ID: MW-7-P-1-101823

Lab Sample ID: 480-213871-1

Date Collected: 10/18/23 10:45

Matrix: Water

Date Received: 10/18/23 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	688364	ZN	EET BUF	10/20/23 20:18
Total/NA	Analysis	RSK-175		1	196760	RMG	EET BUR	10/25/23 13:18
Total/NA	Analysis	RSK-175		1	688308	MAN	EET BUF	10/20/23 10:46
Total/NA	Analysis	RSK-175	DL	22	688308	MAN	EET BUF	10/20/23 14:32
Total/NA	Prep	3005A			688350	ESB	EET BUF	10/23/23 08:41
Total/NA	Analysis	6010C		1	689810	BMB	EET BUF	10/28/23 14:07
Total/NA	Analysis	300.0		50	688700	AF	EET BUF	10/25/23 00:51
Total/NA	Analysis	350.1		200	688360	CLT	EET BUF	10/20/23 11:21
Total/NA	Analysis	353.2		1	688608	KB	EET BUF	10/20/23 18:41
Total/NA	Analysis	353.2		1	689225	KB	EET BUF	10/20/23 18:41
Total/NA	Analysis	353.2		1	688609	KB	EET BUF	10/20/23 20:36
Total/NA	Analysis	9060A		1	689611	AF	EET BUF	10/26/23 17:31
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/24/23 09:43
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-4-101823

Lab Sample ID: 480-213871-2

Date Collected: 10/18/23 12:30

Matrix: Water

Date Received: 10/18/23 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688364	ZN	EET BUF	10/20/23 20:43
Total/NA	Analysis	RSK-175		1	196760	RMG	EET BUR	10/25/23 13:28
Total/NA	Analysis	RSK-175		1	688308	MAN	EET BUF	10/20/23 11:05
Total/NA	Prep	3005A			688350	ESB	EET BUF	10/23/23 08:41
Total/NA	Analysis	6010C		1	689810	BMB	EET BUF	10/28/23 14:38
Total/NA	Analysis	300.0		5	688700	AF	EET BUF	10/25/23 01:09
Total/NA	Analysis	350.1		1	688360	CLT	EET BUF	10/20/23 09:37
Total/NA	Analysis	353.2		1	688608	KB	EET BUF	10/19/23 18:35
Total/NA	Analysis	353.2		1	689225	KB	EET BUF	10/19/23 18:35
Total/NA	Analysis	353.2		1	688609	KB	EET BUF	10/20/23 20:37
Total/NA	Analysis	9060A		1	689146	AF	EET BUF	10/24/23 18:55
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/24/23 10:54
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213871-3

Date Collected: 10/18/23 00:00

Matrix: Water

Date Received: 10/18/23 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688364	ZN	EET BUF	10/20/23 21:07

Client Sample ID: MW-7-5-101923

Lab Sample ID: 480-213920-1

Date Collected: 10/19/23 09:50

Matrix: Water

Date Received: 10/19/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	688618	LCH	EET BUF	10/23/23 18:29
Total/NA	Analysis	RSK-175		1	196871	RMG	EET BUR	10/28/23 12:12
Total/NA	Analysis	RSK-175		1	688577	MAN	EET BUF	10/23/23 11:00
Total/NA	Prep	3005A			688411	ESB	EET BUF	10/23/23 08:44
Total/NA	Analysis	6010C		1	688802	LMH	EET BUF	10/24/23 05:00
Total/NA	Prep	3005A			688411	ESB	EET BUF	10/23/23 08:44
Total/NA	Analysis	6010C		10	692032	BMB	EET BUF	11/14/23 16:28
Total/NA	Analysis	300.0		50	688856	AF	EET BUF	10/25/23 05:15
Total/NA	Analysis	350.1		1	688851	CLT	EET BUF	10/24/23 08:39
Total/NA	Analysis	353.2		1	688426	KB	EET BUF	10/20/23 18:30
Total/NA	Analysis	353.2		1	688432	KB	EET BUF	10/20/23 18:30
Total/NA	Analysis	353.2		1	688431	KB	EET BUF	10/20/23 20:54
Total/NA	Analysis	9060A		1	689318	AF	EET BUF	10/26/23 08:05
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/24/23 13:21
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Client Sample ID: MW-7-A-6-101923

