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June 8, 2023
File No. 20.0156045.02

Mr. Timothy Alessi, NR Region Program Manager
Wisconsin Department of Natural Resources
1027 West St. Paul Avenue
Milwaukee, Wisconsin 53233

Re: Enhanced Reductive Dechlorination Performance Monitoring Report
Leather-Rich Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin
BRRTS #02-68-581237

Dear Mr. Alessi:

On behalf of Leather-Rich Inc. (Leather-Rich/"Client"), GZA GeoEnvironmental, Inc. (GZA) is pleased to submit this Enhanced Reductive Dechlorination (ERD) Performance Monitoring Report ("Report") to the Wisconsin Department of Natural Resources (WDNR) for the Leather-Rich facility located at 1250 Corporate Center Drive in Oconomowoc, Wisconsin ("Site"). This Report summarizes the baseline and post-remediation groundwater performance monitoring conducted by GZA from April 2022 through March 2023.

In May 2022, GZA injected an emulsified vegetable oil (EVO) and sodium lactate solution in two areas of the Site as a pilot test to evaluate the use of ERD as a groundwater remediation alternative. The injection and subsequent performance monitoring activities were conducted in accordance with the *WDNR Review Fee for the Project Update, Interim Remediation Design and Specifications, and Temporary Exemption Request for Groundwater Remedial Action Report* ("Groundwater Remedial Action Report"), dated February 1, 2022[1] and approved by the WDNR on March 21, 2022. The *Remedial Implementation Report*,[2] documenting the injection activities was previously submitted to the WDNR on September 16, 2022. This Report presents the groundwater performance evaluation of ERD as a viable remedial alternative. Please note that this report is subject to the Limitations provided in **Attachment 1**.

INTRODUCTION

The Site is an approximately 4-acre parcel within a commercial business park in the City of Oconomowoc, Wisconsin. The Leather-Rich building, constructed in 1993, covers an area of approximately 40,000 square feet and is situated along the southern Site boundary. A Site Location Map is provided as **Figure 1;** a Site Plan that shows the Site layout and features is provided as **Figure 2** and a Site Building Plan, showing the features inside of the building, is provided as **Figure 2A**.

[1] *WDNR Review Fee for the Project Update, Interim Remediation Design and Specifications, and Temporary Exemption Request for Groundwater Remedial Action, Leather-Rich Inc., 1250 Corporate Center Drive, Oconomowoc, Wisconsin, BRRTS #02-68-581237 and #06-68-58959*, dated February 1, 2022, GZA File No. 20.0156045.00.

[2] *Remedial Implementation Report, Leather-Rich Inc., 1250 Corporate Center Drive, Oconomowoc, Wisconsin, BRRTS #02-68-581237*, dated September 16, 2022, GZA File No. 20.0156045.02.

From May 2, 2022 through May 12, 2022, GZA conducted ERD remedial activities at the Site in accordance with the Groundwater Remedial Action Report, dated February 1, 2022, and approved by the WDNR on March 21, 2022. A cumulative total of approximately 795 gallons of Wilclear Plus® and 795 gallons of Lactoil® were injected into the subsurface through the 11 injection points. Seven injection wells were located in the area immediately north of the containment area outside of the building (containment area injection wells) and four injection wells were located along the northwest property boundary (property boundary injection wells). The remedial activities are summarized in a September 16, 2022 Remedial Implementation Report that was previously submitted to the WDNR. The purpose of the ERD injections was to create groundwater conditions to promote the anaerobic degradation of tetrachloroethene (PCE) in groundwater, as well as the degradation products of PCE, including trichloroethene (TCE).

Prior to the commencement of the ERD injection activities, GZA collected baseline groundwater samples on April 5 and 6, 2022, from the existing monitoring well network to establish a pre-injection baseline that can be used to evaluate the performance and progress of the groundwater remediation. Based on the pre-injection baseline groundwater sample evaluation, the injection of an electron donor (carbon source) was determined to be a feasible remedial alternative to promote anaerobic groundwater conditions necessary for effective reductive dechlorination of the chlorinated hydrocarbons. The groundwater laboratory analytical reports for the baseline samples are provided in **Attachment 2**. The groundwater level measurements are provided on **Table 1**, the field parameter measurements are provided on **Table 2**, the groundwater and electron acceptor analytical results are provided on **Table 3**.

POST-ERD INJECTION MONITORING

The purpose of the post-injection monitoring is to evaluate the effectiveness of electron donor injections at creating sufficient anaerobic conditions for reductive dechlorination, and to evaluate the effectiveness of the anaerobic conditions to reduce the chlorinated hydrocarbon concentrations in groundwater. As described in the approved temporary exemption request, post-injection groundwater monitoring events were performed monthly for the three months following injection from select monitoring wells (MW-1, MW-6, MW-7, MW-13, and MW-17) on June 16, July 13, and August 12, 2022, and quarterly from the existing monitoring well network on November 14 and 15, 2022 and March 27 and 28, 2023.

The monitoring wells that were monitored on a monthly basis were selected to observe the performance and groundwater conditions in each injection area where changes in groundwater conditions were expected. The results from MW-1, MW-6, and MW-7 were used to evaluate remedial progress near the containment area and the results from MW-13 and MW-17 were used to evaluate remedial progress near the northwest property boundary.

Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed into each monitoring well. Groundwater was purged from the wells at flow rates of approximately 150 to 350 milliliters per minute (ml/min) prior to sampling. During purging, field parameters (pH, temperature, specific conductivity, turbidity, dissolved oxygen [DO], and oxygen-reduction potential [ORP]) were measured using a flow-through cell and a water quality meter, and water levels were measured until stable groundwater conditions were achieved in each monitoring well. The groundwater samples were collected directly from the peristaltic pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water was containerized in a 5-gallon bucket and placed in 55-gallon drums staged on-Site.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace Analytical® under chain-of-custody protocol via overnight carrier. The groundwater samples collected from wells that were monitored monthly (MW-1, MW-6, MW-7, MW-13, and MW-17) were submitted for analysis of chlorinated volatile organic compounds (CVOCs) by United States Environmental Protection Agency (USEPA) Method 8260, dissolved iron by USEPA Method 6010D, dissolved gases (ethane, ethene, and methane) by USEPA 8015B Modified, sulfate by Standard Method 300.0, and total organic carbon (TOC) by SM Method 5310C. The groundwater samples collected from wells that were monitored quarterly were

submitted for analysis of CVOCs by USEPA Method 8260 and select wells were submitted for additional analyses of dissolved iron by USEPA Method 6010D, dissolved gases (ethane, ethene, and methane) by USEPA 8015B Modified, sulfate by Standard Method 300.0, and TOC by SM Method 5310C. The groundwater laboratory analytical reports for the post-injection monitoring are provided in **Attachment 3**, the groundwater level measurements taken during the post-injection monitoring are provided on **Table 1**, and the field parameter measurements are provided on **Table 2**.

The following sections present the post-injection groundwater sample results, provide an evaluation of the effectiveness of electron donor injections at creating sufficient anaerobic conditions for reductive dechlorination, and provide an evaluation of the effectiveness of the anaerobic conditions to reduce the chlorinated hydrocarbon concentrations in groundwater. This evaluation includes a discussion of the pre- and post-injection monitoring data in relationship to the performance objectives.

Groundwater Flow Direction

Groundwater at the Site is at a depth of approximately 15 to 18 feet below ground surface (bgs) in an unconsolidated sand and gravel material. During the baseline and performance monitoring groundwater sampling events, the groundwater elevation was measured in each well. The groundwater elevations were evaluated, and the horizontal groundwater flow direction is to the northwest, toward the Oconomowoc River located approximately 2.25 miles northwest of the Site. This groundwater flow direction is consistent with other measurement events performed at the Site prior to and during the ERD injection pilot test. The groundwater flow for the baseline sampling event (April 2022) and the March 2023 sampling event are shown on **Figures 3 and 4**, respectively.

Electron Donor Distribution

The seven containment area injection wells were located along two rows within a 40-foot by 18-foot area, and the property boundary injection wells were located in a line along the northwest property boundary approximately 40 feet between injection wells. The volume of injected solution was calculated to replace one-third of the volume of groundwater within a 10-foot radius around the injection well and within the 10-foot-thick treatment zone at each well. The injection zone thickness of 10 feet was used because the injection well screen length is 10 feet. The injection points were arranged around existing monitoring wells such that groundwater samples collected from these wells could be used to evaluate the distribution of electron donor in the subsurface.

The analytical results from the monthly and quarterly sampling events indicate the TOC concentrations increased in MW-1, MW-6, and MW-7 following the injections. The last round of groundwater sampling conducted in late March 2023, approximately one year after the remedial injections, indicates the TOC concentrations remained high in MW-6. The EVO is likely still present in the soil surrounding MW-1 and MW-7, and continues to contribute to the ERD of the chlorinated hydrocarbons, though the TOC concentrations in these two wells have decreased since the initial post-injection sampling.

The analytical results from the monthly and quarterly sampling events indicate the TOC concentrations increased in MW-13 and MW-17 at a progressive but slower rate than the source area wells. The slower, progressive increase in MW-13 and MW-17 is likely due to the relative density and location of the injections wells. The EVO is likely still present in the soil surrounding MW-13 and MW-17, and continues to contribute to the ERD of the chlorinated hydrocarbons, though the TOC concentrations in these two wells have increased at a slower rate. **Graphs 1 and 1A** show the TOC concentrations in monitoring wells from April 2022 through March 2023.

Groundwater Conditions

The purpose of injecting an electron donor is to create a groundwater environment that allows for efficient reductive dechlorination of chlorinated hydrocarbons in groundwater. This type of environment is characterized by low concentrations of DO, ORP, nitrate, and sulfate, and elevated concentrations of dissolved iron and methane.

The following table shows optimal concentration ranges for the electron acceptors and the biodegradation by-products that are indicative of strongly reducing, anaerobic conditions, and the actual concentrations of these parameters measured during the March 2023 post-injection monitoring event for MW-1, MW-6, MW-7, MW-13, and MW-17.

Parameter	Typical Concentration	Actual Concentration
DO	<0.5 to 1 mg/l	0.41 to 6.67 mg/l
ORP	<50 to <-100 mV	-42 to 168 mV
Sulfate	<20 mg/l	ND to 23.8 mg/l
Ferrous Iron	>1.0 mg/l	ND to 16.6 mg/l
Methane	<0.5 mg/l	ND to 6.83 mg/l

*ND = concentrations were not detected.
mg/l = milligrams per liter
mV = millivolt

DO and ORP are measured with a field instrument during low-flow groundwater sampling because these parameters change rapidly once the water is extracted from the well. Some fluctuations of these parameters are measured during the post-injection monitoring, which can be a result from recharge of groundwater in the treatment areas and also minor differences in the field instruments being used to collect the measurements. The post-injection performance monitoring data through March 2023, indicates that the electron donor injections have successfully created strongly reducing, anaerobic conditions favorable for reductive dechlorination.

DO values in the containment area wells (MW-1, MW-6, and MW-7) ranged from 7.96 to 8.99 milligrams per liter (mg/l) in the April 2022 baseline sampling event. DO in the containment area wells was depleted to below 1 mg/l by the June 2022 sampling event and remained below 1 mg/l during the July 2022, November 2022, and March 2023 sampling events, except for MW-7, which increased to 5.5 mg/l in the March 2023 sampling event.

The northwest property boundary wells (MW-13 and MW-17) had DO values of 4.39 and 4.7 mg/l in the April 2022 baseline sampling event, respectively. By June, DO values in MW-13 and MW-17 reduced to 1.12 mg/l and 0.34 mg/l, respectively, and remained below 1 mg/l in the July sampling event. DO values have steadily increased in MW-13 and MW-17 since July 2022. The property boundary wells are in a flat, grassy area that collects precipitation, and the groundwater conditions are likely influenced by the recharge to the groundwater system. Overall, the decrease in DO indicates that the groundwater is under anaerobic conditions and other electron acceptors will be utilized by the microbes. **Graphs 2 and 2A** show the DO concentrations in the injection areas from April 2022 through March 2023.

The ORP values in the containment area wells ranged from 35.8 to 203 millivolts (mV) in the April 2022 baseline sampling event. The ORP values measured during the June 2022 sampling event ranged from -77 mV to -104 mV and continued to remain low through the November 2022 sampling event. The ORP values measured during the March 2023 sampling event were 74 and 157 mV in MW-6 and MW-7, respectively.

The ORP values in the property boundary wells during the June 2022 sampling event were 51 mv and 47 mV, respectively, and during the July 2022 sampling event the ORP values decreased to -23 mV and 1 mV. ORP values continued to be low during the August 2023 sampling event, however, were higher in the March 2023 sampling event to 27 and 168 mV in MW-13 and MW-17, respectively. The ORP values in these wells indicate that the conditions in the containment area are strongly reducing and the conditions near the property boundary are reducing more over time. **Graphs 3 and 3A** show the ORP values in the injection areas from April 2022 through March 2023.

Under increasingly anaerobic reducing conditions, ferric iron is used as an electron acceptor and is reduced to ferrous iron, which is soluble in groundwater. An increase in ferrous iron indicates an increase in the groundwater reducing conditions. The pre-injection dissolved iron concentrations were below the method detection limit in each well, except for MW-18 where it was detected at approximately 90.3 micrograms per liter (µg/l). During the June 2022 sampling, the dissolved

iron concentrations in the containment area wells MW-1, MW-6, and MW-7, increased to 2,720 µg/l, 1,760 µg/l, and 195 µg/l, respectively. These dissolved iron concentrations continued to be at elevated concentrations in MW-1 and MW-6 and during the March 2023 sampling event, the concentrations were 5,150 µg/l and 16,600 µg/l, respectively.

The dissolved iron concentration in monitoring well MW-13 was below the method detection limit for the June 2022 and August 2022 sampling events and during the July 2022 sampling event the concentrations was 92.8 µg/l. The concentration in MW-17 increased to 565 µg/l in August 2022, and subsequently decreased, likely due to the relative density and location of the injection wells. **Graphs 4 and 4A** show the dissolved iron concentrations from April 2022 through March 2023.

Sulfate concentrations in the containment area monitoring wells have significantly decreased since the injection of the electron donor. The pre-injection sulfate concentration in the containment area wells ranged from 15,100 µg/l to 18,700 µg/l in the April 2022 baseline sampling event. From April to July 2022, the sulfate concentrations in MW-7 decreased from 18,700 µg/l to 6,900 µg/l, and in MW-1 and MW-6, the sulfate concentrations were less than the method detection limit. Sulfate remained less than the method detection limit in MW-6 during the March 2023 sampling event. This reduction in the sulfate concentrations in MW-6 is evidence that the groundwater conditions in the containment area are under sulfate-reducing conditions as a result of the injection of the electron donor. Sulfate-reducing conditions are the optimal conditions to efficiently degrade chlorinated hydrocarbons.

The sulfate concentrations in property boundary well MW-13 have shown a steady decrease from 34,000 µg/l in April 2022 to 8,100 µg/l in March 2023. MW-17 decreased from 22,300 µg/l in April 2022 to 10,500 µg/l in March 2023. The results indicate that the conditions in the area of the property boundary injections wells are progressing toward sulfate-reducing conditions. **Graphs 5 and 5A** show the sulfate concentrations from April 2022 through March 2023.

The presence of methane is an indication of methanogenesis, which occurs under strongly reducing conditions. Methane concentrations in the baseline sampling event were below the method detection limit. During the June and July 2022 sampling events, the methane concentrations were also less than the method detection limit. However, during the August 2022 sampling event, MW-1, MW-6, and MW-7 had detections of methane at 37.1 µg/l, 11.5 µg/l, and 4.1 µg/l, respectively. Methane concentrations progressively increased in MW-1, MW-6, and MW-7 to concentrations of 4,680 µg/l, 3,000 µg/l, and 762 µg/l, respectively, in the November 2022 sampling event, which is an indication the reducing conditions were being created. The methane concentration continued to increase in MW-6 to a concentration of 6,830 µg/l in March 2023, while methane concentrations in MW-6 and MW-7 remained stable at an elevated concentration compared to the baseline sampling.

Methane concentrations were below the method detection limit in MW-13 and MW-17 from April through August 2022. Concentrations increased to 3,990 µg/l and 291 µg/l in MW-13 and MW-1, respectively, in March 2023. The increase in methane concentrations and the creation of reducing groundwater conditions in MW-13 and MW-17 continue to indicate the injected solution remains in the subsurface and is creating the reducing conditions, such that they can be detected in monitoring wells between the injection wells. **Graphs 6 and 6A** show the methane concentrations from April 2022 through March 2023

The post-injection performance monitoring data through March 2023 indicates that the electron donor injections have successfully created strongly reducing, anaerobic conditions favorable for reductive dechlorination within the containment area and the property boundary area is progressively becoming more reducing over the duration of the performance monitoring period.

Groundwater Concentrations

The strongly reducing, anaerobic conditions created by the injection of the electron donor are favorable for the reductive dechlorination of chlorinated hydrocarbons. As described herein, the performance monitoring data presented demonstrate that the injection of the electron donor created strongly reducing, anaerobic groundwater conditions. The groundwater performance monitoring analytical data of contaminant concentrations presented in this section demonstrates that the reductive dechlorination process is remediating the groundwater by reducing the chlorinated hydrocarbon concentrations. **Table 3** presents the laboratory analytical results of the post-injection monitoring. **Graphs 7 through 11** present the groundwater concentrations over time for each well and include the contaminants in the degradation pathway.

Pre- and Post-Injection Monitoring Comparison

The performance monitoring data indicate that the injections have reduced the chlorinated hydrocarbon concentrations. The pre- and post-injection concentrations in the wells within the injection areas are summarized below.

Analyte	ES	Timing	MW-1 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-13 (µg/l)	MW-17 (µg/l)
PCE	5.0	Pre-Injection	48.3	169	197	58	57.7
	5.0	Post-Injection	1.4	<0.41	13.4	11.6	39.9

ES = Enforcement Standard

The significant decrease in PCE concentrations in MW-1, MW-6, MW-7, and MW-13 indicates that the ERD is effectively reducing the concentrations in the injection area. At the Site, PCE is considered to be the parent material released and the other chlorinated hydrocarbons are a result of the degradation of PCE, which occurs during the ERD process. **Figures 5 and 6** show the groundwater distribution of PCE from pre-injection (April 2022) through post-injection (March 2023). The analytical results from each post-injection monitoring event are shown on **Table 3**.

The degradation pathway of PCE produces TCE, cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride, in that order. The TCE being generated during the ERD process is also being degraded as it is produced. The more highly chlorinated compounds, PCE and TCE, are used first by the microbes because these compounds provide more energy to the microbes during degradation. Evidence that the TCE is being degraded is supported by the groundwater data for MW-1, MW-6, MW-7, MW-13, and MW-17 in the injection area near the building and in MW-9, MW-12, and MW-18, in which TCE and cis-1,2-DCE are present in the groundwater. **Figures 7 and 8** show the groundwater distribution of TCE from pre-injection (April 2022) through post-injection (March 2023).

The buildup of cis-1,2-DCE concentrations in groundwater during the ERD process has been documented in literature at other sites. During the planning process, materials were selected that were designed to limit the buildup of daughter products of cis-1,2-DCE. The low levels of cis-1,2-DCE may also be a result of the products that were selected for injection. Available scientific information combined with the evidence collected during the performance monitoring sampling events indicates that the cis-1,2-DCE concentration at the Site will decrease with time as the PCE is degraded and the concentrations in MW-6 will also decrease. **Figures 9 and 10** show the groundwater distribution of cis-1,2-DCE from pre-injection (April 2022) through post-injection (March 2023).

Analyte	ES	Timing	MW-1 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-13 (µg/l)	MW-17 (µg/l)
cis-1,2-DCE	70	Pre-Injection	8.9	20.5	64.7	5.3	<0.47
	70	Post-Injection	27.4	178	1.5	33.5	25.5

ES = Enforcement Standard

Vinyl chloride has increased to concentrations above the method detection limit in MW-6 during the performance monitoring period. Vinyl chloride, aside from the dissolved gases, is the last daughter product to be generated. The concentrations of PCE at the Site are not relatively high, therefore, elevated levels of vinyl chloride may not be detected at the Site. **Figures 11 and 12** show the groundwater distribution of vinyl chloride from pre-injection (April 2022) through post-injection (March 2023).

The concentrations of PCE, TCE, cis-1,2-DCE, and vinyl chloride for MW-1, MW-6, MW-7, MW-13, and MW-17, from April 2022 through March 2023, are shown on **Graphs 7 through 11**. Overall, the decrease in PCE, increase in daughter product cis-1,2-DCE, along with the favorable response in the field parameters, indicates that the electron donor has created conditions favorable for reductive dechlorination and that ERD is a viable remedial alternative to successfully reduce the groundwater concentrations.

CONCLUSIONS

The ERD remedial groundwater implementation and the subsequent performance monitoring have confirmed that use of this remedial strategy is effective at remediating the chlorinated hydrocarbon-affected groundwater at the Site. Below is a summary of the results of the post ERD injection monitoring events.

1. The injection of electron donor at the seven injection wells in the containment area and at the four injection wells in the property boundary area have created and maintained anaerobic conditions favorable for reductive dechlorination.
2. The DO, ORP, and sulfate concentrations in the injection areas have generally decreased following the injection activities. The TOC, dissolved iron, and methane concentrations have generally increased following the injection activities. These changes in the groundwater conditions indicate that the conditions are favorable for continued reductive dechlorination.
3. The favorable conditions developed for reductive dechlorination have successfully reduced the concentration of PCE, as demonstrated during the March 2023 sampling event.
4. Concentrations of cis-1,2-DCE, a breakdown product of PCE, have increased as demonstrated during the March 2023 sampling event, indicating reductive dechlorination is taking place.
5. The high TOC concentrations in MW-6 indicate a sufficient carbon source is present in the subsurface for continued reductive dechlorination.

RECOMMENDATIONS

Based on the groundwater conditions, the reduction in PCE concentrations, and the anticipated ongoing degradation process, Leather-Rich intends to continue with performance monitoring on an annual basis. GZA proposes annual sampling of the following monitoring wells, as discussed on **Table 4**: MW-1, MW-6, MW-7, MW-13, and MW-17. GZA will sample these wells to monitor the continued effectiveness of the ERD.

Groundwater samples will be collected using a peristaltic pump attached to disposable polyethylene tubing placed into each monitoring well. Groundwater will be purged from the wells at flow rates of approximately 150 to 350 ml/min prior to sampling. During purging, field parameters (pH, temperature, specific conductivity, DO, and ORP) will be measured using a flow-through cell and a water quality meter, and water levels will be measured until stable conditions are achieved. The groundwater samples will be collected directly from the peristaltic pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water will be containerized in a 5-gallon bucket and placed in 55-gallon drums staged on-Site.

The groundwater samples will placed on ice in an insulated cooler and submitted to Pace Analytical® under chain-of-custody protocol via overnight carrier. The groundwater samples will be submitted for analysis listed in **Table 4**. The next round of groundwater samples will be scheduled for March 2024.

If you should have any questions regarding the Report, please contact Kevin Hedinger at (262) 754-2578.

Sincerely,

GZA GeoEnvironmental, Inc.

Sheryl I. Stephenson, P.G.
Project Hydrogeologist

Kevin M. Hedinger
Senior Hydrogeologist

James F. Drought, P.H.
Principal Hydrogeologist

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Attachments: Tables 1 through 4
Figures 1 through 12
Graphs 1 through 11
Limitations
Pre-Injection Laboratory Analytical Reports and Chain-of-Custody Documentation
Post-Injection Laboratory Analytical Reports and Chain-of-Custody Documentation

TABLES

TABLE 1
GROUNDWATER LEVEL ELEVATION SUMMARY
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	Well Elevations		Well Construction		Depth (bgs)	Depth (TOC)	Calculated Elevation	Feet of Water in Well	Change in Elevation	Date Groundwater Measured
						Groundwater				
MW-1	885.14	885.39	22.75	10		18.85	866.29	3.90	-0.68	4/5/2022
						18.76	866.38	3.99	0.09	4/6/2022
						17.27	867.87	5.48	1.49	6/16/2022
						16.89	868.25	5.86	0.38	7/13/2022
						17.56	867.58	5.19	-0.67	8/12/2022
						16.60	868.54	6.15	0.96	11/14/2022
						16.71	868.43	6.04	-0.11	3/27/2023
MW-2	883.48	883.69	20.8	5		17.85	865.63	2.95	-0.86	4/5/2022
						17.68	865.80	3.12	0.17	4/6/2022
						16.10	867.38	4.70	1.58	6/16/2022
						15.89	867.59	4.91	0.21	7/13/2022
						16.58	866.90	4.22	-0.69	8/12/2022
						15.60	867.88	5.20	0.98	11/14/2022
						15.74	867.74	5.06	-0.14	3/27/2023
MW-3	884.30	885.59	20.72	5		18.75	865.55	1.97	-0.75	4/5/2022
						18.56	865.74	2.16	0.19	4/6/2022
						17.12	867.18	3.60	1.44	6/16/2022
						16.74	867.56	3.98	0.38	7/13/2022
						17.35	866.95	3.37	-0.61	8/12/2022
						16.35	867.95	4.37	1.00	11/14/2022
						16.45	867.85	4.27	-0.10	3/27/2023
MW-4	880.34	880.60	17.86	5.00		14.78	865.56	3.08	-0.75	4/5/2022
						14.59	865.75	3.27	0.19	4/6/2022
						13.12	867.22	4.74	1.47	6/16/2022
						12.75	867.59	5.11	0.37	7/13/2022
						13.36	866.98	4.50	-0.61	8/12/2022
						13.42	866.92	4.44	-0.06	11/14/2022
						12.49	867.85	5.37	0.93	3/27/2023
MW-5	883.54	883.82	20.82	5.00		17.91	865.63	2.91	-0.75	4/5/2022
						17.75	865.79	3.07	0.16	4/6/2022
						16.20	867.34	4.62	1.55	6/16/2022
						16.00	867.54	4.82	0.20	7/13/2022
						16.71	866.83	4.11	-0.71	8/12/2022
						15.73	867.81	5.09	0.98	11/14/2022
						15.87	867.67	4.95	-0.14	3/27/2023
MW-6	885.10	885.41	20.95	5.00		18.82	866.28	2.13	-1.07	4/5/2022
						18.63	866.47	2.32	0.19	4/6/2022
						17.19	867.91	3.76	1.44	6/16/2022
						16.78	868.32	4.17	0.41	7/13/2022
						17.46	867.64	3.49	-0.68	8/12/2022
						15.47	869.63	5.48	1.99	11/14/2022
						16.62	868.48	4.33	-1.15	3/27/2023
MW-7	885.19	885.44	20.90	5.00		18.88	866.31	2.02	-1.04	4/5/2022
						18.72	866.47	2.18	0.16	4/6/2022
						17.25	867.94	3.65	1.47	6/16/2022
						16.85	868.34	4.05	0.40	7/13/2022
						17.53	867.66	3.37	-0.68	8/12/2022
						16.56	868.63	4.34	0.97	11/14/2022
						16.68	868.51	4.22	-0.12	3/27/2023

TABLE 1
GROUNDWATER LEVEL ELEVATION SUMMARY
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	Well Elevations		Well Construction		Depth (bgs)	Depth (TOC)	Calculated Elevation	Feet of Water in Well	Change in Elevation	Date Groundwater Measured
						Groundwater				
MW-8	885.26	885.40	21.00	5.00		18.95	866.31	2.05	-1.11	4/5/2022
						18.76	866.50	2.24	0.19	4/6/2022
						17.35	867.91	3.65	1.41	6/16/2022
						16.95	868.31	4.05	0.40	7/13/2022
						17.62	867.64	3.38	-0.67	8/12/2022
						16.66	868.60	4.34	0.96	11/14/2022
						16.79	868.47	4.21	-0.13	3/27/2023
MW-9	885.37	885.66	20.05	10		19.06	866.31	0.99	-0.78	4/5/2022
						18.87	866.50	1.18	0.19	4/6/2022
						17.43	867.94	2.62	1.44	6/16/2022
						17.02	868.35	3.03	0.41	7/13/2022
						-	-	-	-	8/12/2022
						16.72	868.65	3.33	0.30	11/14/2022
						16.81	868.56	3.24	-0.09	3/27/2023
MW-10	885.21	885.70	21.92	10.00		19.16	866.05	3.59	0.05	4/5/2022
						19.00	866.21			4/6/2022
						17.50	867.71	4.42	0.83	6/16/2022
						17.12	868.09	4.80	0.38	7/13/2022
						-	-	-	-	8/12/2022
						16.81	868.40	5.11	0.31	11/14/2022
						16.91	868.30	5.01	-0.10	3/27/2023
MW-11	885.27	885.64	23.04	10.00		19.03	866.24	4.01	-0.79	4/5/2022
						18.84	866.43	4.20	0.19	4/6/2022
						17.38	867.89	5.66	1.46	6/16/2022
						16.97	868.30	6.07	0.41	7/13/2022
						-	-	-	-	8/12/2022
						16.67	868.60	6.37	0.30	11/14/2022
						16.76	868.51	6.28	-0.09	3/27/2023
MW-12	884.02	884.36	22.04	10.00		18.44	865.58	3.60	-0.83	4/5/2022
						18.25	865.77	3.79	0.19	4/6/2022
						16.60	867.42	5.44	1.65	6/16/2022
						16.46	867.56	5.58	0.14	7/13/2022
						17.15	866.87	4.89	-0.69	8/13/2022
						16.20	867.82	5.84	0.95	11/14/2022
						16.31	867.71	5.73	-0.11	3/27/2023
MW-13	883.98	884.35	22.1	10		18.41	865.57	3.69	-0.88	4/5/2022
						18.25	865.73	3.85	0.16	4/6/2022
						16.62	867.36	5.48	1.63	6/16/2022
						16.42	867.56	5.68	0.20	7/13/2022
						17.14	866.84	4.96	-0.72	8/12/2022
						16.16	867.82	5.94	0.98	11/14/2022
						16.32	867.66	5.78	-0.16	3/27/2023
MW-14	882.90	883.33	22.20	10.00		17.40	865.50	4.80	-0.90	4/5/2022
						17.23	865.67	4.97	0.17	4/6/2022
						15.62	867.28	6.58	1.61	6/16/2022
						15.32	867.58	6.88	0.30	7/13/2022
						16.00	866.90	6.20	-0.68	8/12/2022
						15.05	867.85	7.15	0.95	11/14/2022
						15.17	867.73	7.03	-0.12	3/27/2023

TABLE 1
GROUNDWATER LEVEL ELEVATION SUMMARY
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	Well Elevations		Well Construction		Depth (bgs)	Depth (TOC)	Calculated Elevation	Feet of Water in Well	Change in Elevation	Date Groundwater Measured
						Groundwater				
MW-15	883.41	883.80	22.10	10		17.90	865.51	4.20	-0.80	4/5/2022
						17.73	865.68	4.37	0.17	4/6/2022
						16.20	867.21	5.90	1.53	6/16/2022
						15.84	867.57	6.26	0.36	7/13/2022
						16.50	866.91	5.60	-0.66	8/12/2022
						15.53	867.88	6.57	0.97	11/14/2022
						15.63	867.78	6.47	-0.10	3/27/2023
MW-16	882.90	883.51	19.60	10		17.35	865.55	2.25	-0.85	4/5/2022
						17.14	865.76	2.46	0.21	4/6/2022
						15.50	867.40	4.10	1.64	6/16/2022
						15.38	867.52	4.22	0.12	7/13/2022
						16.13	866.77	3.47	-0.75	8/12/2022
						15.14	867.76	4.46	0.99	11/14/2022
						15.29	867.61	4.31	-0.15	3/27/2023
MW-17	883.68	884.24	21.22	10		18.07	865.61	3.15	-0.97	4/5/2022
						17.89	865.79	3.33	0.18	4/6/2022
						16.15	867.53	5.07	1.74	6/16/2022
						16.10	867.58	5.12	0.05	7/13/2022
						16.85	866.83	4.37	-0.75	8/12/2022
						15.14	868.54	6.08	1.71	11/14/2022
						16.04	867.64	5.18	-0.90	3/27/2023
MW-18	883.22	883.52	24.95	10		17.72	865.50	7.23	-0.04	4/5/2022
						17.51	865.71	7.44	0.21	4/6/2022
						15.67	867.55	9.28	1.84	6/16/2022
						15.72	867.50	9.23	-0.05	7/13/2022
						16.50	866.72	8.45	-0.78	8/12/2022
						15.50	867.72	9.45	1.00	11/14/2022
						15.69	867.53	9.26	-0.19	3/27/2023
MW-19	882.65	882.99	23.99	10		17.11	865.54	6.88	0.04	4/5/2022
						16.92	865.73	7.07	0.19	4/6/2022
						15.10	867.55	8.89	1.82	6/16/2022
						15.19	867.46	8.80	-0.09	7/13/2022
						15.97	866.68	8.02	-0.78	8/12/2022
						14.99	867.66	9.00	0.98	11/14/2022
						15.18	867.47	8.81	-0.19	3/27/2023
MW-20	882.70	883.22	24.59	10		17.20	866.02	7.39	0.10	4/5/2022
						16.95	865.75	7.64	0.25	4/6/2022
						14.86	867.84	9.73	2.09	6/16/2022
						15.20	867.50	9.39	-0.34	7/13/2022
						16.10	866.60	8.49	-0.90	8/12/2022
						15.13	867.57	9.46	0.97	11/15/2022
						15.35	867.35	9.24	-0.22	3/27/2023
MW-21	881.07	881.63	24.75	10		15.49	865.58	9.26	0.16	4/5/2022
						15.10	865.97	9.65	0.39	4/6/2022
						12.84	868.23	11.91	2.26	6/16/2022
						13.52	867.55	11.23	-0.68	7/13/2022
						14.48	866.59	10.27	-0.96	8/12/2022
						13.45	867.62	11.30	1.03	11/14/2022
						13.65	867.42	11.10	-0.20	3/27/2023

TABLE 1
GROUNDWATER LEVEL ELEVATION SUMMARY
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	Well Elevations		Well Construction		Depth (bgs)	Depth (TOC)	Calculated Elevation	Feet of Water in Well	Change in Elevation	Date Groundwater Measured
						Groundwater				
PZ-1	885.08	885.30	36.75	5.00		18.83	866.25	17.92	-0.81	4/5/2022
						18.66	866.42	18.09	0.17	4/6/2022
						17.18	867.90	19.57	1.48	6/16/2022
						16.80	868.28	19.95	0.38	7/13/2022
						17.49	867.59	19.26	-0.69	8/12/2022
						16.49	868.59	20.26	1.00	11/14/2022
						16.61	868.47	20.14	-0.12	3/27/2023
PZ-2	885.21	885.65	35.70	5		18.89	866.32	16.81	-0.74	4/5/2022
						18.69	866.52	17.01	0.20	4/6/2022
						17.25	867.96	18.45	1.44	6/16/2022
						-	-	-	-	8/12/2022
						16.58	868.63	19.12	0.67	11/14/2022
						16.69	868.52	19.01	-0.11	3/27/2023
PZ-3	883.86	884.42	36.31	5.00		18.30	865.56	18.01	-0.87	4/5/2022
						18.12	865.74	18.19	0.18	4/6/2022
						16.48	867.38	19.83	1.64	6/16/2022
						17.15	866.71	19.16	-0.67	8/12/2022
						16.07	867.79	20.24	1.08	11/14/2022
						16.20	867.66	20.11	-0.13	3/27/2023

Notes:
1. bgs = below ground surface.
2. TOC = top of casing.

TABLE 2
GROUNDWATER PARAMETERS AND WATER DEPTH
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-1						MW-2			MW-3			MW-4			MW-5		
Date	4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/28/2023	4/6/2022	11/14/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023	4/5/2022	11/14/2022	3/28/2023
Depth to Water (ft btoc)	22.76	17.27	16.89	17.56	16.64	16.66	17.81	20.89	15.64	18.58	16.51	16.42	11.36	12.55	12.46	17.8	15.75	15.82
DO (mg/L)	7.96	0.32	0	2.2	0.53	0.72	6.42	9.18	10.67	8.15	8.66	10.76	10	8.2	13.2	7.87	9.2	14.48
ORP (mV)	35.8	-140	-227	-162	-143.6	-42	180	224.3	74	22.8	223.8	148	254.3	201.1	115	107.3	183.6	198
Conductivity (mS/cm)	1.052	1.05	1.04	1.22	0.965	1.02	1.05	0.722	1.21	1.29	0.763	1.37	0.601	0.477	0.715	2.1	0.722	1.47
Temperature (°C)	12.6	25.41	25.49	21.1	12.8	5.18	11.98	13.2	8.1	10.5	13.4	9.27	8.6	13.6	7.1	12.1	16.4	5.73
pH (s.u.)	7.29	7.72	7.68	6.45	7.1	6.06	7	7.06	6.19	7.21	7.21	7.51	7.76	7.41	7.86	7.47	7.35	7.53

TABLE 2
GROUNDWATER PARAMETERS AND WATER DEPTH
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-6						MW-7						MW-8			MW-9			MW-10		
Date	4/5/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/27/2023	4/5/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023
Depth to Water (ft btoc)	18.81	17.19	16.78	17.46	15..47	16.6	18.88	17.25	16.85	17.53	16.56	16.68	18.96	16.8	16.75	19.06	16.74	16.81	14.45	16.85	16.91
DO (mg/L)	8.52	0.32	0	2.24	0.19	0.41	8.99	0.33	0	1.61	0.26	5.5	8.33	8.15	12.58	7.25	7.88	9.17	5.82	8.46	9.57
ORP (mV)	199	-103	-130	-93	-70.4	74	203	-77	-157	-150	-25.6	157	196	189.1	184	185	126	14.3	191	160.7	153
Conductivity (mS/cm)	0.779	0.921	1.62	1.62	1.275	0.629	0.791	1.03	1.03	1.09	0.858	0.663	1.02	0.832	1.43	1.08	0.894	1.07	0.801	0.673	0.958
Temperature (°C)	12.77	26.04	24.03	22.74	16.3	7.93	11.75	25	26.69	22.46	15.6	8.25	11.64	15	9.19	17.19	17.3	11.37	18.18	15.5	11.55
pH (s.u.)	6.02	7.58	6.45	5.97	6.47	5.67	6.28	7.41	7.4	6.76	7.17	5.7	6.54	7.22	5.98	7.09	7.18	6.02	7.1	7.32	6.23

TABLE 2
GROUNDWATER PARAMETERS AND WATER DEPTH
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-11			MW-12			MW-13						MW-14			MW-15			MW-16		
Date	4/5/2022	11/15/2022	3/27/2023	4/6/2022	11/14/2022	3/28/2023	4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/14/2022	3/28/2023	4/6/2022	11/14/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023	4/6/2022	11/14/2022	3/27/2023
Depth to Water (ft btoc)	19.03	16.7	16.79	18.34	16.19	16.25	18.36	16.62	16.42	17.14	16.31	16.19	17.36	15.19	15.1	17.75	15.58	15.59	17.18	15.14	15.3
DO (mg/L)	7.02	9.18	13.31	7.08	2.22	9.56	4.7	1.23	0	1.78	1.06	3.42	9.19	8.85	8.36	6.92	7.68	9.48	10.41	6.81	10.24
ORP (mV)	191	183.9	140	173	163.8	203	167	51	-23	33	155.7	27	200	254.8	20	34.6	229.2	171	220.6	159.1	174
Conductivity (mS/cm)	0.954	0.748	0.802	1.11	0.995	1.34	1.06	0.928	1.11	1.12	0.934	1.2	0.903	0.772	1.25	1.426	0.92	1.34	1.765	0.744	0.801
Temperature (°C)	15.15	16.4	9.47	12.99	15.6	7.44	12.99	26.7	25.41	20.92	13.6	9.72	12.67	13.3	7.28	11.5	12.1	9.75	11.6	16.5	11.5
pH (s.u.)	7	7.38	5.74	7.17	7.07	7.35	7.02	7.86	7.46	6.71	7.07	6.06	6.98	7.16	6.19	7.25	7.18	7.51	7.38	7.18	7.47

TABLE 2
GROUNDWATER PARAMETERS AND WATER DEPTH
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-17						MW-18			MW-19			MW-20			MW-21		
Date	4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023
Depth to Water (ft btoc)	18.01	16.15	16.1	16.85	16.02	16.04	17.59	15.5	15.68	17	14.99	15.17	17.1	15.25	15.35	15.38	13.48	13.65
DO (mg/L)	4.39	0.34	0	4.33	3.32	6.67	6.7	3.26	0.4	4.64	2.62	4.78	7.48	6.02	6.24	7.06	5.01	1.59
ORP (mV)	172	47	1	-63	62.8	168	28.7	175.9	158	112.9	140.5	173	118.8	145.2	195	169.5	192.1	205
Conductivity (mS/cm)	1.11	1.13	1.13	1.04	1.111	0.962	1.944	1.064	1.29	2.929	1.396	1.31	1.372	0.834	1.43	1.426	1.378	1.59
Temperature (°C)	12.88	24.65	22.7	20.34	13.2	11.7	11.8	15	10.4	11.8	16.6	11.45	14.2	16.8	4.38	12.7	14.1	11.72
pH (s.u.)	7.01	8	7.42	6.64	6.97	7.23	7.12	6.99	7.32	7.36	7.17	7.45	7.26	7.49	7.13	7.1	6.97	6.76

TABLE 2
GROUNDWATER PARAMETERS AND WATER DEPTH
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	PZ-2		PZ-3		
Date	4/5/2022	3/27/2023	4/6/2022	11/14/2022	3/28/2023
Depth to Water (ft btoc)	18.89	16.69	18.25	16.18	16.1
DO (mg/L)	6.23	6.81	8.21	3.55	2.87
ORP (mV)	189	147	161	159.7	65
Conductivity (mS/cm)	1.26	1.42	0.405	0.931	1.26
Temperature (°C)	17.66	11.79	12.95	12.7	12.04
pH (s.u.)	6.97	6.02	7.39	7.17	6.18

Notes:
1. ft btoc = feet below top of casing.
2. mg/L = milligrams per liter.
3. mV = millivolts.
4. mS/cm = milliSiemens per centimeter.
5. °C = degrees Centigrade.
6. s.u. = standard units.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-1						MW-2			MW-3			MW-4		
			4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/28/2023	4/6/2022	11/14/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023
		Collected by:	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	48.3	28.3	74.7	11.3	*1.4*	*1.4*	10.7	12.5	15	< 0.41	< 0.41	< 0.41	***1.8***	< 0.41	< 0.41
Trichloroethene	5	0.5	***3.2***	***0.99 J***	6.9	< 0.32	***0.55 J***	***0.78 J***	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	8.9	1.6	***10.5***	2.2	***10.2***	***27.4***	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
trans-1,2-Dichloroethene	100	20	0.92J	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	15100	17800	< 2,200	850 J	5,600 J	23,800	22,700	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	< 56.7	2720	4,800	6,310	9,600	5,150	< 56.7	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	2100	24200	45,100	22,200	20,600	3,800	1100	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NS	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NS	NS	< 0.25	< 0.25	< 0.25	< 0.35	< 0.35	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	NS	NS	< 0.58	< 0.58	< 0.58	37.1	4680	3530	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-5			MW-6							MW-7					
			4/5/2022	11/14/2022	3/28/2023	4/5/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/27/2023	3/27/2023 DUP	4/5/2022	6/16/2022	7/13/2022	8/12/2022	11/15/2022	3/27/2023
Collected by:			GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	***0.62J***	***1.3***	***0.62 J***	169	41.4	47.4	15.6	< 0.41	< 0.41	< 0.82	197	48.8	66.3	31.2	34.3	13.4
Trichloroethene	5	0.5	< 0.32	< 0.32	< 0.32	7.5	***2.3***	***2.9***	***1.8***	< 0.32	< 0.32	< 0.64	19.3	***1.5***	***2.2***	***1.6***	***2.7***	***0.83 J***
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.35	< 0.17	0.50 J	13.3	6.3	3.2	2.3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 0.47	< 0.47	< 0.47	***20.5***	5.5	***7.3***	219	252	178	166	***64.7***	1.4	1.9	***9.7***	***11.4***	1.5
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53	2.2	< 0.53	< 0.53	0.64 J	0.70 J	< 0.53	< 1.1	4.7	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	NA	NA	NA	17,800	17,000	< 2,200	< 2,200	< 2,200	< 2,200	NA	18,700	22,300	6,900 J	13,000	19,500	26,000
Iron, Dissolved	NS	NS	NA	NA	NA	< 29.6	1,760	33,300	40,800	21,500	16,600	NA	< 29.6	195	5,640	1,690	619	< 29.6
Total Organic Carbon	NS	NS	NA	NA	NA	1,000	236,000	666,000	314,000	107,000	48,400	NA	1000	33,500	70,000	4,300	2,500	1,100
Ethane	NS	NS	NA	NA	NA	< 0.39	1.6 J	4.8 J	1.9 J	< 0.39	< 0.39	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Ethene	NS	NS	NA	NA	NA	< 0.25	3.1 J	4.5 J	2.1 J	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Methane	NS	NS	NA	NA	NA	< 0.58	2.2 J	< 0.58	11.5	3000	6830	NA	< 0.58	< 0.58	< 0.58	4.1	762	463