Lab Sample ID: 480-213920-2

Date Collected: 10/19/23 11:30

Matrix: Water

Date Received: 10/19/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2000	688618	LCH	EET BUF	10/23/23 18:51
Total/NA	Analysis	RSK-175		1	196871	RMG	EET BUR	10/28/23 12:22
Total/NA	Analysis	RSK-175		1	688577	MAN	EET BUF	10/23/23 11:19
Total/NA	Analysis	RSK-175	DL	22	688577	MAN	EET BUF	10/23/23 12:01
Total/NA	Prep	3005A			688411	ESB	EET BUF	10/23/23 08:44
Total/NA	Analysis	6010C		1	688802	LMH	EET BUF	10/24/23 05:04
Total/NA	Analysis	300.0		20	688856	AF	EET BUF	10/25/23 05:33
Total/NA	Analysis	350.1		1	688851	CLT	EET BUF	10/24/23 08:40
Total/NA	Analysis	353.2		1	688426	KB	EET BUF	10/20/23 18:34
Total/NA	Analysis	353.2		1	688432	KB	EET BUF	10/20/23 18:34
Total/NA	Analysis	353.2		1	688434	KB	EET BUF	10/20/23 18:34
Total/NA	Analysis	9060A		1	688870	AF	EET BUF	10/24/23 10:36
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/24/23 13:32
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: DUPE-2-101923

Lab Sample ID: 480-213920-3

Date Collected: 10/19/23 10:00

Matrix: Water

Date Received: 10/19/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	688822	CR	EET BUF	10/24/23 13:52
Total/NA	Analysis	RSK-175		1	196871	RMG	EET BUR	10/28/23 12:31
Total/NA	Analysis	RSK-175		1	688577	MAN	EET BUF	10/23/23 11:38
Total/NA	Prep	3005A			688411	ESB	EET BUF	10/23/23 08:44
Total/NA	Analysis	6010C		1	688802	LMH	EET BUF	10/24/23 05:07
Total/NA	Prep	3005A			688411	ESB	EET BUF	10/23/23 08:44
Total/NA	Analysis	6010C		10	692032	BMB	EET BUF	11/14/23 16:32
Total/NA	Analysis	300.0		50	688856	AF	EET BUF	10/25/23 05:51
Total/NA	Analysis	350.1		1	688851	CLT	EET BUF	10/24/23 08:41
Total/NA	Analysis	353.2		1	688426	KB	EET BUF	10/20/23 18:35
Total/NA	Analysis	353.2		1	688432	KB	EET BUF	10/20/23 18:35
Total/NA	Analysis	353.2		1	688431	KB	EET BUF	10/20/23 20:58
Total/NA	Analysis	9060A		1	688870	AF	EET BUF	10/24/23 11:06
Total/NA	Analysis	SM 2320B		1	688934	KB	EET BUF	10/24/23 13:41
Total/NA	Analysis	SM 4500 S2 F		1	688652	AM	EET BUF	10/23/23 10:41

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-213920-4

Date Collected: 10/19/23 00:00

Matrix: Water

Date Received: 10/19/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	688618	LCH	EET BUF	10/23/23 19:35

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-213392-2
SDG: BCP

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Accreditation/Certification Summary

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

Job ID: 480-213392-2
SDG: BCP

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-18-24
Florida	NELAP	E87467	06-30-24
Minnesota	NELAP	050-999-436	12-31-23
New Hampshire	NELAP	2006	12-18-23
New Jersey	NELAP	VT972	06-30-24
New York	NELAP	10391	03-31-24
Pennsylvania	NELAP	68-00489	04-30-24
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-24
Virginia	NELAP	460209	12-14-23
Wisconsin	State	399140830	08-31-24

Method Summary

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

Job ID: 480-213392-2
SDG: BCP

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
RSK-175	Dissolved Gases (GC)	RSK	EET BUR
6010C	Metals (ICP)	SW846	EET BUF
300.0	Anions, Ion Chromatography	EPA	EET BUF
350.1	Nitrogen, Ammonia	EPA	EET BUF
353.2	Nitrate	EPA	EET BUF
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET BUF
353.2	Nitrogen, Nitrite	EPA	EET BUF
9060A	Organic Carbon, Total (TOC)	SW846	EET BUF
SM 2320B	Alkalinity	SM	EET BUF
SM 4500 S2 F	Sulfide, Total	SM	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