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-8				MW-9			MW-10			MW-11			MW-12		
			4/5/2022	11/15/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023	4/5/2022	11/15/2022	3/27/2023	4/6/2022	11/14/2022	3/28/2023
Collected by:			GZA	GZA	GZA-DUP	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	106	12.2	13.5	*4.9*	49.1	108	97.3	**2.4**	7.9	*2*	8.8	26.8	15.8	36.2	83.5	32.1
Trichloroethene	5	0.5	**4.4**	< 0.32	< 0.32	< 0.32	9.6	11.1	12.3	***0.54J***	0.39 J	< 0.32	***0.66***	***1.4***	***0.54 J***	***0.58J***	***1.6***	***0.73 J***
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	10.9	< 0.47	< 0.47	< 0.47	***25.7***	***14***	***18.1***	< 0.47	< 0.47	< 0.47	0.66J	1.5	< 0.47	< 0.47	***14.5***	1.1
trans-1,2-Dichloroethene	100	20	0.84	< 0.53	< 0.53	< 0.53	2.3	2.3	2	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	20700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22,200	16,200	21,700
Iron, Dissolved	NS	NS	< 29.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 56.7	< 29.6	< 29.6
Total Organic Carbon	NS	NS	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000	1,100	940
Ethane	NS	NS	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1,000	< 0.39	< 0.39
Ethene	NS	NS	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25
Methane	NS	NS	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	1.6 J	< 0.58

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-13							MW-14			MW-15		
			4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/14/2022	3/28/2023	3/28/2023 DUP	4/6/2022	11/14/2022	3/28/2023	4/6/2022	11/15/2022	3/28/2023
		Collected by:	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	58	42.3	41	34.5	19.7	11.6	11.4	15.8	11.6	7.2	*3*	*0.60 J*	< 0.41
Trichloroethene	5	0.5	*0.71J*	*0.54 J*	*0.59 J*	*1.6*	*0.71 J*	*2.7*	*2.5*	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 0.47	< 0.47	< 0.47	*15.1*	*13.5*	*33.5*	*30.1*	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	34,000	22,000	23,100	11,000	11,000	8,100	NA	103,000	NA	NA	24800	NA	NA
Iron, Dissolved	NS	NS	< 56.7	< 29.6	92.8	< 56.7	69.3	33.5 J	NA	< 56.7	NA	NA	< 56.7	NA	NA
Total Organic Carbon	NS	NS	1,500	1,300	1,800	2,200	1,800	2,000	NA	1200	NA	NA	1100	NA	NA
Ethane	NS	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	< 0.39	NA	NA	< 0.39	NA	NA
Ethene	NS	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	NA	NA	< 0.25	NA	NA
Methane	NS	NS	< 0.58	< 0.58	< 0.58	< 0.58	132	3990	NA	< 0.58	NA	NA	< 0.58	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-16				MW-17						MW-18			MW-19		
			4/6/2022	4/6/2022 DUP	11/14/2022	3/27/2023	4/6/2022	6/16/2022	7/13/2022	8/12/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023	4/5/2022	11/14/2022	3/27/2023
Collected by:			GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	6.6	6.3	9.8	2.4	57.7	58.7	66.2	67.6	60.6	39.9	93	62.1	51.4	6.4	14.5	9
Trichloroethene	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	*0.95J*	*0.74 J*	*0.57 J*	*0.61 J*	*1*	*1.6*	*1.3*	*0.69 J*	*4.2*	< 0.32	< 0.32	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 0.47	< 0.47	2.6	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	*8.8*	*25.5*	< 0.47	1	82.4	< 0.47	< 0.47	< 0.47
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	NA	NA	NA	NA	22,300	23,700	23,400	21,800	18,700	10,500	22,700	23,100	8,000	NA	NA	NA
Iron, Dissolved	NS	NS	NA	NA	NA	NA	< 56.7	< 29.6	< 29.6	565	68.3	< 29.6	90.3	33.2	< 29.6	NA	NA	NA
Total Organic Carbon	NS	NS	NA	NA	NA	NA	1,300	2,600	2,200	5,300	2,100	2,500	1400	1,900	1,800	NA	NA	NA
Ethane	NS	NS	NA	NA	NA	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	NA
Ethene	NS	NS	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA
Methane	NS	NS	NA	NA	NA	NA	< 0.58	< 0.58	< 0.58	< 0.58	5.3	291	< 0.58	1.5 J	631	NA	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-20				MW-21				PZ-1			PZ-2	
			4/5/2022	11/14/2022	11/14/2022 (DUP)	3/27/2023	4/5/2022	4/5/2022 DUP	11/14/2022	3/27/2023	4/6/2022	11/15/2022	3/28/2023	4/5/2022	3/27/2023
Collected by:			GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	**106**	**33.3**	**37.4**	**71**	**59.9**	**57.1**	**56**	**50.7**	< 0.41	< 0.41	< 0.41	**5.3**	***0.56 J***
Trichloroethene	5	0.5	***1.4J***	< 0.32	< 0.32	0.34 J	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	1.2	< 0.32
Vinyl chloride	0.2	0.02	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 1.2	< 0.47	< 0.47	3	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
trans-1,2-Dichloroethene	100	20	< 1.3	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	17400	NA	NA	NA	NA	NA	NA	NA	27900	5,600	< 2,200	NA	NA
Iron, Dissolved	NS	NS	< 29.6	NA	NA	NA	NA	NA	NA	NA	< 56.7	9,340	21,500	NA	NA
Total Organic Carbon	NS	NS	1300	NA	NA	NA	NA	NA	NA	NA	980	35,100	39,000	NA	NA
Ethane	NS	NS	< 0.39	NA	NA	NA	NA	NA	NA	NA	< 0.39	< 0.39	< 0.39	NA	NA
Ethene	NS	NS	< 0.25	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	NA	NA
Methane	NS	NS	< 0.58	NA	NA	NA	NA	NA	NA	NA	< 0.58	5430	9740	NA	NA

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	PZ-3		
			4/6/2022	11/14/2022	3/28/2023
		Collected by:	GZA	GZA	GZA
Tetrachloroethene	5	0.5	**1.6**	**42.2**	**30.7**
Trichloroethene	5	0.5	< 0.32	< 0.32	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 0.47	1.2	***20.8***
trans-1,2-Dichloroethene	100	20	< 0.53	< 0.53	< 0.53
Sulfate	NS	NS	5000	NA	NA
Iron, Dissolved	NS	NS	< 56.7	NA	NA
Total Organic Carbon	NS	NS	5300	NA	NA
Ethane	NS	NS	< 0.39	NA	NA
Ethene	NS	NS	< 0.25	NA	NA
Methane	NS	NS	< 0.58	NA	NA

Notes:
1. Samples were collected by GZA GeoEnvironmental, Inc. (GZA) and submitted to Pace® Analytical Services (Pace) for analysis of chlorinated VOCs (cVOCs) by United States Environmental Protection Agency (USEPA) Method 8260, dissolved iron by USEPA Method 6010D, dissolved gases (ethane, ethene, and methane) by USEPA 8015B Modified, sulfate by Standard Method 300.0, and total organic carbon (TOC) by SM Method 5310C2.
2. Results are presented in micrograms per liter (µg/l).
3. Results are compared to Wisconsin Administrative Code (Wis. Adm. Code) Chapter NR 140 Enforcement Standards (ESs) and Preventive Action Limits (PALs). **Underlined Bold Red font** indicates the parameter was detected above the ES and ***Bold italicized font*** indicates the parameter was detected above the PAL.
4. "-" = The sample was not analyzed for the specified parameter.
5. Only results for compounds detected during laboratory analyses are presented.
6. J = Estimated value. The analyte was detected at a concentration between the limit of detection (LOD) and limit of quantification (LOQ).
7. "NA" = Not Analyzed
8. "NS" = No Standard available under Wis. Adm. Code NR 140.

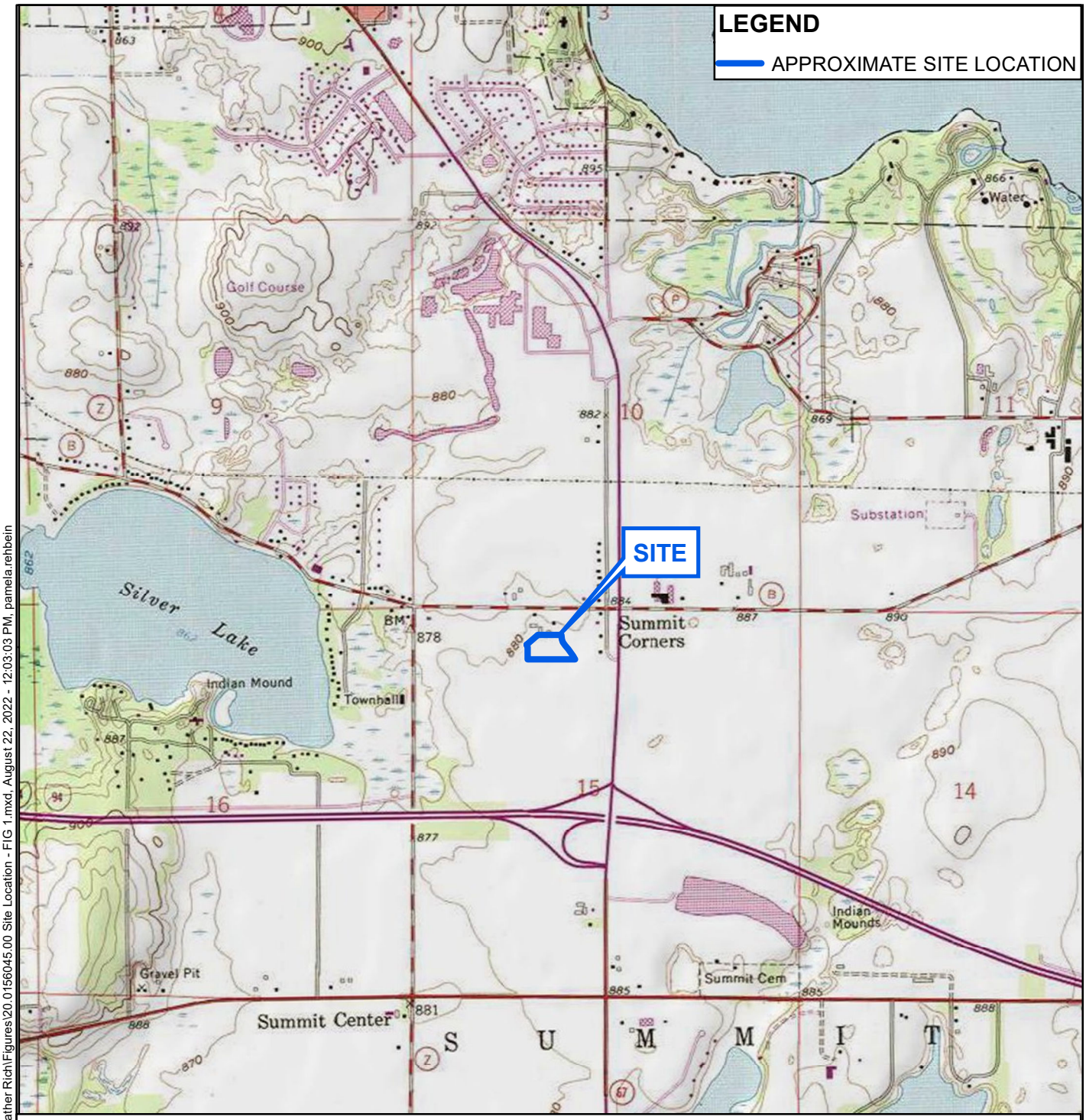
TABLE 4
PROPOSED ANNUAL GROUNDWATER MONITORING
Leather-Rich Inc.
Oconomowoc, Wisconsin

Monitoring Locations	Matrix	Frequency	Type of Analytical or Field Measurement	Comments
MW-1, MW-6, MW-7, MW-13, MW-17	Water	Annual	CVOCs, dissolved gasses (methane, ethane, and ethene), sulfate, dissolved iron, total organic carbon[2]	To monitor changes in CVOC concentrations, electron acceptors and biodegradation product concentrations

Notes:

1. Field measurements of temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential will be made during purging.
2. Analyses for each of the parameters will be conducted by a State-certified laboratory in accordance with standard United States Environmental Protection Agency (USEPA) methodology.
3. CVOCs = chlorinated volatile organic compounds.

FIGURES



SOURCE:

BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:

OCONOMOWOC, WI

0 1,000 2,000 4,000

SCALE IN FEET

N W E S

DIGITAL TOPOGRAPHIC MAPS PROVIDED BY NGMDB.USGS.GOV

CONTOUR ELEVATIONS REFERENCE NAVD 88,
CONTOURS ARE SHOWN IN FEET AT 10' INTERVALS

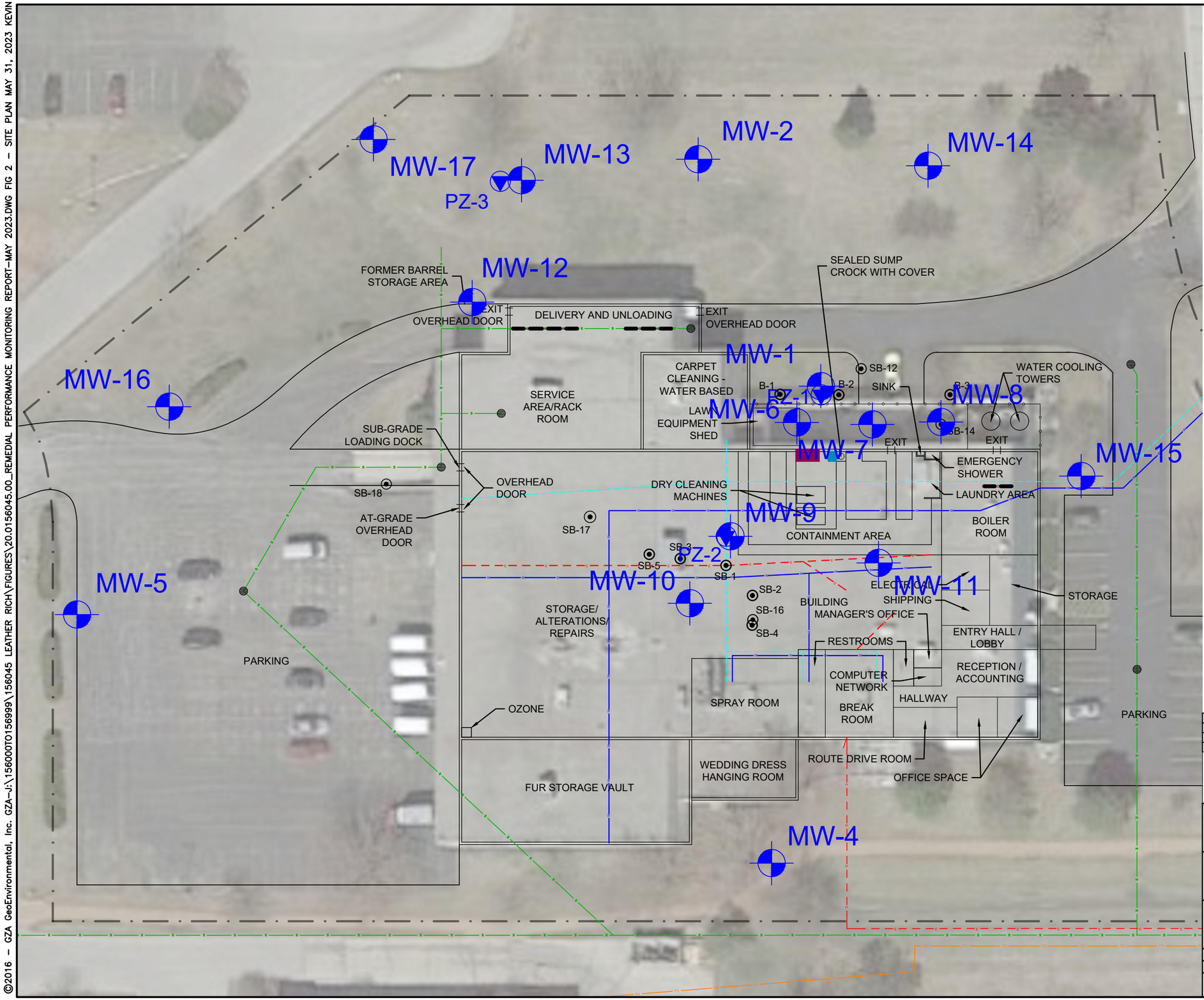
LEATHER-RICH
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER-RICH, INC.
1205 CORPORATE CENTER DRIVE
OCONOMOWOC, WI

SITE LOCATION MAP

PROJ MGR: HAW	REVIEWED BY: HAW	CHECKED BY: SIS	FIG 1
DESIGNED BY: HAW	DRAWN BY: PLR	SCALE: 1 in = 2,000 ft	
DATE: 08/22/2022	PROJECT NO: 20.0156045.00	REVISION NO:	SHEET NO: OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- SOIL BORINGS
- DRAIN
- TRENCH DRAIN
- WATER UTILITY
- SANITARY SEWER
- ELECTRIC
- STORM SEWER
- FIBER OPTIC / INTERNET
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
2. THE USE OF AERIAL PHOTOGRAPHY CAN OFTEN MAKE BUILDINGS AND OTHER SITE FEATURES APPEAR TO BE OVERLAPPING AND DISTORTED WHEN OVERLAID WITH ACTUAL SITE FEATURES.
3. THE LOCATION OF THE EXPLORATIONS WERE APPROXIMATELY DETERMINED BY LINE OF SIGHT AND/OR TAPE MEASUREMENTS FROM EXISTING TOPOGRAPHIC FEATURES. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
4. THE APPROXIMATE LOCATION OF THE SITE BOUNDARY WAS OBTAINED THROUGH USE OF THE LOCAL COUNTY ONLINE GIS MAPPING TOOL. THE PROGRAM NOTES THAT ALL PROPERTY BOUNDARIES ARE NOT SURVEYED AND ARE ONLY APPROXIMATE REPRESENTATIONS OF ACTUAL BOUNDARIES.

N / W / E / S

0 20' 40' 80'

SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

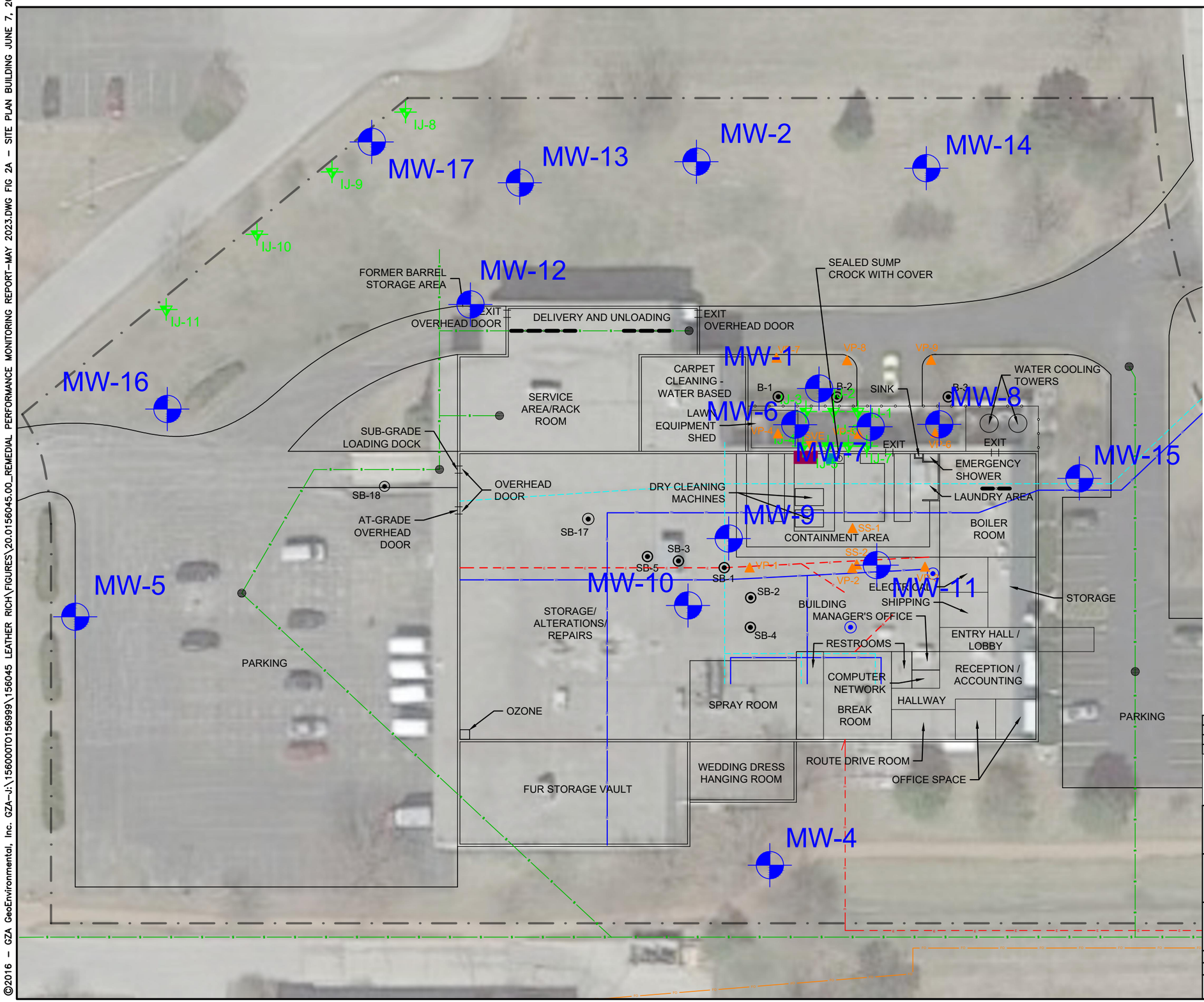
ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

SITE PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 2
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- SOIL BORINGS
- DRAIN
- SOIL VAPOR POINT
- SUB-SLAB VAPOR POINT
- TRENCH DRAIN
- WATER UTILITY
- SANITARY SEWER
- ELECTRIC
- STORM SEWER
- FIBER OPTIC / INTERNET
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019

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4. THE APPROXIMATE LOCATION OF THE SITE BOUNDARY WAS OBTAINED THROUGH USE OF THE LOCAL COUNTY ONLINE GIS MAPPING TOOL. THE PROGRAM NOTES THAT ALL PROPERTY BOUNDARIES ARE NOT SURVEYED AND ARE ONLY APPROXIMATE REPRESENTATIONS OF ACTUAL BOUNDARIES.

N / W / E / S

0 20' 40' 80'

SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

SITE PLAN WITH BUILDING FEATURES

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 2A
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF

MW-17
865.79

MW-13
865.73

MW-2
865.8

MW-14
865.67

865.75

MW-12
865.77

MW-16
865.76

MW-1
866.38

MW-6
866.47

MW-8
866.5

MW-7
866.47

MW-15
865.68

MW-9
866.50

866.50

865.75

MW-5
865.79

MW-10
866.21

MW-11
866.43

866.25

866.00

MW-4
865.75

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- 865.75 GROUNDWATER ELEVATION CONTOUR
- 865.67 GROUNDWATER ELEVATION (FT ABOVE MSL)
- FLOW DIRECTION

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
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N
W E
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0 20' 40' 80'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

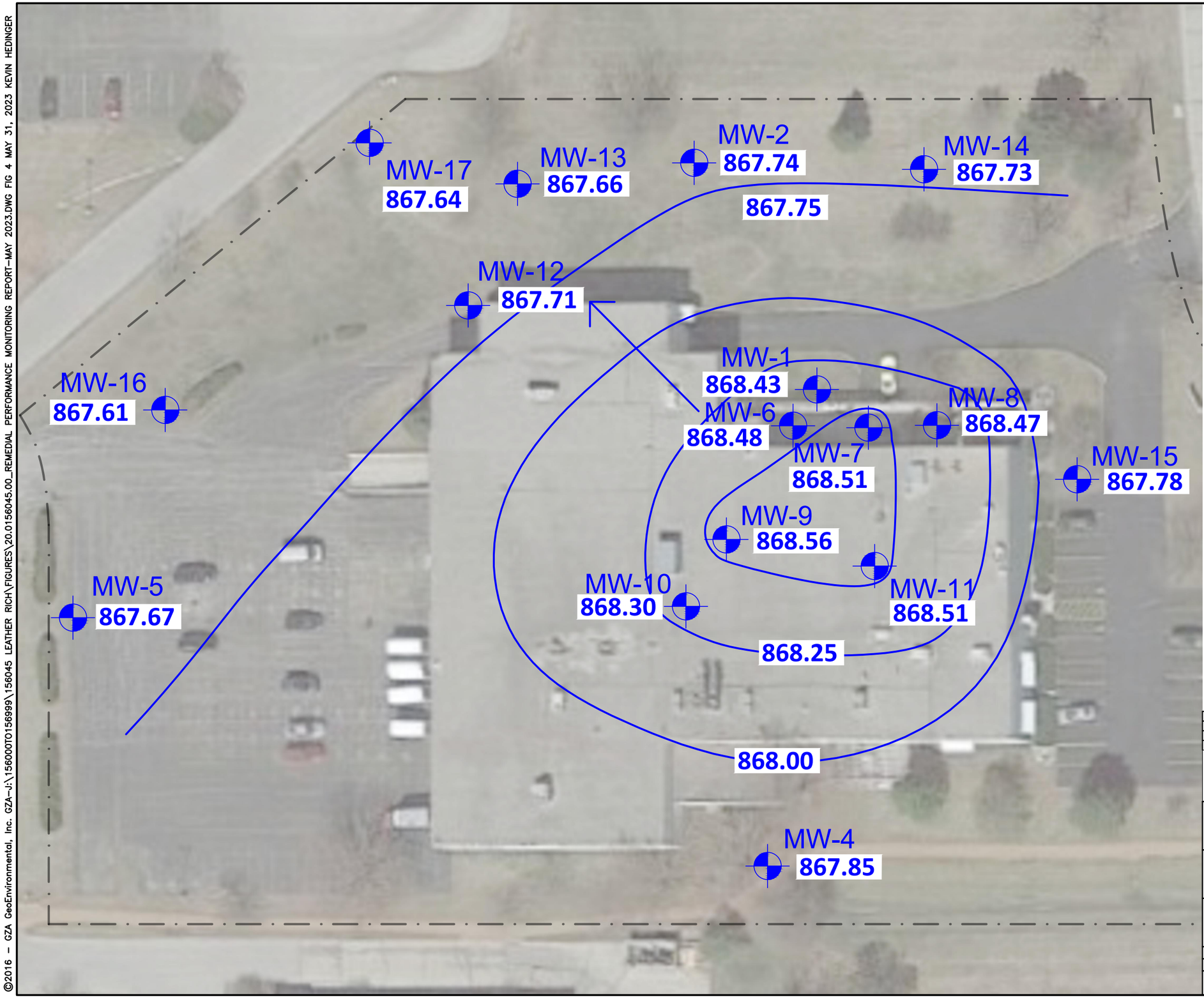
ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

GROUNDWATER FLOW
(APRIL 6, 2022)

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 3
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- 867.75 GROUNDWATER ELEVATION CONTOUR
- 867.73 GROUNDWATER ELEVATION (FT ABOVE MSL)
- FLOW DIRECTION

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
2. THE USE OF AERIAL PHOTOGRAPHY CAN OFTEN MAKE BUILDINGS AND OTHER SITE FEATURES APPEAR TO BE OVERLAPPING AND DISTORTED WHEN OVERLAID WITH ACTUAL SITE FEATURES.
3. THE LOCATION OF THE EXPLORATIONS WERE APPROXIMATELY DETERMINED BY LINE OF SIGHT AND/OR TAPE MEASUREMENTS FROM EXISTING TOPOGRAPHIC FEATURES. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
4. THE APPROXIMATE LOCATION OF THE SITE BOUNDARY WAS OBTAINED THROUGH USE OF THE LOCAL COUNTY ONLINE GIS MAPPING TOOL. THE PROGRAM NOTES THAT ALL PROPERTY BOUNDARIES ARE NOT SURVEYED AND ARE ONLY APPROXIMATE REPRESENTATIONS OF ACTUAL BOUNDARIES.

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NO.	ISSUE/DESCRIPTION	BY	DATE

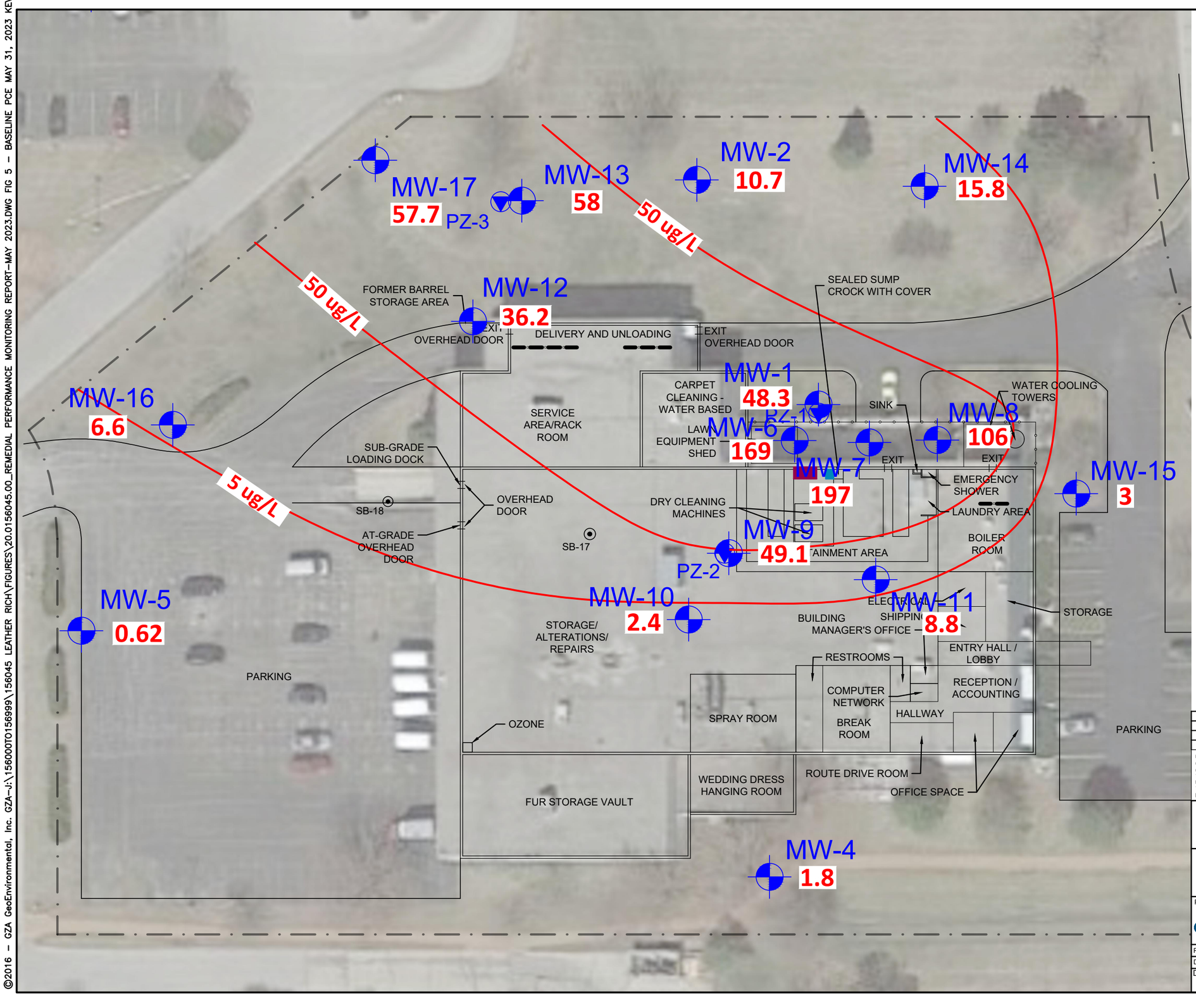
ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

GROUNDWATER FLOW
(MARCH 27, 2023)

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 4
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 5/22/2023	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- PCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- 10.7 PCE CONCENTRATION IN GROUNDWATER (ug/L)
  PCE ES = 5 ug/L
  PCE PAL = 0.5 ug/L

NOTES

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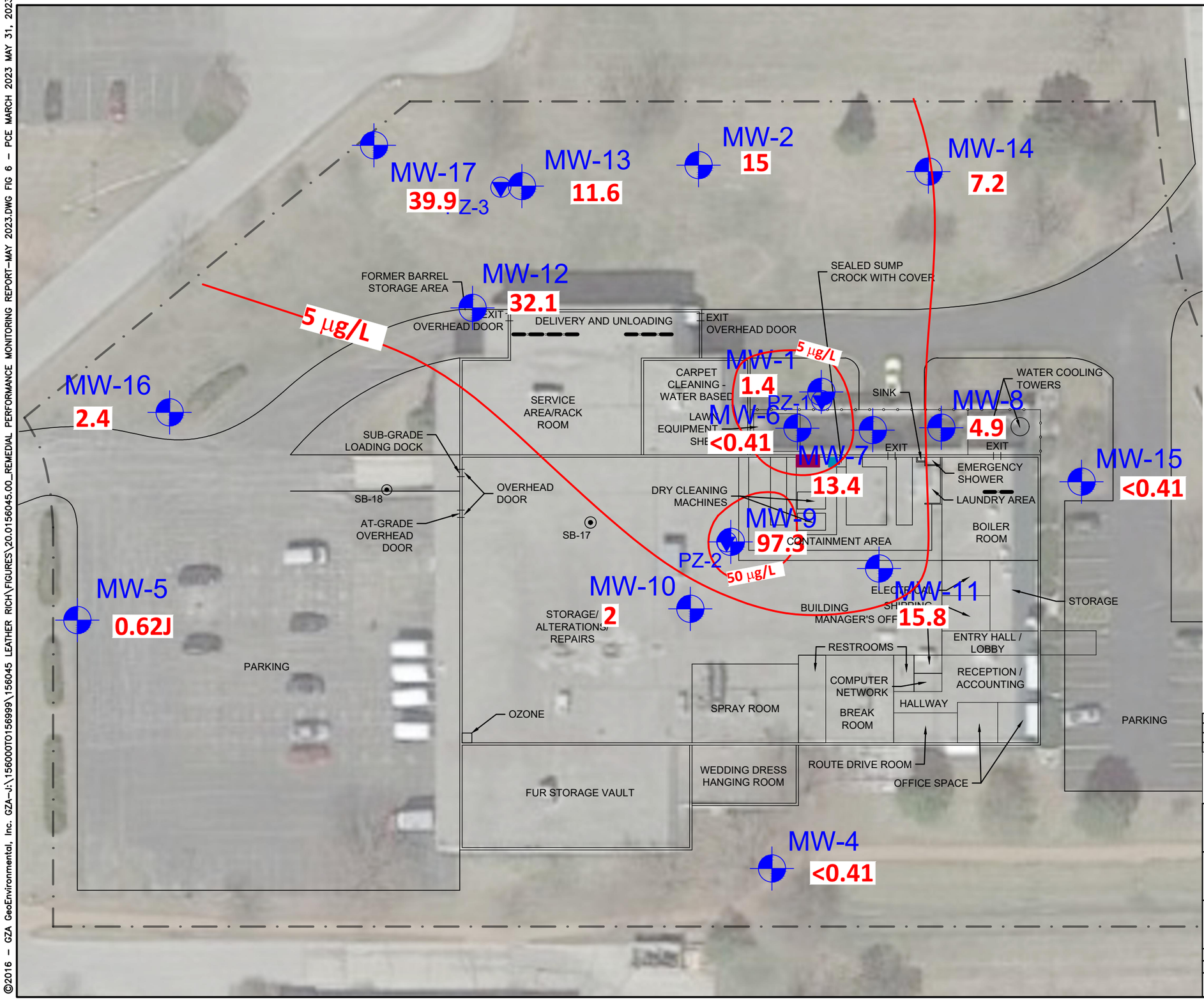
ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

BASELINE GROUNDWATER PCE DISTRIBUTION (APRIL 2022)

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 5
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- PCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER (DASHED WHERE INFERRED)
- 10.7 PCE CONCENTRATION IN GROUNDWATER (ug/L)
  PCE ES = 5 ug/L
  PCE PAL = 0.5 ug/L

NOTES

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ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

GROUNDWATER PCE DISTRIBUTION (MARCH 2023)

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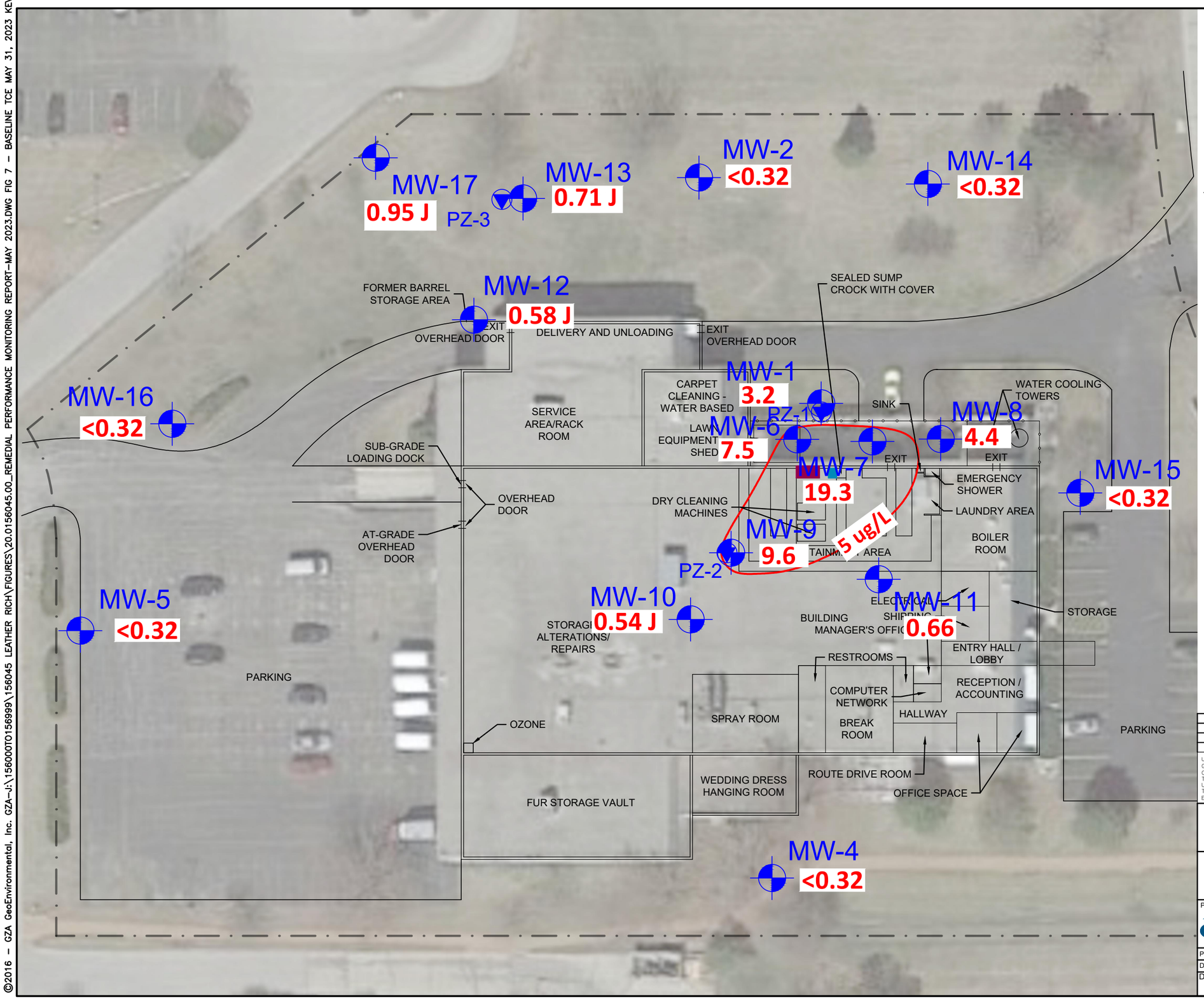
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 6
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- TCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.32 TCE CONCENTRATION IN GROUNDWATER (ug/L)
  TCE ES = 5 ug/L
  TCE PAL = 0.5 ug/L

NOTES

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ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

BASELINE GROUNDWATER TCE DISTRIBUTION (APRIL 2022)

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 7
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 5/22/2023	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF

MW-17
1.6 PZ-3

MW-13
2.7

MW-2
<0.32

MW-14
<0.32

MW-12
0.73J

MW-16
<0.32

MW-1
0.78

MW-6
<0.32

PZ-1

MW-8
4.9

MW-7
0.83J

MW-15
<0.32

MW-9
12.3

PZ-2
5 µg/L

MW-10
<0.32

MW-11
0.54J

MW-5
<0.32

MW-4
<0.32

FORMER BARREL STORAGE AREA
EXIT OVERHEAD DOOR
DELIVERY AND UNLOADING
EXIT OVERHEAD DOOR
SEALED SUMP CROCK WITH COVER
CARPET CLEANING - WATER BASE
LAWN EQUIPMENT SH
SERVICE AREA/RACK ROOM
SINK
WATER COOLING TOWERS
EXIT
EXIT
SUB-GRADE LOADING DOCK
OVERHEAD DOOR
AT-GRADE OVERHEAD DOOR
DRY CLEANING MACHINES
EMERGENCY SHOWER
LAUNDRY AREA
BOILER ROOM
TAINMENT AREA
ELECTRICAL SHIPPING
BUILDING MANAGER'S OFFI
STORAGE
STORAGE ALTERATIONS/ REPAIRS
RESTROOMS
ENTRY HALL / LOBBY
RECEPTION / ACCOUNTING
COMPUTER NETWORK
HALLWAY
BREAK ROOM
SPRAY ROOM
OZONE
PARKING
PARKING
WEDDING DRESS HANGING ROOM
ROUTE DRIVE ROOM
OFFICE SPACE
FUR STORAGE VAULT

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- TCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.32 TCE CONCENTRATION IN GROUNDWATER (ug/L)
  TCE ES = 5 ug/L
  TCE PAL = 0.5 ug/L

NOTES

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ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

GROUNDWATER TCE DISTRIBUTION
(MARCH 2023)

PREPARED BY:
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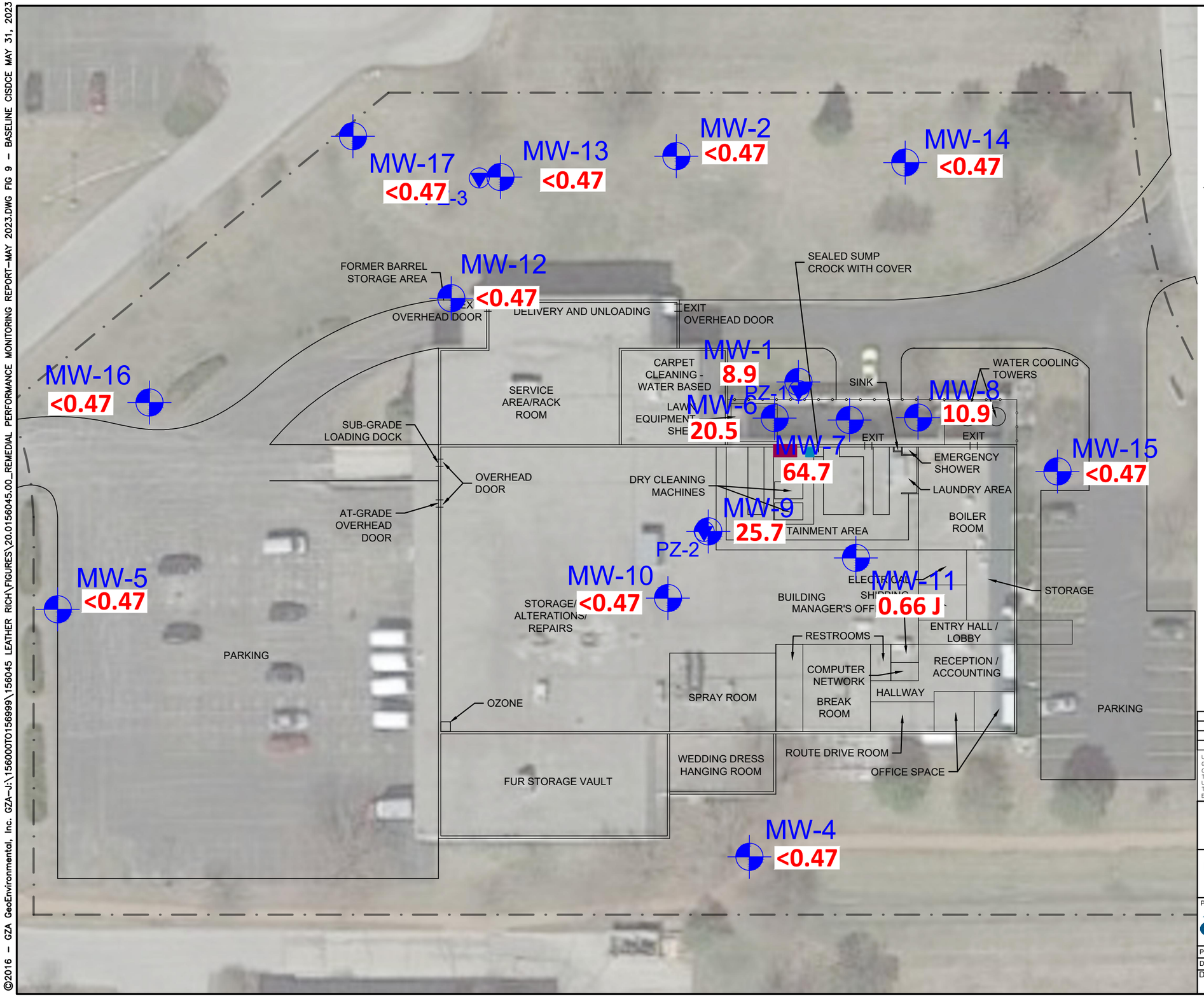
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 8
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 5/22/2023	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- Cis-1,2-DCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.47 Cis-1,2-DCE CONCENTRATION IN GROUNDWATER (ug/L)
  Cis-1,2-DCE ES 70 ug/L
  Cis-1,2-DCE PAL 7 ug/L