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

Job ID: 480-213392-2
SDG: BCP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-213392-4	TK-6-100523	Water	10/05/23 15:30	10/05/23 16:30
480-213439-1	MW-6-F-8-100623	Water	10/06/23 13:00	10/06/23 14:10
480-213439-2	MW-9-101-A-100623	Water	10/06/23 11:00	10/06/23 14:10
480-213507-1	MW-8-1-100923	Water	10/09/23 13:45	10/09/23 16:15
480-213507-2	MW-8-2-100923	Water	10/09/23 11:30	10/09/23 16:15
480-213507-3	TRIP BLANK	Water	10/09/23 00:00	10/09/23 16:15
480-213545-1	MW-8-003-B-101023	Water	10/10/23 10:00	10/10/23 18:50
480-213545-2	MW-8-3-101023	Water	10/10/23 17:45	10/10/23 18:50
480-213545-3	MW-7-C-2-101023	Water	10/10/23 13:30	10/10/23 18:50
480-213545-4	DUPE-101023	Water	10/10/23 14:00	10/10/23 18:50
480-213545-5	MW-7-6-101023	Water	10/10/23 16:45	10/10/23 18:50
480-213545-6	TRIP BLANK	Water	10/10/23 00:00	10/10/23 18:50
480-213591-1	MW-7-3-101123	Water	10/11/23 10:00	10/11/23 16:11
480-213591-2	MW-7-1R-101123	Water	10/11/23 11:30	10/11/23 16:11
480-213591-3	MW-8-4-101123	Water	10/11/23 13:30	10/11/23 16:11
480-213591-4	MW-10-3-101123	Water	10/11/23 15:00	10/11/23 16:11
480-213591-5	TRIP BLANK	Water	10/11/23 00:00	10/11/23 16:11
480-213703-1	MW-10-2-101323	Water	10/13/23 10:00	10/13/23 15:30
480-213703-2	MW-7-7-101323	Water	10/13/23 13:30	10/13/23 15:30
480-213703-3	TRIP BLANK	Water	10/13/23 00:00	10/13/23 15:30
480-213769-1	MW-6-1-101623	Water	10/16/23 13:00	10/16/23 18:00
480-213769-2	MW-6-2-101623	Water	10/16/23 15:00	10/16/23 18:00
480-213769-3	BLDG-10-MW-1-101623	Water	10/16/23 17:00	10/16/23 18:00
480-213769-4	TRIP BLANK	Water	10/16/23 00:00	10/16/23 18:00
480-213811-1	MW-9-12-101723	Water	10/17/23 11:00	10/17/23 15:40
480-213811-2	MW-7-2-101723	Water	10/17/23 13:00	10/17/23 15:40
480-213811-3	MW-7-8-101723	Water	10/17/23 15:30	10/17/23 15:40
480-213811-4	TRIP BLANK	Water	10/17/23 00:00	10/17/23 15:40
480-213871-1	MW-7-P-1-101823	Water	10/18/23 10:45	10/18/23 13:45
480-213871-2	MW-7-4-101823	Water	10/18/23 12:30	10/18/23 13:45
480-213871-3	TRIP BLANK	Water	10/18/23 00:00	10/18/23 13:45
480-213920-1	MW-7-5-101923	Water	10/19/23 09:50	10/19/23 13:00
480-213920-2	MW-7-A-6-101923	Water	10/19/23 11:30	10/19/23 13:00
480-213920-3	DUPE-2-101923	Water	10/19/23 10:00	10/19/23 13:00
480-213920-4	TRIP BLANK	Water	10/19/23 00:00	10/19/23 13:00