NOTES

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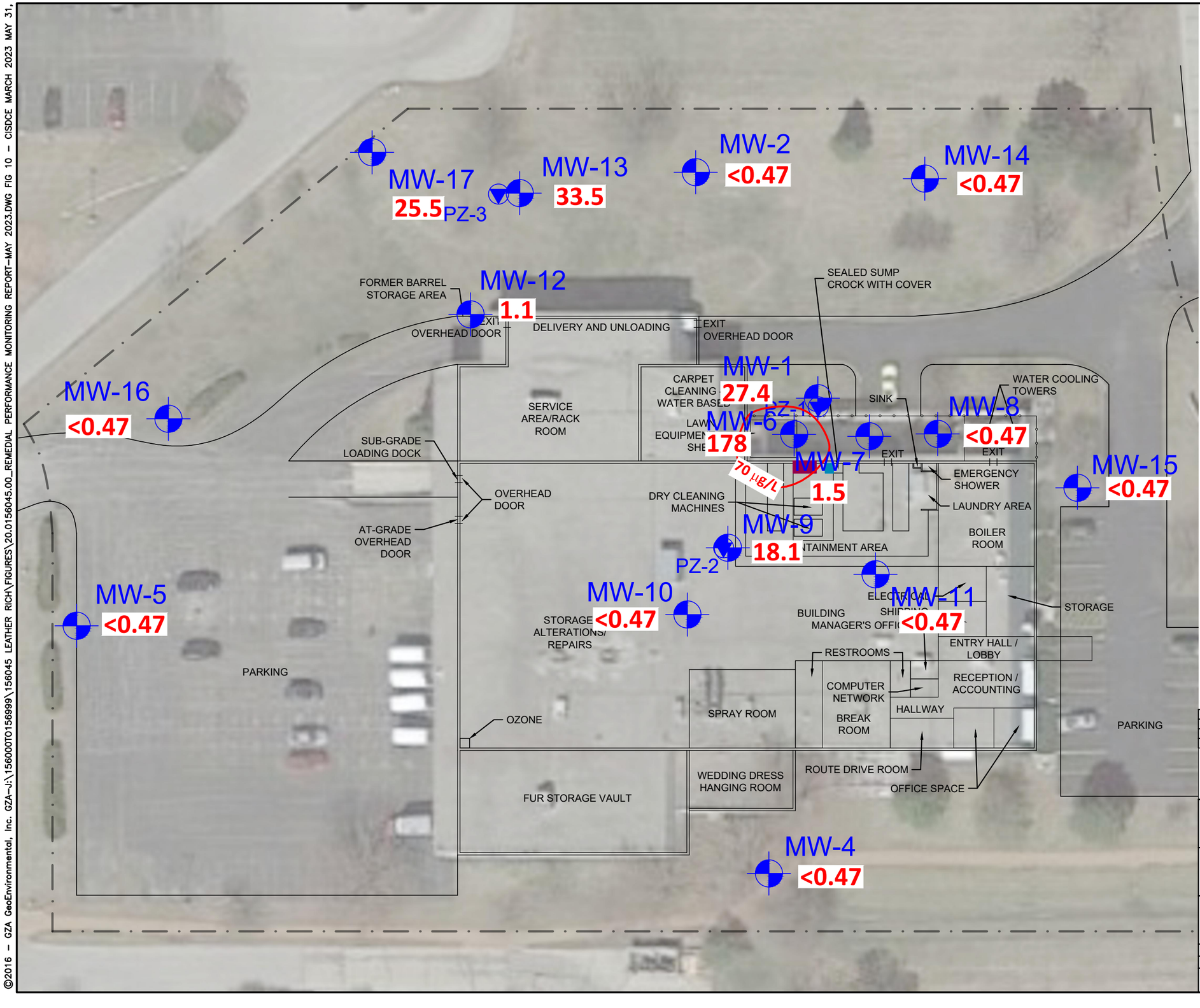
ENHANCED REDUCTIVE DECHLORINATION PERFORMANCE MONITORING REPORT

BASELINE GROUNDWATER Cis-1,2-DCE DISTRIBUTION (APRIL 2022)

PREPARED BY:	PREPARED FOR:
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 9
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- Cis-1,2-DCE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.47 Cis-1,2-DCE CONCENTRATION IN GROUNDWATER (ug/L)
  Cis-1,2-DCE ES 70 ug/L
  Cis-1,2-DCE PAL 7 ug/L

NOTES

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ENHANCED REDUCTIVE DECHLORINATION
PERFORMANCE MONITORING REPORT

GROUNDWATER Cis-1,2-DCE DISTRIBUTION (MARCH 2023)

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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PREPARED FOR:
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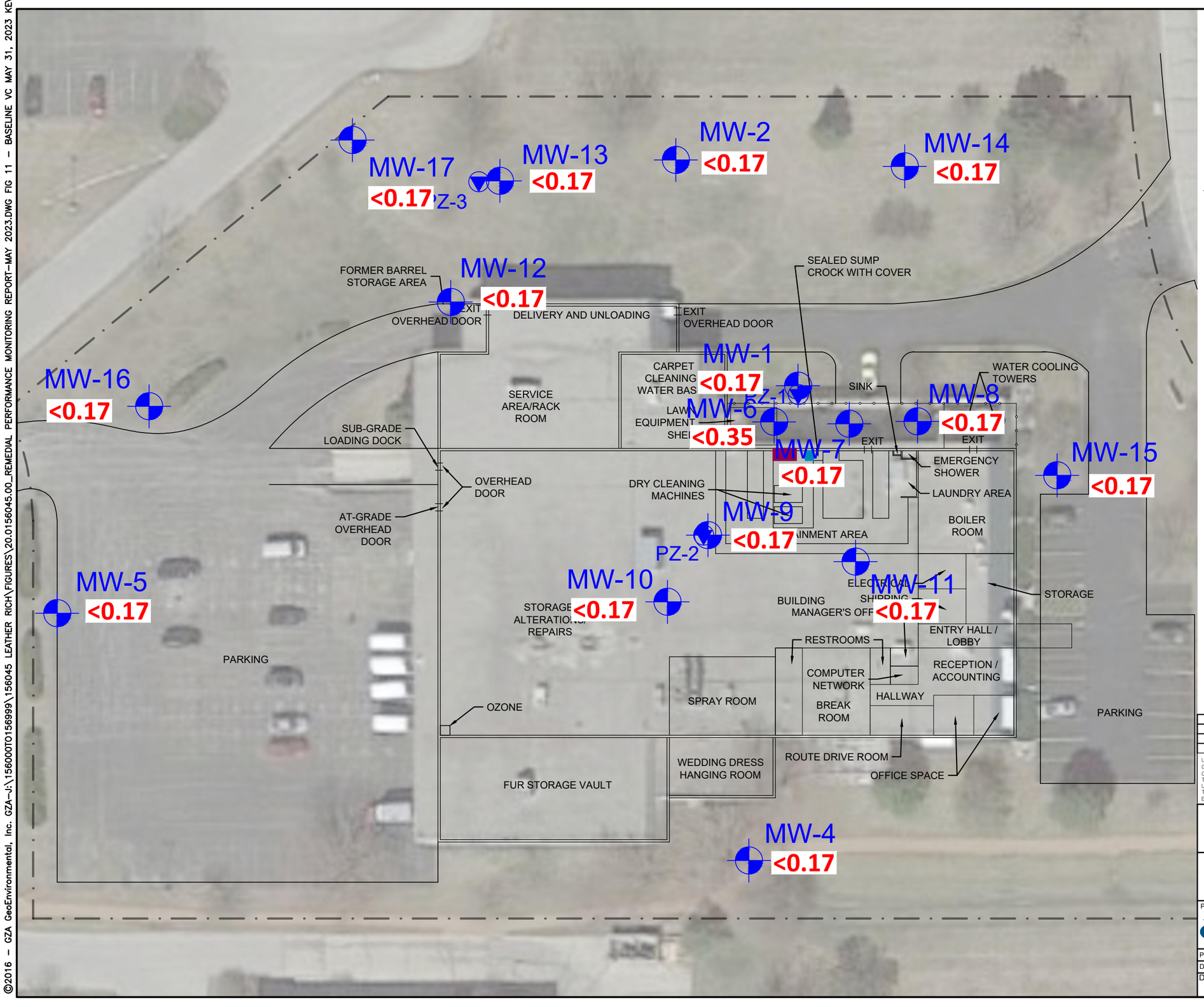
PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 10
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- VINYL CHLORIDE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.17 VINYL CHLORIDE CONCENTRATION IN GROUNDWATER (ug/L)
- VINYL CHLORIDE ES 0.2 ug/L
  VINYL CHLORIDE PAL 0.02 ug/L

NOTES

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PERFORMANCE MONITORING REPORT

BASELINE GROUNDWATER VINYL CHLORIDE DISTRIBUTION (APRIL 2022)

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Engineers and Scientists
www.gza.com

PREPARED FOR:
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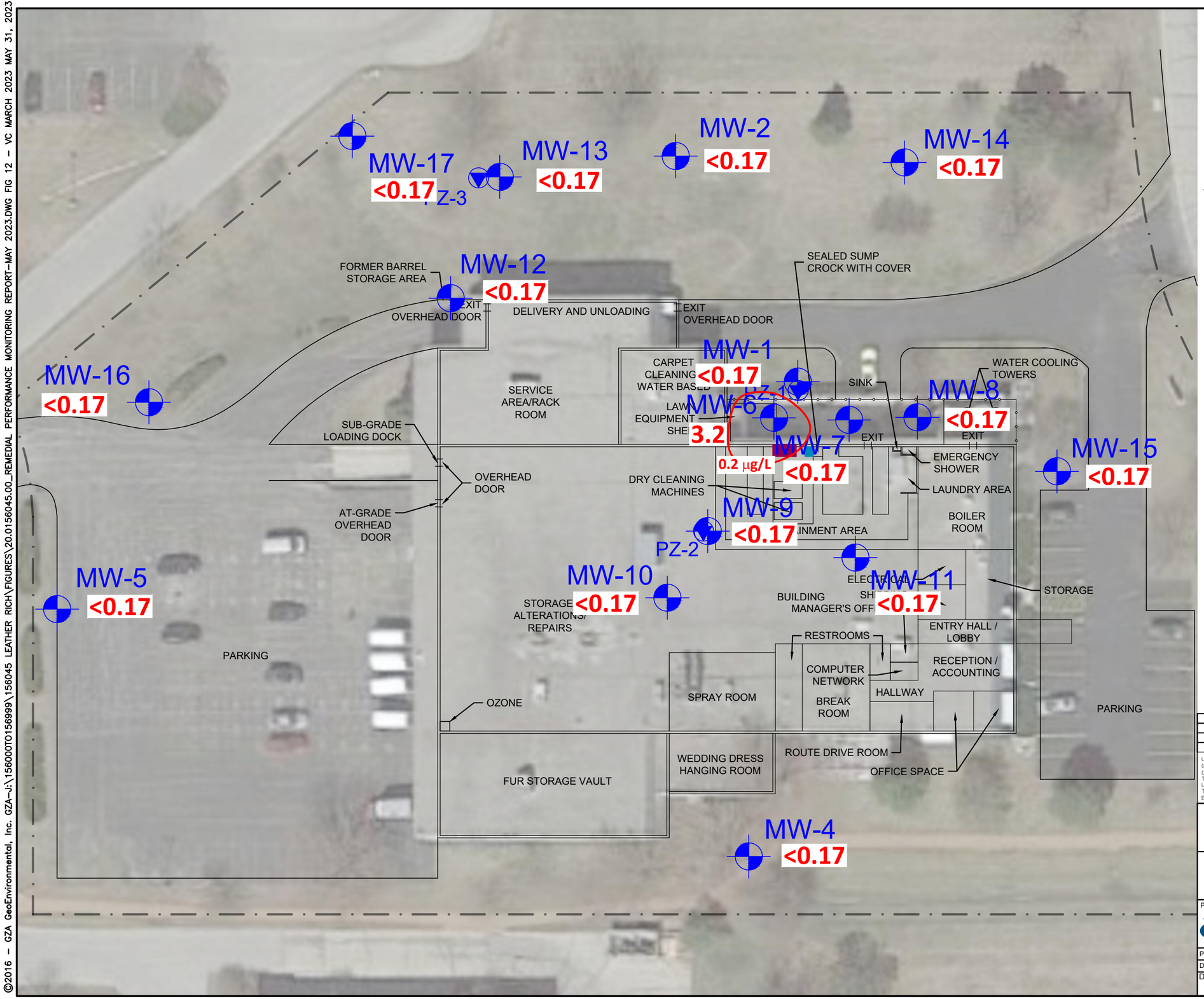
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 11
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- VINYL CHLORIDE CONCENTRATION ISOCONTOUR FOR GROUNDWATER
- <0.17 VINYL CHLORIDE CONCENTRATION IN GROUNDWATER (ug/L)
- VINYL CHLORIDE ES 0.2 ug/L
  VINYL CHLORIDE PAL 0.02 ug/L

NOTES

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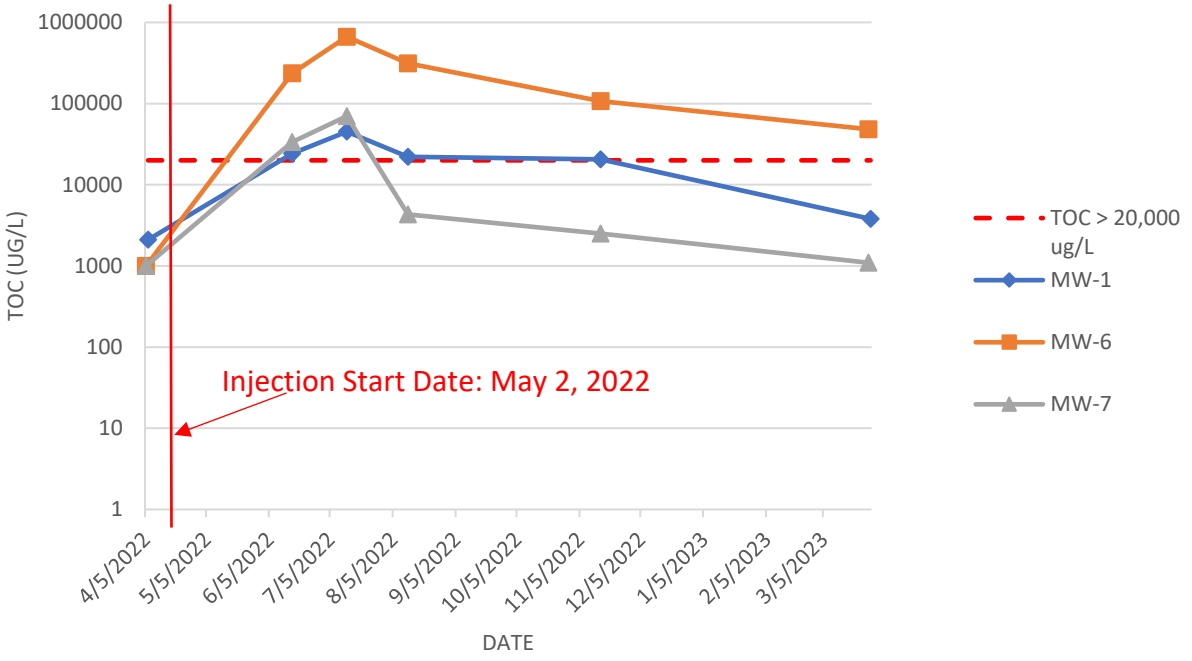
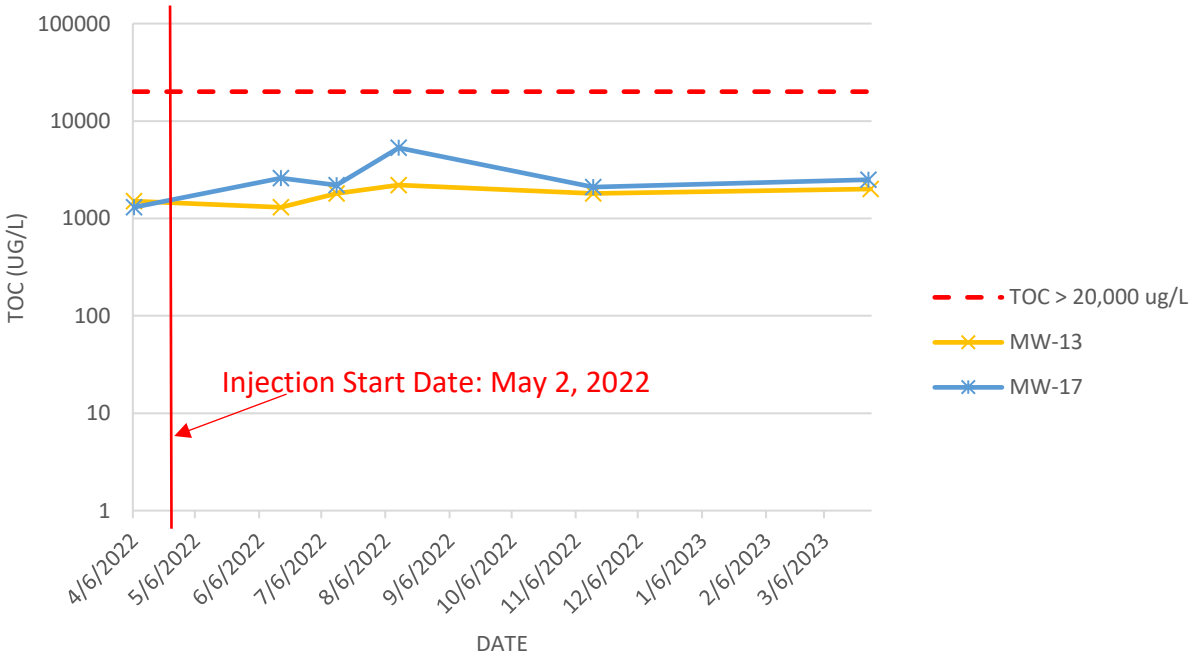
PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG 12
DESIGNED BY: SIS	DRAWN BY: KMH	SCALE: see above	
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF

GRAPHS

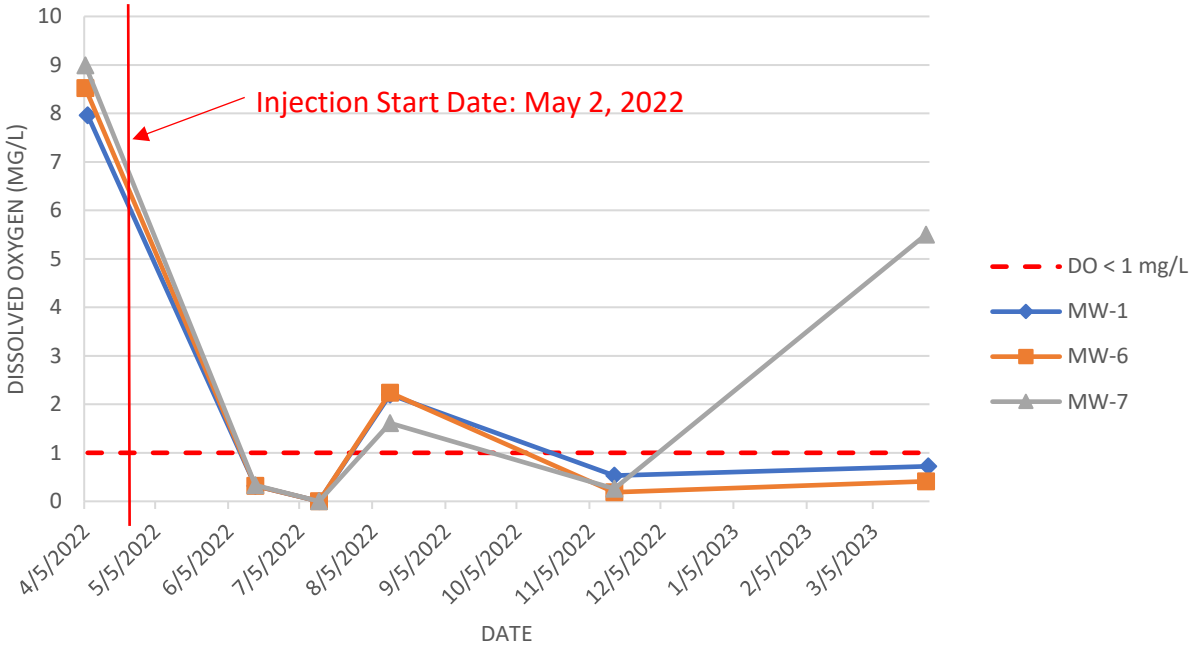
GRAPH 1- CONTAINMENT AREA MONITORING WELLS
TOC VS TIME



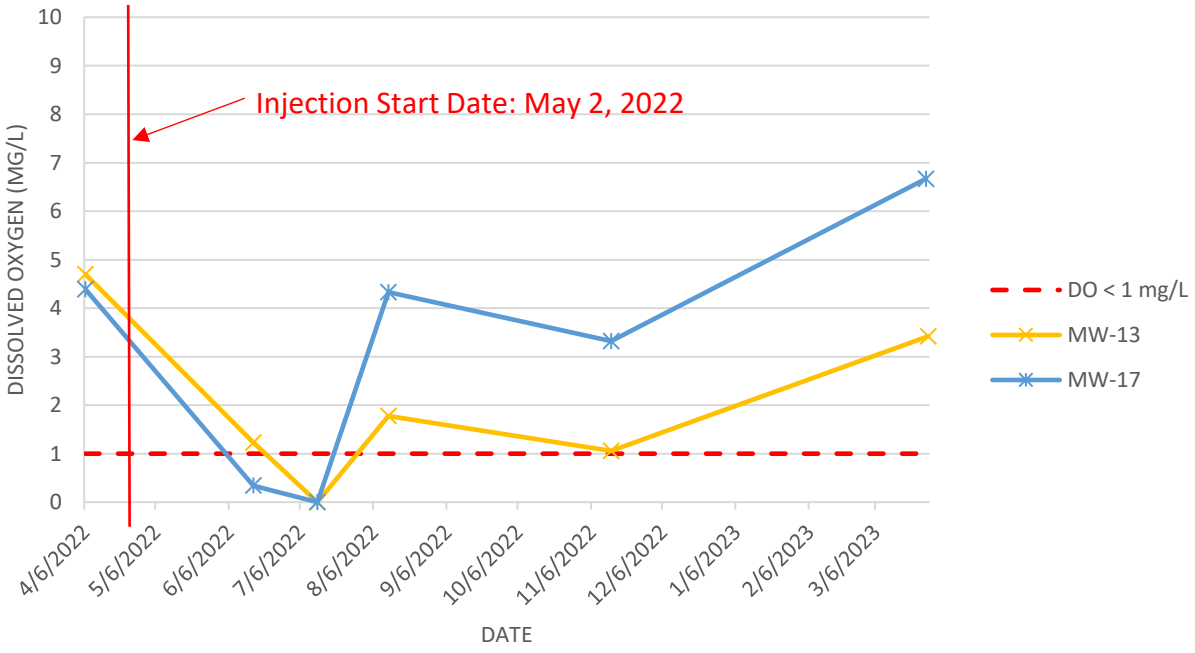
GRAPH 1A - NORTHWEST PROPERTY BOUNDARY MONITORING WELLS
TOC VS TIME

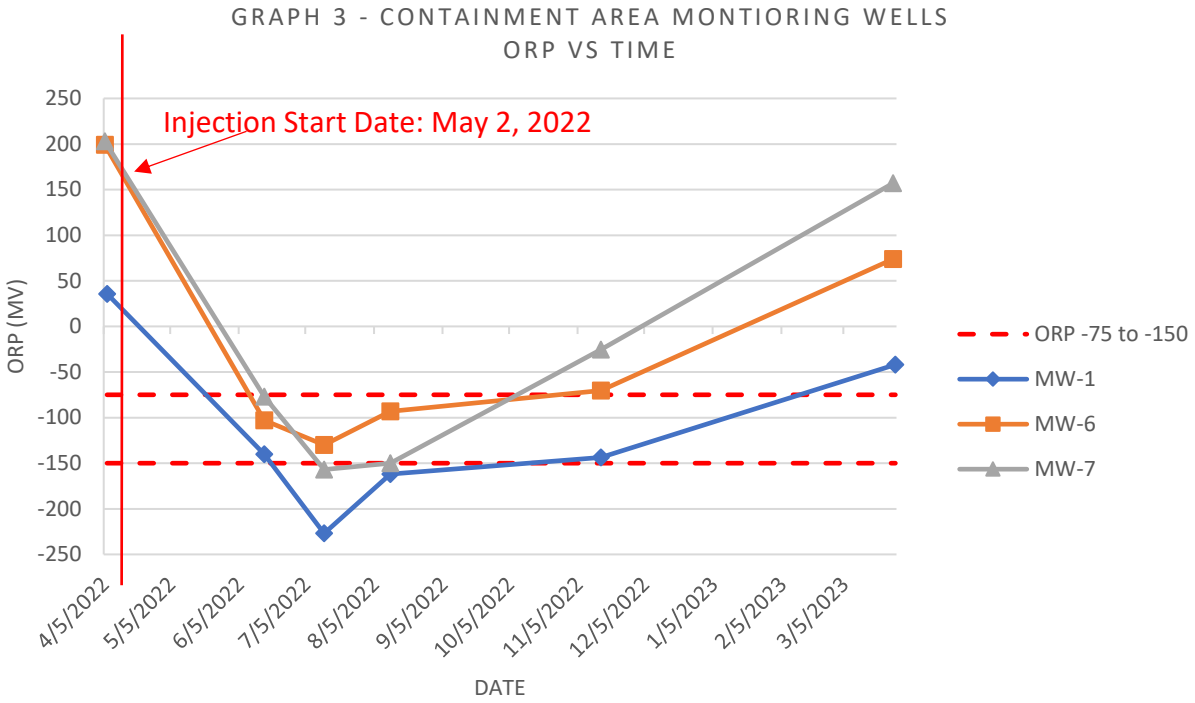


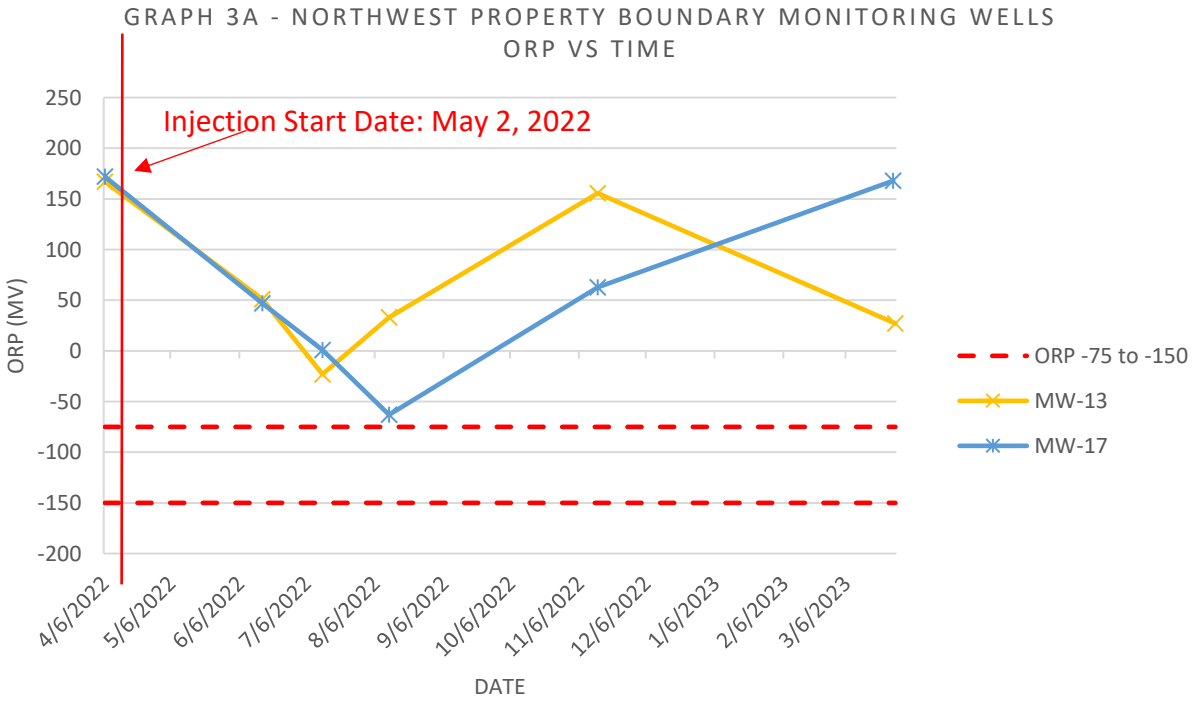
GRAPH 2 - CONTAINMENT AREA MONITORING WELLS
DISSOLVED OXYGEN VS TIME



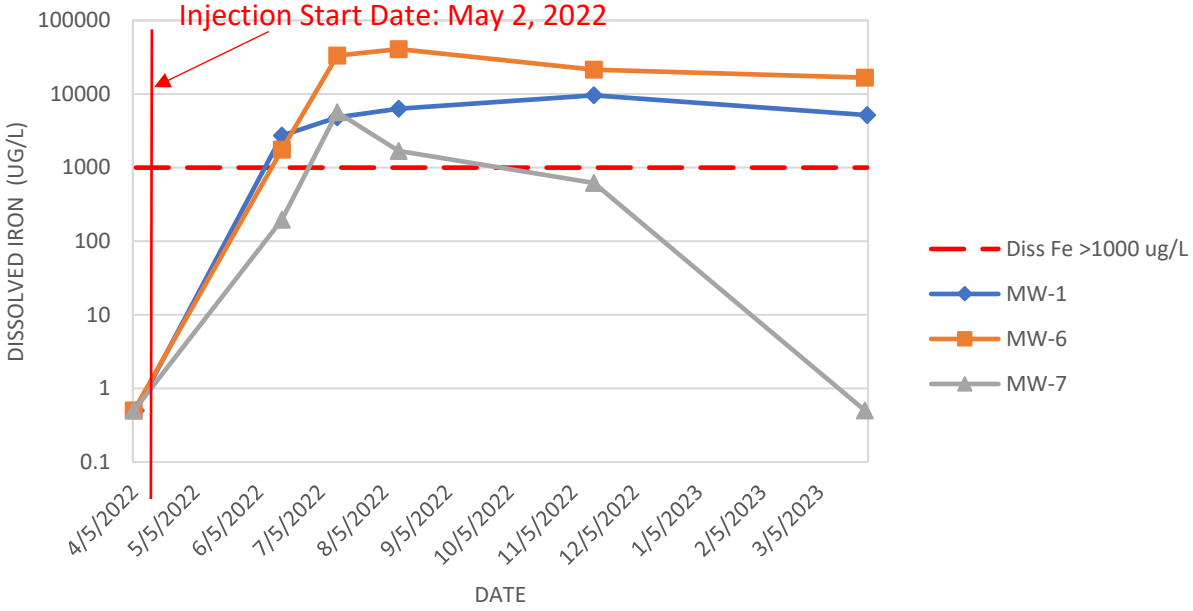
GRAPH 2A - NORTHWEST PROPERTY BOUNDARY MONITORING WELLS
DISSOLVED OXYGEN VS TIME



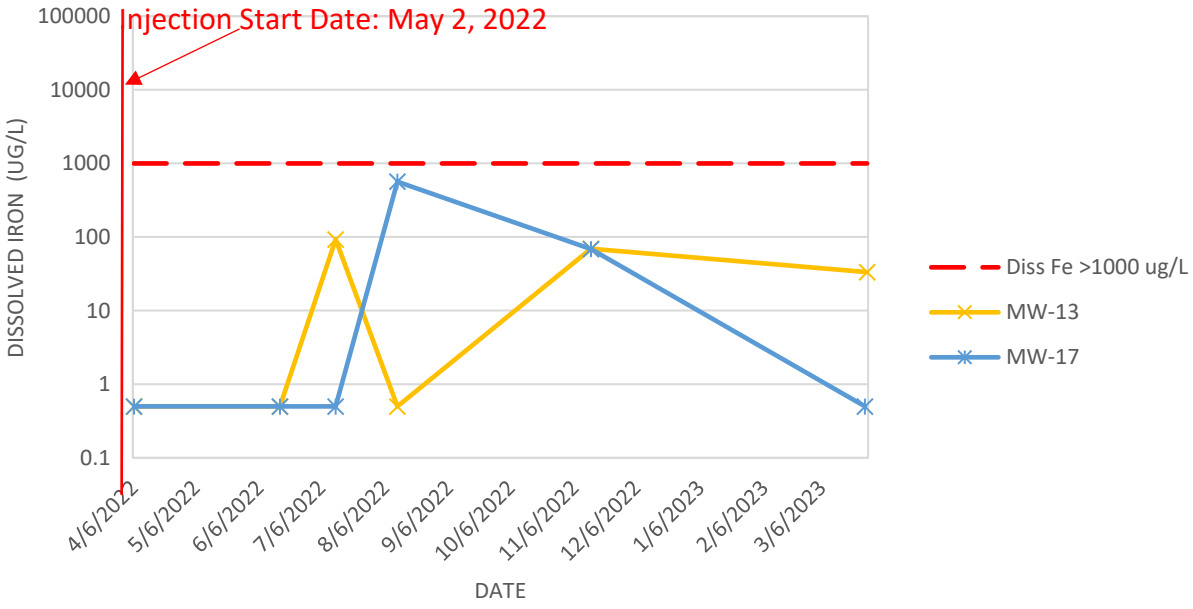

GRAPH 3 - CONTAINMENT AREA MONTIORING WELLS
ORP VS TIME
Injection Start Date: May 2, 2022
ORP (MV)
250
200
150
100
50
0
-50
-100
-150
-200
-250
4/5/2022
5/5/2022
6/5/2022
7/5/2022
8/5/2022
9/5/2022
10/5/2022
11/5/2022
12/5/2022
1/5/2023
2/5/2023
3/5/2023
DATE
ORP -75 to -150
MW-1
MW-6
MW-7

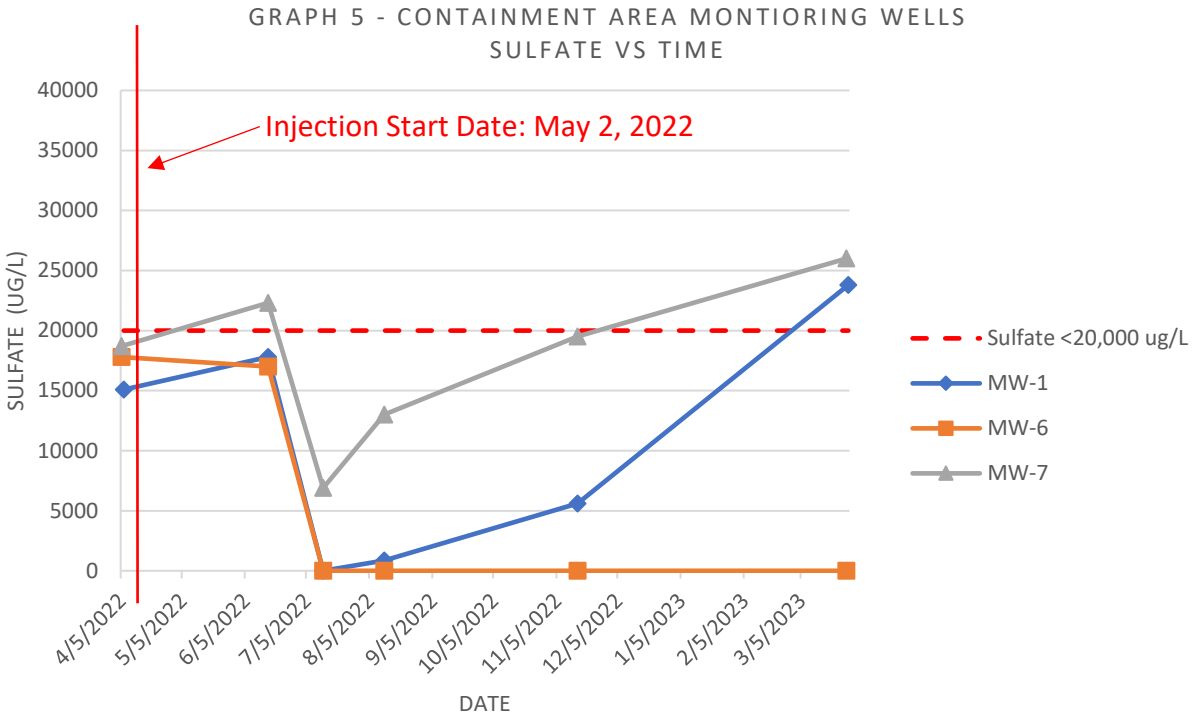

GRAPH 3A - NORTHWEST PROPERTY BOUNDARY MONITORING WELLS
ORP VS TIME
Injection Start Date: May 2, 2022
ORP (MV)
250
200
150
100
50
0
-50
-100
-150
-200
4/6/2022
5/6/2022
6/6/2022
7/6/2022
8/6/2022
9/6/2022
10/6/2022
11/6/2022
12/6/2022
1/6/2023
2/6/2023
3/6/2023
DATE
ORP -75 to -150
MW-13
MW-17

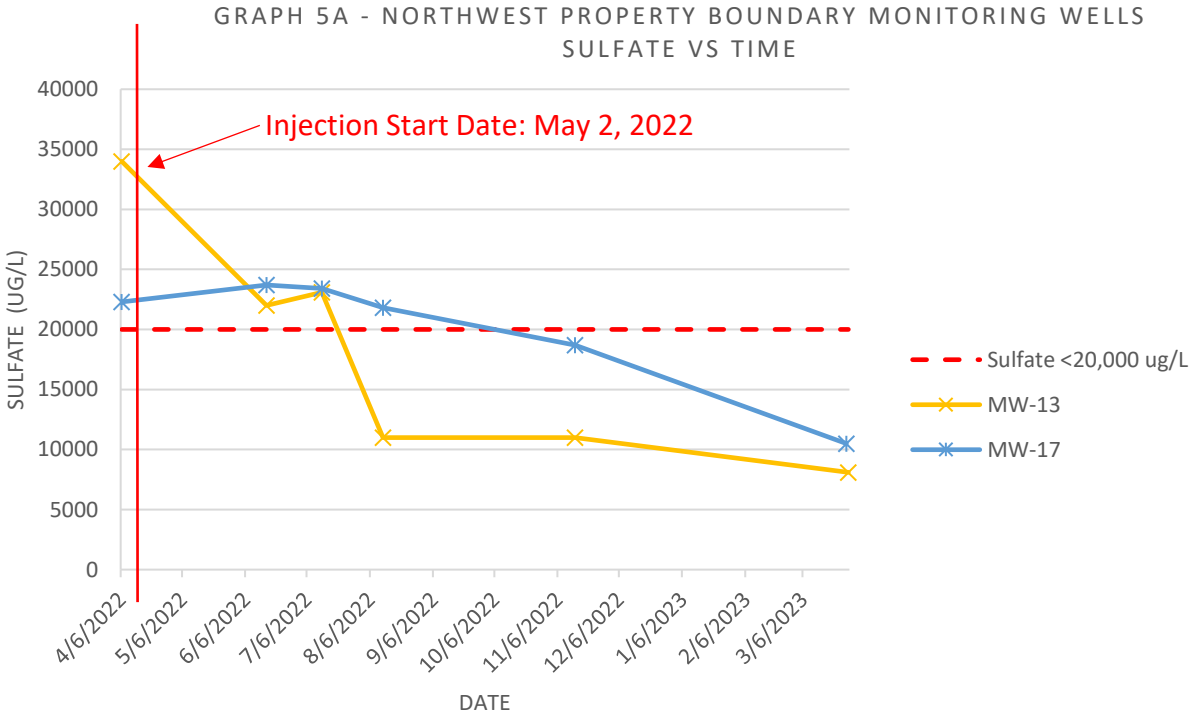
GRAPH 4 - CONTAINMENT AREA MONITORING WELLS
DISSOLVED IRON VS TIME



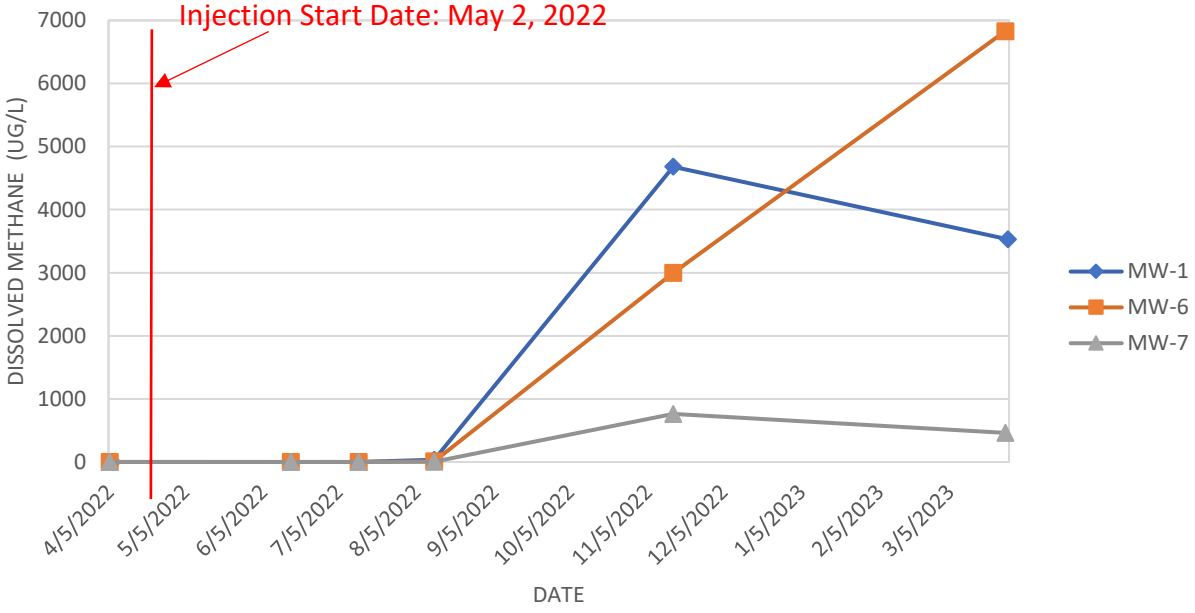
GRAPH 4A - NORTHWEST PROPERTY BOUNDARY AREA WELLS
DISSOLVED IRON VS TIME



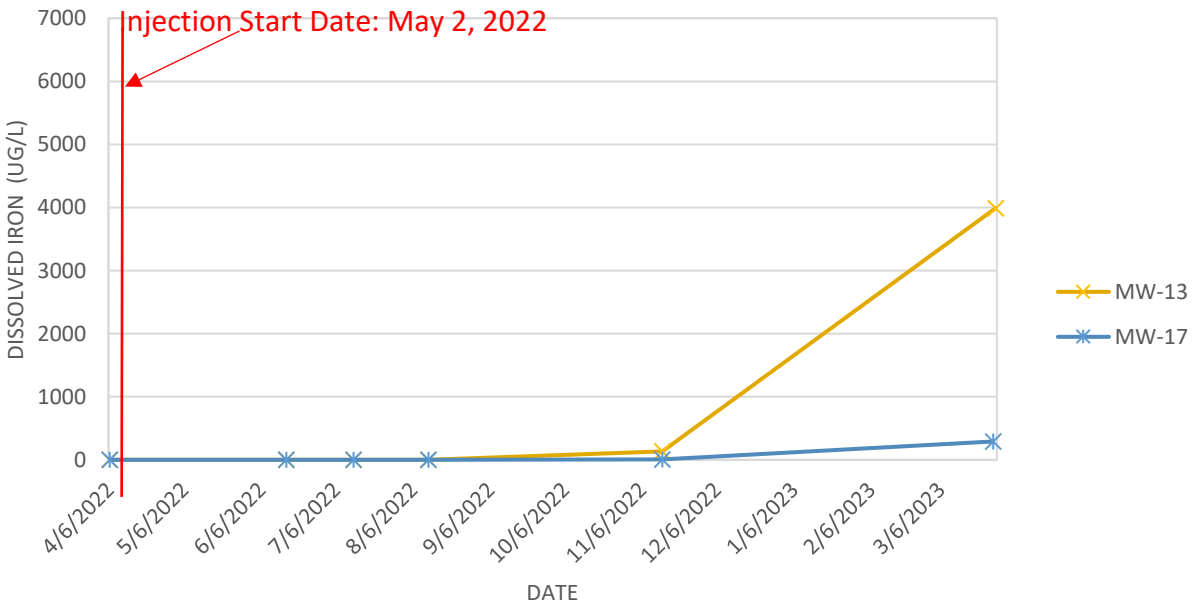

GRAPH 5 - CONTAINMENT AREA MONTIORING WELLS
SULFATE VS TIME
Injection Start Date: May 2, 2022
SULFATE (UG/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
4/5/2022
5/5/2022
6/5/2022
7/5/2022
8/5/2022
9/5/2022
10/5/2022
11/5/2022
12/5/2022
1/5/2023
2/5/2023
3/5/2023
DATE
Sulfate <20,000 ug/L
MW-1
MW-6
MW-7