Environment Testing

Client Information				Sampler: <u>M. Brown</u> Phone: <u>716 803 5717</u>		Lab PM: Heckler, Denise D E-Mail: Denise.Heckler@et.eurofinsus.com		Carrier Tracking No(s): State of Origin:		COC No: 480-188975-32642.6 Page: 2 of 2																																																																																																																																																																																																																																																															
Client Contact: Mr. Thomas 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 256043 Site: <u>BCP</u>				Due Date Requested: TAT Requested (days): Compliance Project: ☐ Yes ☐ No PO #: _____ Purchase Order Requested WO #: 256043 Project #: 48004014 SSOW#: _____		Analysis Requested		Job #: <u>716056546.22</u> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)		Other: _____																																																																																																																																																																																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <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_CO2 - 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> </tr> </thead> <tbody> <tr> <td>~~TK-6-100623~~ <u>TK-6-100623</u></td> <td><u>10/5/23</u></td> <td><u>1530</u></td> <td><u>G</u></td> <td><u>Water</u></td> <td>☒</td> <td>☒</td> <td><u>X</u></td> <td></td> <td></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td><u>Water</u></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				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	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	~~TK-6-100623~~ <u>TK-6-100623</u>	<u>10/5/23</u>	<u>1530</u>	<u>G</u>	<u>Water</u>	☒	☒	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																				<u>Water</u>																Special Instructions/Note: <u>See D. Heckler for reporting</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 - 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																																																																																																																																																																																																																																																						
~~TK-6-100623~~ <u>TK-6-100623</u>	<u>10/5/23</u>	<u>1530</u>	<u>G</u>	<u>Water</u>	☒	☒	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																																																																																																																																																																																																																																							
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
				<u>Water</u>																																																																																																																																																																																																																																																																					
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: <u>[Signature]</u>				Date/Time: <u>10/5/23 1630</u>		Company: _____		Received by: _____		Date/Time: _____																																																																																																																																																																																																																																																															
Relinquished by: _____				Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____																																																																																																																																																																																																																																																															
Relinquished by: _____				Date/Time: _____		Company: _____		Received by: <u>[Signature]</u>		Date/Time: <u>10/5/23 1630</u>																																																																																																																																																																																																																																																															
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____																																																																																																																																																																																																																																																																					

Ver: 06/08/2021

Environment Testing

[illegible]

Ver: 06/08/2021

[illegible]

Environment Testing

[illegible]

[illegible]

[illegible]

Environ Biol Fish (2015) 98:1111–1121

Ver: 06/08/2021

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Environmental Testing

Client Information		Sampler <i>Morgan Brown</i>		Lab PM Heckler, Denise D		Carrier Tracking No(s)		COC No: 480-188975-32642.14														
Client Contact Mr. Thomas Bohlen		Phone 716 803 5717		E-Mail Denise.Heckler@et.eurofinsus.com		State of Origin		Page: Page 14 of 14														
Company: GZA GeoEnvironmental, Inc.		PWSID		Analysis Requested																		
Address: 300 Pearl St. Suite 700		Due Date Requested:		Job #: 210056546.20 T4																		
City: Buffalo		TAT Requested (days):		Preservation Codes:																		
State, Zip: NY, 14202		Compliance Project: ☐ Yes ☐ No		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)																		
Phone:		PO # 256043		Other:																		
Email: thomas.bohlen@gza.com		WO # 256043																				
Project Name: 058507. GM Lockport SSOW 256043		Project #: 48004014																				
Site: BCP		SSOW#: 256043																				
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	VFA_IC - VFAs	8270D - PAH Semivolatiles	RSK_175_CO2 - Carbon dioxide	300.0_280 - 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-10-2-101323	10/13/23	1000	G	Water		X	X				X	X	X	X	X	X	X	X	X	X		
MW-7-7-101323	10/13/23	1830	G	Water			X				X	X	X	X	X	X	X	X	X			
Trip blank	-	-	-	Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be as)		Return To Client ☐ Disposal By Lab ☐ Archive For _____ (ths)		Special Instructions/QC Requirements:														
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment														
Relinquished by: <i>Morgan Brown</i>		Date/Time: 10/13/23 - 1532		Company: GZA		Received by:		Date/Time:		Company:												
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:												
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:												
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		8.7 # HLE																



480-213703 Chain of Custody

Ver: 06/08/2021

Environmental Testing

[illegible]

Ver: 06/08/2021

[illegible]