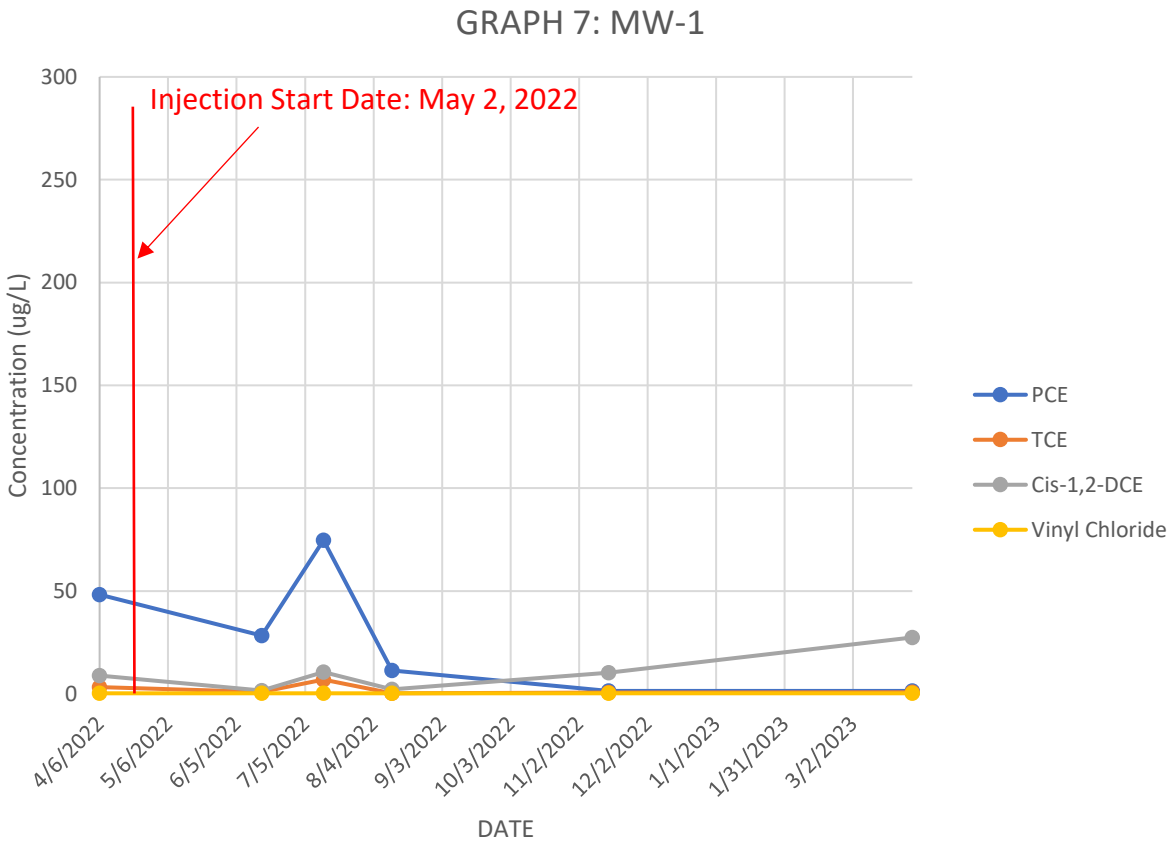

GRAPH 5A - NORTHWEST PROPERTY BOUNDARY MONITORING WELLS
SULFATE VS TIME
Injection Start Date: May 2, 2022
SULFATE (UG/L)
40000
35000
30000
25000
20000
15000
10000
5000
0
4/6/2022
5/6/2022
6/6/2022
7/6/2022
8/6/2022
9/6/2022
10/6/2022
11/6/2022
12/6/2022
1/6/2023
2/6/2023
3/6/2023
DATE
Sulfate <20,000 ug/L
MW-13
MW-17

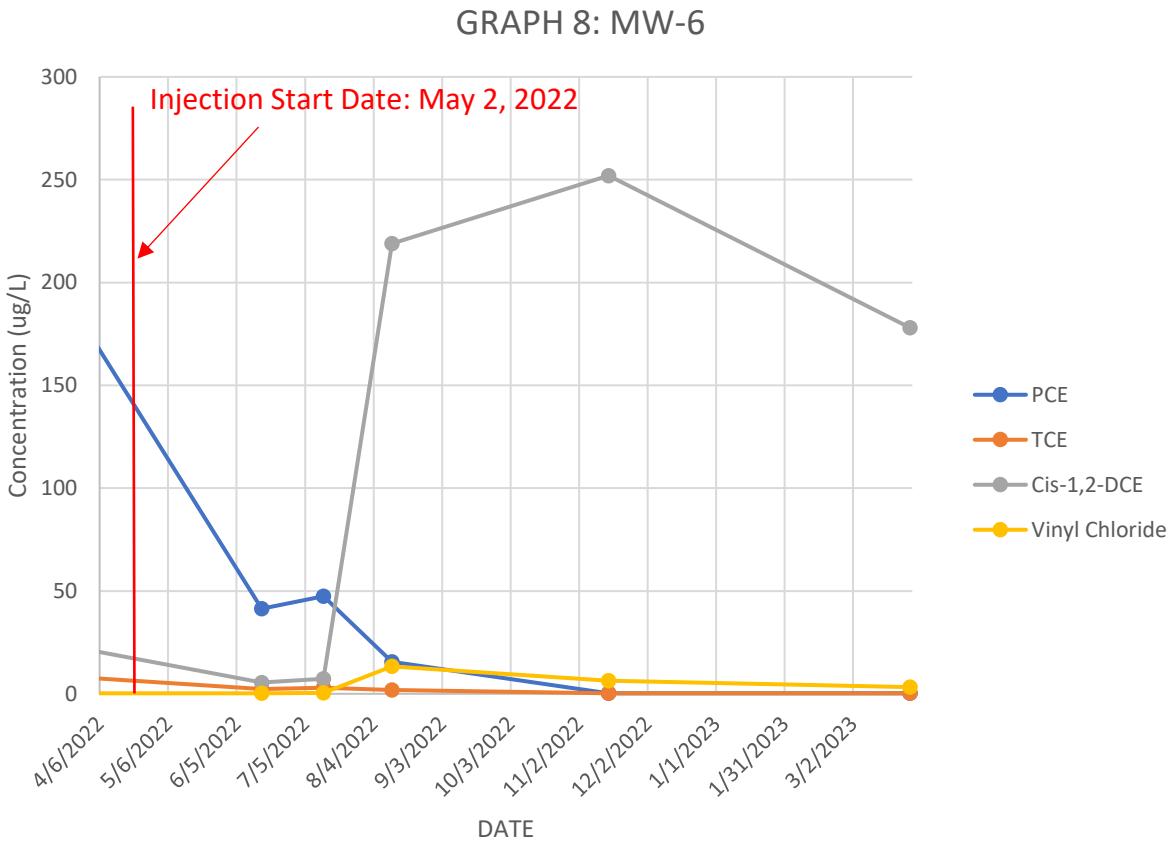
GRAPH 6 - CONTAINMENT AREA MONITORING WELLS
METHANE VS TIME

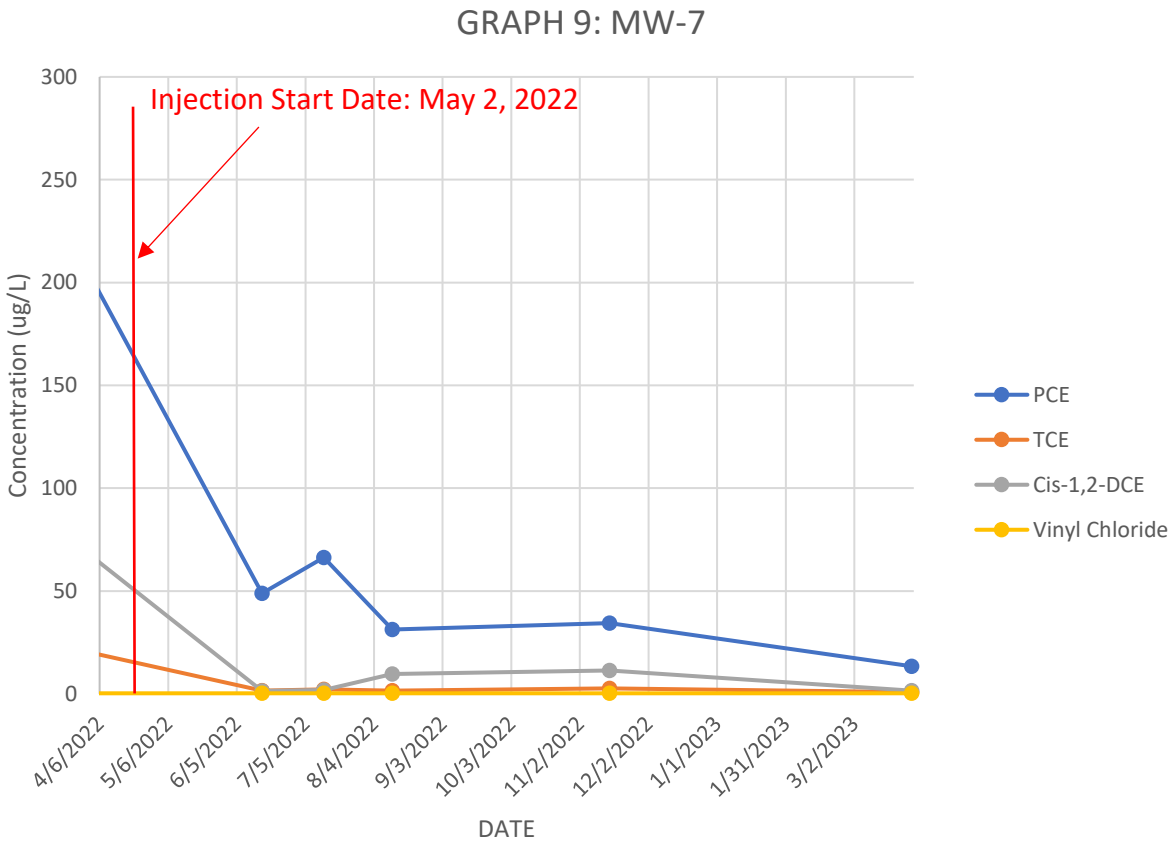


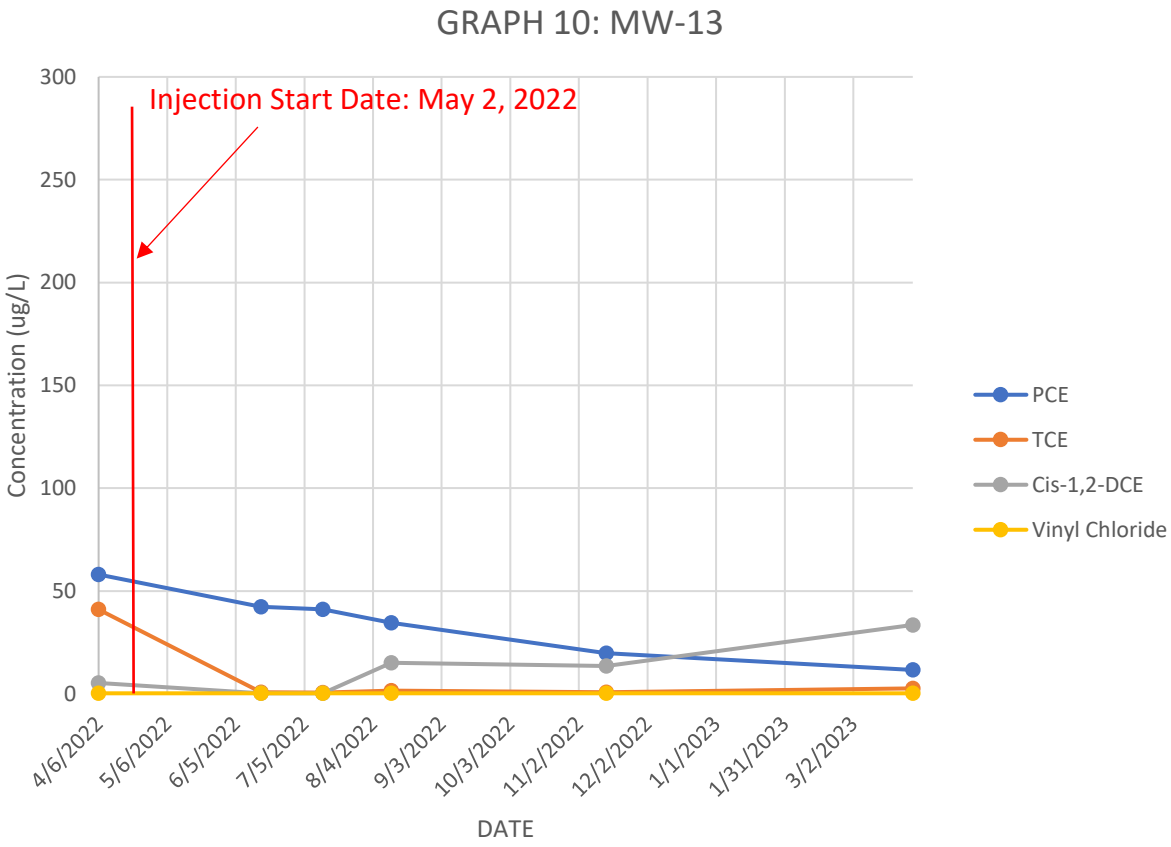
GRAPH 6A - NORTHWEST PROPERTY BOUNDARY AREA WELLS
METHANE VS TIME

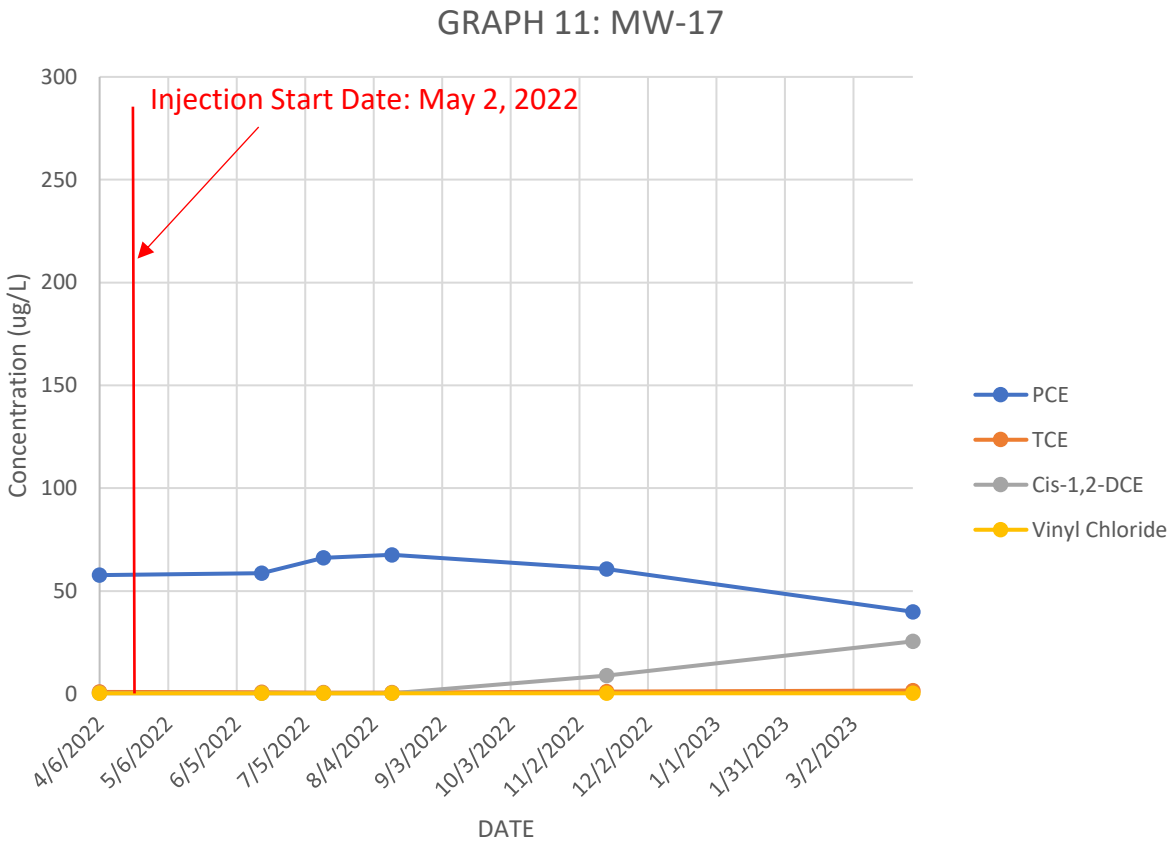



GRAPH 7: MW-1
Injection Start Date: May 2, 2022
Concentration (ug/L)
300
250
200
150
100
50
0
4/6/2022
5/6/2022
6/5/2022
7/5/2022
8/4/2022
9/3/2022
10/3/2022
11/2/2022
12/2/2022
1/1/2023
1/31/2023
3/2/2023
DATE
PCE
TCE
Cis-1,2-DCE
Vinyl Chloride


GRAPH 8: MW-6
Injection Start Date: May 2, 2022
Concentration (ug/L)
300
250
200
150
100
50
0
4/6/2022
5/6/2022
6/5/2022
7/5/2022
8/4/2022
9/3/2022
10/3/2022
11/2/2022
12/2/2022
1/1/2023
1/31/2023
3/2/2023
DATE
PCE
TCE
Cis-1,2-DCE
Vinyl Chloride


GRAPH 9: MW-7
Injection Start Date: May 2, 2022
Concentration (ug/L)
300
250
200
150
100
50
0
4/6/2022
5/6/2022
6/5/2022
7/5/2022
8/4/2022
9/3/2022
10/3/2022
11/2/2022
12/2/2022
1/1/2023
1/31/2023
3/2/2023
DATE
PCE
TCE
Cis-1,2-DCE
Vinyl Chloride


GRAPH 10: MW-13
Injection Start Date: May 2, 2022
Concentration (ug/L)
300
250
200
150
100
50
0
4/6/2022
5/6/2022
6/5/2022
7/5/2022
8/4/2022
9/3/2022
10/3/2022
11/2/2022
12/2/2022
1/1/2023
1/31/2023
3/2/2023
DATE
PCE
TCE
Cis-1,2-DCE
Vinyl Chloride


GRAPH 11: MW-17
Injection Start Date: May 2, 2022
Concentration (ug/L)
300
250
200
150
100
50
0
4/6/2022
5/6/2022
6/5/2022
7/5/2022
8/4/2022
9/3/2022
10/3/2022
11/2/2022
12/2/2022
1/1/2023
1/31/2023
3/2/2023
DATE
PCE
TCE
Cis-1,2-DCE
Vinyl Chloride

ATTACHMENT 1

Limitations

LIMITATIONS

STANDARD OF CARE

1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this Report may be found at the subject location(s).
2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state, or federal agency.
3. In conducting our work, GZA relied upon certain information made available by public agencies, Client, and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information, which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

4. The generalized soil profile(s) provided in our Report are based on widely spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location, refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this Report.
5. Water level readings have been made, as described in this Report, in monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this Report. Fluctuations in the level of the groundwater, however, occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

6. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

7. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the Report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment, and/or air. Future Site activities and uses may result in a requirement for additional testing.
8. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

9. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological, or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

10. Our opinions are based on available information, as described in the Report, and on our professional judgment. Additional observations made over time and/or space may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

11. In the event that the Client or others authorized to use this Report obtain additional information on environmental or hazardous waste issues at the Site not contained in this Report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this Report.