Ver: 06/08/2021

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Environmental Testing

Client Information		Sampler: <u>Morgan Brown</u>		Lab PM: Heckler, Denise D		Carrier Tracking No(s):		COC No: 480-188975-32642.7	
Client Contact: Mr. Thomas Bohlen		Phone: <u>(716) 803-5717</u>		E-Mail: Denise.Heckler@et.eurofinsus.com		State of Origin:		Page: 7 of 14	
Company: GZA GeoEnvironmental, Inc.		PWSID:		Analysis Requested		Job #: <u>21.0056546.20 TH</u>		Preservation Codes:	
Address: 300 Pearl St. Suite 700		Due Date 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_280 - 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		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 Y - Trizma Z - other (specify)	
City: Buffalo		TAT Requested (days):				Other:			
State, Zip: NY, 14202		Compliance Project: ☐ Yes ☐ No							
Phone:		PO #:							
Email: thomas.bohlen@gza.com		Purchase Order Requested:							
Project Name: 058507, GM Lockport SSOW 256043		WO #: 256043							
Site: <u>BCP</u>		Project #: 48004014							
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-P-1-101823	10/18/23	1045	G	Water					
MW-7-4-101823	1	1230	G	Water					
Trip blank	-	-	-	Water					
				Water					
				Water					
				Water					
				Water					
				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>Morgan Brown</u>		Date/Time: 10/18/23 1345		Company: GZA		Received by: <u>C. Wallace</u>		Date/Time: 10/18/23 1345	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:		6.16 #1 ICE	

Ver: 06/08/2021

[illegible]

Ver: 06/08/2021

Chain of Custody Record



• eurofins

[illegible]

Chain of Custody Record

[illegible]

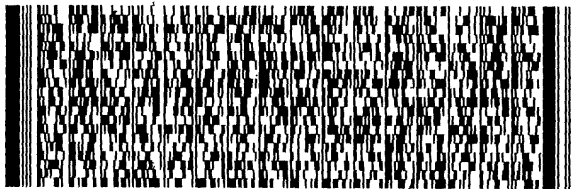
TO **SAMPLE MGT.**
EUROFINS BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 923-1026

REF: TA SOUTH BURLINGTON

IR/VOGE/63585

11 000001 000001 01 01 000001 000001 00 1 000 0000 00 000 1 0 000 1 000 000 000



FedEx
Express



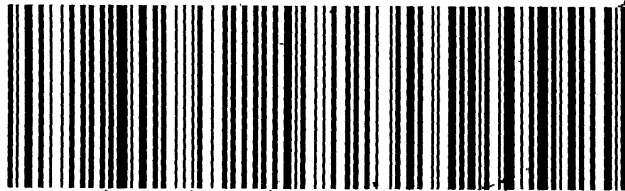
AN 1021508202027

TRK# 6758 4754 8390
0201

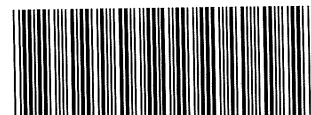
TUE - 10 OCT 10:30A
PRIORITY OVERNIGHT

NX BTVA

05403
VT-US BTV



Chain of Custody Record



eurofins

[illegible]

Ver: 06/08/2021

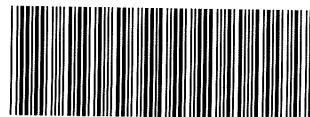
480-213545 Chain of Custody

Ver 06/08/2021



1233029051207114

Chain of Custody Record

[illegible]

Ver: 06/08/2021



1233023051207118

Age Group	Number of People
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15

Chain of Custody Record



En suma, las re-

[illegible]

Ver: 06/08/2021

~~SAMPLE CONTROL~~
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

ACTWGT: 13.15 LB
CAD: 0759273/CAFE3755
DIMS: 15x12x11 IN

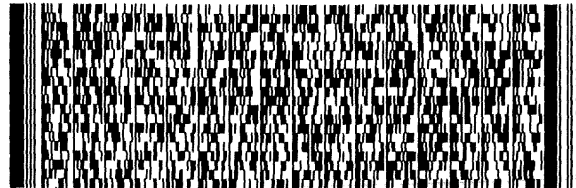
AMHERST, NY 142282223
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIPT**
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 054036650

(802) 860-1990

REF: TA SOUTH BURLINGTON



FedEx
Express

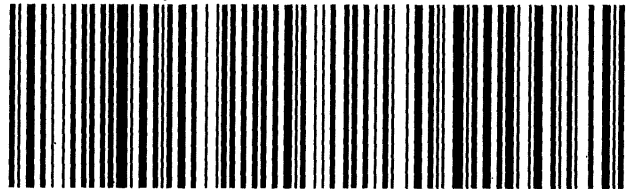


TRK# 7117 9312 5146
0201

TUE - 17 OCT 10:30
PRIORITY OVERNIGHT

NX BTVA

05403
VT-US BTV



Ver 06/08/2021

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

AMHERST, NY 142202223
UNITED STATES US

ACTWGT: 35.15 LB
CAD: 0759273/CAFE3755
DIMS: 23x15x14 IN

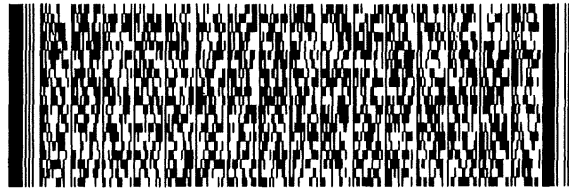
BILL SENDER

585C1/BC08/AED7
J233023051201UY

TO **SAMPLE RECEIPT**
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 054036650

(802) 880-1990

REF: TA SOUTH BURLINGTON



FedEx
Express

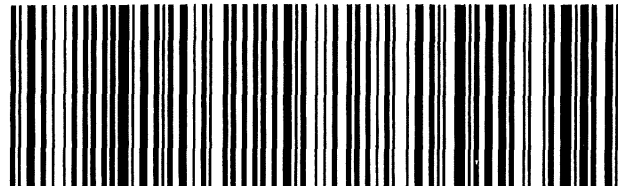


TRK# 7117 9312 5867
0201

THU - 19 OCT 10:30A
PRIORITY OVERNIGHT

NX BTVA

05403
VT-US BTV



10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax 716-691-7991

 eurofins

Ver: 06/08/2021

SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

AMHERST, NY 142292223
UNITED STATES US

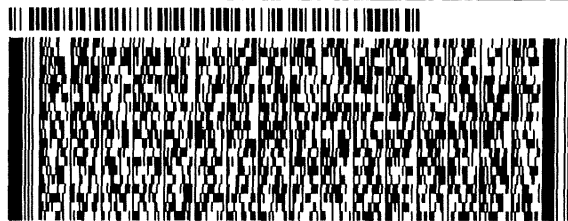
ACTWGT: 35.15 LB
CAD: 0759273/CAFE3755
DIMS: 23x15x14 IN

BILL SENDER

TO **SAMPLE RECEIPT**
EUROFINS BURLINGTON
530 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 054036650

(802) 880-1990

REF: TA SOUTH BURLINGTON



FedEx
Express



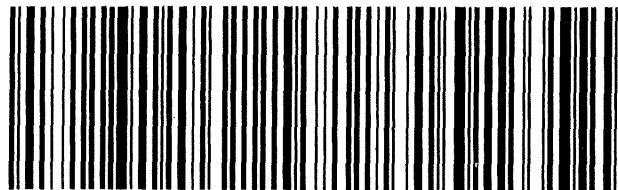
J233023051201 00

TRK# 7117 9312 5867
0201

THU - 19 OCT 10:30A
PRIORITY OVERNIGHT

NX BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213392

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Yes: Received same day of collection; chilling process has begun
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.	False	No: Received extra samples not listed on COC.
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: 480-213392-2

SDG Number: BCP

Login Number: 213392

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/07/23 11:44 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	2225752
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 480-213392-2

SDG Number: BCP

Login Number: 213439

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213439

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/10/23 01:54 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	2225758
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	2.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 480-213392-2

SDG Number: BCP

Login Number: 213507

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213507

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/13/23 04:17 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	2225789, 2225788
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	3.9°C, 1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213545

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213545

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/13/23 04:17 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	2225789, 2225788
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	3.9°C, 1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213591

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213591

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/13/23 04:17 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	2225789, 2225788
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	3.9°C, 1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213703

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213703

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/17/23 03:50 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	2225805
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	3.0°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: 480-213392-2

SDG Number: BCP

Login Number: 213769

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213769

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/19/23 03:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2225812
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 480-213392-2

SDG Number: BCP

Login Number: 213811

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213811

List Number: 2

Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

List Creation: 10/19/23 03:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2225812
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 480-213392-2

SDG Number: BCP

Login Number: 213871

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213871

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/20/23 04:11 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	2225820
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°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: 480-213392-2

SDG Number: BCP

Login Number: 213920

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GZA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-213392-2

SDG Number: BCP

Login Number: 213920

List Number: 2

Creator: Muniz, Luca

List Source: Eurofins Burlington

List Creation: 10/21/23 10:32 AM

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	2225830
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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.