ADDITIONAL SERVICES

12. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT 2

Pre-Injection Laboratory Analytical Reports and Chain-of-Custody Documentation

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 13, 2022

Kevin Hedinger
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40242989001	**MW-6**	Water	04/05/22 10:45	04/06/22 08:00
40242989002	**MW-7**	Water	04/05/22 11:40	04/06/22 08:00
40242989003	**MW-8**	Water	04/05/22 12:25	04/06/22 08:00
40242989004	**MW-11**	Water	04/05/22 13:25	04/06/22 08:00
40242989005	**MW-9**	Water	04/05/22 14:05	04/06/22 08:00
40242989006	**PZ-2**	Water	04/05/22 14:35	04/06/22 08:00
40242989007	**MW-10**	Water	04/05/22 15:12	04/06/22 08:00
40242989008	**MW-18**	Water	04/05/22 12:01	04/06/22 08:00
40242989009	**MW-19**	Water	04/05/22 12:48	04/06/22 08:00
40242989010	**MW-20**	Water	04/05/22 13:45	04/06/22 08:00
40242989011	**MW-21**	Water	04/05/22 00:00	04/06/22 08:00
40242989012	**MW-5**	Water	04/05/22 15:17	04/06/22 08:00
40242989013	**DUP-1**	Water	04/05/22 00:00	04/06/22 08:00
40242989014	**TRIP**	Water	04/05/22 00:00	04/06/22 08:00

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40242989001	**MW-6**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989002	**MW-7**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989003	**MW-8**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989004	**MW-11**	EPA 8260	EIB	8	PASI-G
40242989005	**MW-9**	EPA 8260	EIB	8	PASI-G
40242989006	**PZ-2**	EPA 8260	EIB	8	PASI-G
40242989007	**MW-10**	EPA 8260	EIB	8	PASI-G
40242989008	**MW-18**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989009	**MW-19**	EPA 8260	EIB	8	PASI-G
40242989010	**MW-20**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40242989011	**MW-21**	EPA 8260	EIB	8	PASI-G
40242989012	**MW-5**	EPA 8260	EIB	8	PASI-G
40242989013	**DUP-1**	EPA 8260	EIB	8	PASI-G
40242989014	**TRIP**	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40242989001	**MW-6**					
EPA 8260	Tetrachloroethene	169	ug/L	2.0	04/12/22 09:53	
EPA 8260	Trichloroethene	7.5	ug/L	2.0	04/12/22 09:53	
EPA 8260	cis-1,2-Dichloroethene	20.5	ug/L	2.0	04/12/22 09:53	
EPA 8260	trans-1,2-Dichloroethene	2.2	ug/L	2.0	04/12/22 09:53	
EPA 300.0	Sulfate	17.8	mg/L	2.0	04/11/22 06:01	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/11/22 03:58	
40242989002	**MW-7**					
EPA 8260	Tetrachloroethene	197	ug/L	1.0	04/11/22 14:02	
EPA 8260	Trichloroethene	19.3	ug/L	1.0	04/11/22 14:02	
EPA 8260	cis-1,2-Dichloroethene	64.7	ug/L	1.0	04/11/22 14:02	
EPA 8260	trans-1,2-Dichloroethene	4.7	ug/L	1.0	04/11/22 14:02	
EPA 300.0	Sulfate	18.7	mg/L	2.0	04/11/22 06:16	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/11/22 05:29	
40242989003	**MW-8**					
EPA 8260	Tetrachloroethene	106	ug/L	1.0	04/11/22 14:23	
EPA 8260	Trichloroethene	4.4	ug/L	1.0	04/11/22 14:23	
EPA 8260	cis-1,2-Dichloroethene	10.9	ug/L	1.0	04/11/22 14:23	
EPA 8260	trans-1,2-Dichloroethene	0.84J	ug/L	1.0	04/11/22 14:23	
EPA 300.0	Sulfate	20.7	mg/L	2.0	04/11/22 06:31	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/11/22 05:45	
40242989004	**MW-11**					
EPA 8260	Tetrachloroethene	8.8	ug/L	1.0	04/11/22 14:43	
EPA 8260	Trichloroethene	0.66J	ug/L	1.0	04/11/22 14:43	
EPA 8260	cis-1,2-Dichloroethene	0.66J	ug/L	1.0	04/11/22 14:43	
40242989005	**MW-9**					
EPA 8260	Tetrachloroethene	49.1	ug/L	1.0	04/11/22 15:03	
EPA 8260	Trichloroethene	9.6	ug/L	1.0	04/11/22 15:03	
EPA 8260	cis-1,2-Dichloroethene	25.7	ug/L	1.0	04/11/22 15:03	
EPA 8260	trans-1,2-Dichloroethene	2.3	ug/L	1.0	04/11/22 15:03	
40242989006	**PZ-2**					
EPA 8260	Tetrachloroethene	5.3	ug/L	1.0	04/11/22 16:36	
EPA 8260	Trichloroethene	1.2	ug/L	1.0	04/11/22 16:36	
40242989007	**MW-10**					
EPA 8260	Tetrachloroethene	2.4	ug/L	1.0	04/11/22 16:57	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	04/11/22 16:57	
40242989008	**MW-18**					
EPA 6010D	Iron, Dissolved	90.3J	ug/L	100	04/07/22 16:35	
EPA 8260	Tetrachloroethene	93.0	ug/L	1.0	04/11/22 17:17	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	04/11/22 17:17	
EPA 300.0	Sulfate	22.7	mg/L	2.0	04/11/22 06:46	
SM 5310C	Total Organic Carbon	1.4	mg/L	0.50	04/11/22 06:02	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40242989009	**MW-19**					
EPA 8260	Tetrachloroethene	6.4	ug/L	1.0	04/11/22 19:00	
40242989010	**MW-20**					
EPA 8260	Tetrachloroethene	106	ug/L	2.5	04/11/22 19:41	
EPA 8260	Trichloroethene	1.4J	ug/L	2.5	04/11/22 19:41	
EPA 300.0	Sulfate	17.4	mg/L	2.0	04/11/22 07:01	
SM 5310C	Total Organic Carbon	1.3J	mg/L	1.5	04/11/22 14:24	D3
40242989011	**MW-21**					
EPA 8260	Tetrachloroethene	59.9	ug/L	1.0	04/11/22 17:38	
40242989012	**MW-5**					
EPA 8260	Tetrachloroethene	0.62J	ug/L	1.0	04/12/22 08:10	
40242989013	**DUP-1**					
EPA 8260	Tetrachloroethene	57.1	ug/L	1.0	04/11/22 18:19	

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-6 **Lab ID: 40242989001** Collected: 04/05/22 10:45 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/12/22 11:56	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/12/22 11:56	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/12/22 11:56	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		04/07/22 16:20	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**169**	ug/L	2.0	0.82	2		04/12/22 09:53	127-18-4	
Trichloroethene	**7.5**	ug/L	2.0	0.64	2		04/12/22 09:53	79-01-6	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		04/12/22 09:53	75-01-4	
cis-1,2-Dichloroethene	**20.5**	ug/L	2.0	0.94	2		04/12/22 09:53	156-59-2	
trans-1,2-Dichloroethene	**2.2**	ug/L	2.0	1.1	2		04/12/22 09:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		04/12/22 09:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2		04/12/22 09:53	2199-69-1	
Toluene-d8 (S)	99	%	70-130		2		04/12/22 09:53	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**17.8**	mg/L	2.0	0.44	1		04/11/22 06:01	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.0**	mg/L	0.50	0.14	1		04/11/22 03:58	7440-44-0	

Sample: MW-7 **Lab ID: 40242989002** Collected: 04/05/22 11:40 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/08/22 13:41	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/08/22 13:41	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/08/22 13:41	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		04/07/22 16:27	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-7 **Lab ID: 40242989002** Collected: 04/05/22 11:40 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**197**	ug/L	1.0	0.41	1		04/11/22 14:02	127-18-4	
Trichloroethene	**19.3**	ug/L	1.0	0.32	1		04/11/22 14:02	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 14:02	75-01-4	
cis-1,2-Dichloroethene	**64.7**	ug/L	1.0	0.47	1		04/11/22 14:02	156-59-2	
trans-1,2-Dichloroethene	**4.7**	ug/L	1.0	0.53	1		04/11/22 14:02	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 14:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/11/22 14:02	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 14:02	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**18.7**	mg/L	2.0	0.44	1		04/11/22 06:16	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.0**	mg/L	0.50	0.14	1		04/11/22 05:29	7440-44-0	

Sample: MW-8 **Lab ID: 40242989003** Collected: 04/05/22 12:25 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/08/22 13:48	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/08/22 13:48	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/08/22 13:48	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		04/07/22 16:32	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**106**	ug/L	1.0	0.41	1		04/11/22 14:23	127-18-4	
Trichloroethene	**4.4**	ug/L	1.0	0.32	1		04/11/22 14:23	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 14:23	75-01-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	1.0	0.47	1		04/11/22 14:23	156-59-2	
trans-1,2-Dichloroethene	**0.84J**	ug/L	1.0	0.53	1		04/11/22 14:23	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/11/22 14:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/11/22 14:23	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 14:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-8 **Lab ID: 40242989003** Collected: 04/05/22 12:25 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**20.7**	mg/L	2.0	0.44	1		04/11/22 06:31	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.1**	mg/L	0.50	0.14	1		04/11/22 05:45	7440-44-0	

Sample: MW-11 **Lab ID: 40242989004** Collected: 04/05/22 13:25 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**8.8**	ug/L	1.0	0.41	1		04/11/22 14:43	127-18-4	
Trichloroethene	**0.66J**	ug/L	1.0	0.32	1		04/11/22 14:43	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 14:43	75-01-4	
cis-1,2-Dichloroethene	**0.66J**	ug/L	1.0	0.47	1		04/11/22 14:43	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 14:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 14:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/11/22 14:43	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 14:43	2037-26-5	

Sample: MW-9 **Lab ID: 40242989005** Collected: 04/05/22 14:05 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**49.1**	ug/L	1.0	0.41	1		04/11/22 15:03	127-18-4	
Trichloroethene	**9.6**	ug/L	1.0	0.32	1		04/11/22 15:03	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 15:03	75-01-4	
cis-1,2-Dichloroethene	**25.7**	ug/L	1.0	0.47	1		04/11/22 15:03	156-59-2	
trans-1,2-Dichloroethene	**2.3**	ug/L	1.0	0.53	1		04/11/22 15:03	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 15:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/11/22 15:03	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 15:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: PZ-2 **Lab ID: 40242989006** Collected: 04/05/22 14:35 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**5.3**	ug/L	1.0	0.41	1		04/11/22 16:36	127-18-4	
Trichloroethene	**1.2**	ug/L	1.0	0.32	1		04/11/22 16:36	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 16:36	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 16:36	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 16:36	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 16:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 16:36	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 16:36	2037-26-5	

Sample: MW-10 **Lab ID: 40242989007** Collected: 04/05/22 15:12 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**2.4**	ug/L	1.0	0.41	1		04/11/22 16:57	127-18-4	
Trichloroethene	**0.54J**	ug/L	1.0	0.32	1		04/11/22 16:57	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 16:57	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 16:57	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 16:57	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/11/22 16:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/11/22 16:57	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 16:57	2037-26-5	

Sample: MW-18 **Lab ID: 40242989008** Collected: 04/05/22 12:01 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/08/22 13:55	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/08/22 13:55	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/08/22 13:55	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**90.3J**	ug/L	100	29.6	1		04/07/22 16:35	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-18 **Lab ID: 40242989008** Collected: 04/05/22 12:01 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**93.0**	ug/L	1.0	0.41	1		04/11/22 17:17	127-18-4	
Trichloroethene	**1.3**	ug/L	1.0	0.32	1		04/11/22 17:17	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 17:17	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 17:17	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 17:17	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/11/22 17:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 17:17	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/11/22 17:17	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**22.7**	mg/L	2.0	0.44	1		04/11/22 06:46	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.4**	mg/L	0.50	0.14	1		04/11/22 06:02	7440-44-0	

Sample: MW-19 **Lab ID: 40242989009** Collected: 04/05/22 12:48 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**6.4**	ug/L	1.0	0.41	1		04/11/22 19:00	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 19:00	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 19:00	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 19:00	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 19:00	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 19:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/11/22 19:00	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 19:00	2037-26-5	

Sample: MW-20 **Lab ID: 40242989010** Collected: 04/05/22 13:45 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/08/22 14:02	74-84-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-20 **Lab ID: 40242989010** Collected: 04/05/22 13:45 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/08/22 14:02	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/08/22 14:02	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		04/07/22 16:37	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**106**	ug/L	2.5	1.0	2.5		04/11/22 19:41	127-18-4	
Trichloroethene	**1.4J**	ug/L	2.5	0.80	2.5		04/11/22 19:41	79-01-6	
Vinyl chloride	**<0.44**	ug/L	2.5	0.44	2.5		04/11/22 19:41	75-01-4	
cis-1,2-Dichloroethene	**<1.2**	ug/L	2.5	1.2	2.5		04/11/22 19:41	156-59-2	
trans-1,2-Dichloroethene	**<1.3**	ug/L	2.5	1.3	2.5		04/11/22 19:41	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2.5		04/11/22 19:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2.5		04/11/22 19:41	2199-69-1	
Toluene-d8 (S)	100	%	70-130		2.5		04/11/22 19:41	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**17.4**	mg/L	2.0	0.44	1		04/11/22 07:01	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.3J**	mg/L	1.5	0.42	3		04/11/22 14:24	7440-44-0	D3

Sample: MW-21 **Lab ID: 40242989011** Collected: 04/05/22 00:00 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**59.9**	ug/L	1.0	0.41	1		04/11/22 17:38	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 17:38	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 17:38	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 17:38	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 17:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/11/22 17:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/11/22 17:38	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 17:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Sample: MW-5 **Lab ID: 40242989012** Collected: 04/05/22 15:17 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**0.62J**	ug/L	1.0	0.41	1		04/12/22 08:10	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/12/22 08:10	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/12/22 08:10	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/12/22 08:10	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/12/22 08:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/12/22 08:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/12/22 08:10	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/12/22 08:10	2037-26-5	

Sample: DUP-1 **Lab ID: 40242989013** Collected: 04/05/22 00:00 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**57.1**	ug/L	1.0	0.41	1		04/11/22 18:19	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 18:19	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 18:19	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 18:19	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 18:19	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/11/22 18:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 18:19	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/11/22 18:19	2037-26-5	

Sample: TRIP **Lab ID: 40242989014** Collected: 04/05/22 00:00 Received: 04/06/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/11/22 13:01	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 13:01	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 13:01	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 13:01	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 13:01	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/11/22 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		04/11/22 13:01	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 13:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412607
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2376145 Matrix: Water
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/08/22 11:09	
Ethene	ug/L	<0.25	5.0	04/08/22 11:09	
Methane	ug/L	<0.58	2.8	04/08/22 11:09	

LABORATORY CONTROL SAMPLE & LCSD: 2376146 2376147

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	54.1	53.5	101	100	80-120	1	20	
Ethene	ug/L	50	50.4	49.8	101	100	80-120	1	20	
Methane	ug/L	28.6	29.4	29.2	103	102	80-121	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376283 2376284

Parameter	Units	40242840003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	54.6	55.7	102	104	80-122	2	20	
Ethene	ug/L	<0.25	50	50	51.4	52.4	103	105	80-122	2	20	
Methane	ug/L	<0.58	28.6	28.6	31.7	32.2	111	113	10-200	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412535 | Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D | Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375705 Matrix: Water
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	04/07/22 16:15	

LABORATORY CONTROL SAMPLE: 2375706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10100	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375707 2375708

Parameter	Units	40242989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<29.6	10000	10000	9960	9940	100	99	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412487 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989004, 40242989005, 40242989006, 40242989007, 40242989008, 40242989009, 40242989010, 40242989011, 40242989012, 40242989013, 40242989014

METHOD BLANK: 2375326 — Matrix: Water
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989004, 40242989005, 40242989006, 40242989007, 40242989008, 40242989009, 40242989010, 40242989011, 40242989012, 40242989013, 40242989014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/11/22 08:24	
Tetrachloroethene	ug/L	<0.41	1.0	04/11/22 08:24	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/11/22 08:24	
Trichloroethene	ug/L	<0.32	1.0	04/11/22 08:24	
Vinyl chloride	ug/L	<0.17	1.0	04/11/22 08:24	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/11/22 08:24	
4-Bromofluorobenzene (S)	%	101	70-130	04/11/22 08:24	
Toluene-d8 (S)	%	99	70-130	04/11/22 08:24	

LABORATORY CONTROL SAMPLE: 2375327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	54.5	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	70-130	
Trichloroethene	ug/L	50	56.6	113	70-130	
Vinyl chloride	ug/L	50	49.1	98	63-142	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376509 2376510

Parameter	Units	40242939002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	<0.00047 mg/L	50	50	53.2	52.9	106	106	70-130	1	20	
Tetrachloroethene	ug/L	<0.00041 mg/L	50	50	53.6	56.5	107	113	70-130	5	20	
trans-1,2-Dichloroethene	ug/L	<0.00053 mg/L	50	50	54.6	54.4	109	109	70-134	1	20	
Trichloroethene	ug/L	<0.00032 mg/L	50	50	54.9	56.9	110	114	70-130	3	20	
Vinyl chloride	ug/L	<0.00017 mg/L	50	50	46.8	48.2	94	96	61-143	3	20	
1,2-Dichlorobenzene-d4 (S)	%						98	101	70-130			
4-Bromofluorobenzene (S)	%						102	106	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376509 2376510

Parameter	Units	40242939002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						100	99	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412533 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375683 Matrix: Water
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/11/22 03:18	

LABORATORY CONTROL SAMPLE: 2375684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375685 2375686

Parameter	Units	40242620001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	101J	2000	2000	2140	2160	102	103	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412555 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

METHOD BLANK: 2375938 — Matrix: Water
Associated Lab Samples: 40242989001, 40242989002, 40242989003, 40242989008, 40242989010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	04/11/22 02:49	

LABORATORY CONTROL SAMPLE: 2375939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.9	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2375940 2375941

Parameter	Units	40242989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.0	6	6	6.5	6.6	92	93	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376887 2376888

Parameter	Units	40243015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.3	6	6	8.8	9.0	91	94	80-120	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40242989001	**MW-6**	EPA 8015B Modified	412607		
40242989002	**MW-7**	EPA 8015B Modified	412607		
40242989003	**MW-8**	EPA 8015B Modified	412607		
40242989008	**MW-18**	EPA 8015B Modified	412607		
40242989010	**MW-20**	EPA 8015B Modified	412607		
40242989001	**MW-6**	EPA 6010D	412535		
40242989002	**MW-7**	EPA 6010D	412535		
40242989003	**MW-8**	EPA 6010D	412535		
40242989008	**MW-18**	EPA 6010D	412535		
40242989010	**MW-20**	EPA 6010D	412535		
40242989001	**MW-6**	EPA 8260	412487		
40242989002	**MW-7**	EPA 8260	412487		
40242989003	**MW-8**	EPA 8260	412487		
40242989004	**MW-11**	EPA 8260	412487		
40242989005	**MW-9**	EPA 8260	412487		
40242989006	**PZ-2**	EPA 8260	412487		
40242989007	**MW-10**	EPA 8260	412487		
40242989008	**MW-18**	EPA 8260	412487		
40242989009	**MW-19**	EPA 8260	412487		
40242989010	**MW-20**	EPA 8260	412487		
40242989011	**MW-21**	EPA 8260	412487		
40242989012	**MW-5**	EPA 8260	412487		
40242989013	**DUP-1**	EPA 8260	412487		
40242989014	**TRIP**	EPA 8260	412487		
40242989001	**MW-6**	EPA 300.0	412533		
40242989002	**MW-7**	EPA 300.0	412533		
40242989003	**MW-8**	EPA 300.0	412533		
40242989008	**MW-18**	EPA 300.0	412533		
40242989010	**MW-20**	EPA 300.0	412533		
40242989001	**MW-6**	SM 5310C	412555		
40242989002	**MW-7**	SM 5310C	412555		
40242989003	**MW-8**	SM 5310C	412555		
40242989008	**MW-18**	SM 5310C	412555		
40242989010	**MW-20**	SM 5310C	412555		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40242989

ALL SHADED AREAS are for LAB USE ONLY

Company: G2A Geo Environmental	Billing Information: SAME
Address: 17475 W Sarah Lane	
Report To: Kevin.Hedinger@g2a.com	Email To: Kevin.Hedinger@g2a.com
Copy To: Sheryl.Stephenson@g2a.com	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: Ownamowoc Time Zone Collected: [ ]PT [ ]MT [X]CT [ ]ET
Phone: 262 202 1716 Email: Sheryl.Stephenson@g2a.com	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss. Fe

Container Preservative Type **: 3 3 U 1 2

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	CVOC	Methane / Ethane / Ethene	Sulfate	Metals (diss. Fe)	TOC						Lab Sample # / Comments
MW-6	GW	G	4/5/22	1045				9	X	X	X	X	X						001
MW-7	GW	G	4/5/22	1140				9	X	X	X	X	X						002
MW-8	GW	G	4/5/22	1225				9	X	X	X	X	X						003
MW-11	GW	G	4/5/22	1325				3	X										004
MW-9	GW	G	4/5/22	1405				3	X										005
PZ-2	GW	G	4/5/22	1435				3	X										006
MW-10	GW	G	4/5/22	1512				3	X										007
MW-18	GW	G	4/5/22	12:01				9	X	X	X	X	X						008
MW-19	GW	G	4/5/22	12:48				3	X										009
MW-20	GW	G	4/5/22	13:45				3	X	X	X	X	X						010

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2763735

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: 4.6 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 4.6 oC
Comments: see

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
G2A Geo Environmental	4/5/22 1700	CS Logistics	4/5/22 1700
CS logistics	4.6.22 0800	Josh Pollatt Pace	4.6.22 0800

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40242989

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: SAME
Address: 17975 W Sarah Lane, Brookfield	
Report To: Kevin.Hedinger@gza.com	Email To: Kevin.Hedinger@gza.com
Copy To: Sheryl.Stephenson@gza.com	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: Oconomowoc Time Zone Collected: [ ] PT [ ] MT [x] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [x] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [x] Yes [ ] No Analysis: Diss Fe

Container Preservative Type **: 3 3 4 1 2

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOC	Methane | Ethane | Ethene	Sulfate	Methods (diss. Fe)	TOC	Lab Profile/Line
MW-21	GW	G	4/5/22					3	X					011
MW-5	GW	G	4/5/22	15:17				3	X					012
DUP-1	GW	G	4/5/22					3	X					013
TRIP	~~GW~~	G	4/5/22					1	X					014
	~~GW~~	G												
	~~GW~~	G												
	~~GW~~	G												
	~~GW~~	G												
	~~GW~~	G												
	~~GW~~	G												

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2763736

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: 4.6 oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments: ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	4/5/22 1700	C.S Logistics	4/5/22 1700
CS logistics	4.6.22 0800	Pace	4.6.22 0800

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: GZA Project # 402-42989

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: [illegible] Date/ Time:

Lab Lot# of pH paper: 100312 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001				1						1		1					6													X		2.5 / 5 / 10
002				1						1		1					6													X		**2.5 / 5 / 10**
003				1						1		1					6													X		2.5 / 5 / 10
004																	3															**2.5 / 5 / 10**
005																	3															2.5 / 5 / 10
006																	3															**2.5 / 5 / 10**
007																	3															2.5 / 5 / 10
008				1						1		1					6													X		**2.5 / 5 / 10**
009																	3															2.5 / 5 / 10
010				1						1		1					6													X		**2.5 / 5 / 10**
011																	3															2.5 / 5 / 10
012																	3															**2.5 / 5 / 10**
013																	3															2.5 / 5 / 10
014																	1															**2.5 / 5 / 10**
015																																2.5 / 5 / 10
016																																**2.5 / 5 / 10**
017																																2.5 / 5 / 10
018																																**2.5 / 5 / 10**
019																																2.5 / 5 / 10
020																																**2.5 / 5 / 10**

4-6-22

Exceptions to preservation check: (VOA) Coliform, (TOC) TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40242989

40242989

Client Name: GZA

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 116 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2.1

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 4.6.22 /Initials: AP

Labeled By Initials: AL

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Pg # 4.6.22 AP
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: 4/6/22 AL	☑Yes ☐No ☐N/A	12. 011; 1114:33 4/6/22 AL
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 477		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 14, 2022

Kevin Hedinger
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40243106001	**MW-3**	Water	04/06/22 08:52	04/07/22 08:00
40243106002	**MW-15**	Water	04/06/22 09:29	04/07/22 08:00
40243106003	**MW-1**	Water	04/06/22 10:16	04/07/22 08:00
40243106004	**PZ-1**	Water	04/06/22 10:55	04/07/22 08:00
40243106005	**MW-4**	Water	04/06/22 12:04	04/07/22 08:00
40243106006	**MW-16**	Water	04/06/22 12:51	04/07/22 08:00
40243106007	**MW-14**	Water	04/06/22 08:55	04/07/22 08:00
40243106008	**MW-2**	Water	04/06/22 09:40	04/07/22 08:00
40243106009	**MW-13**	Water	04/06/22 10:30	04/07/22 08:00
40243106010	**PZ-3**	Water	04/06/22 11:10	04/07/22 08:00
40243106011	**MW-17**	Water	04/06/22 11:55	04/07/22 08:00
40243106012	**MW-12**	Water	04/06/22 12:40	04/07/22 08:00
40243106013	**DUP-2**	Water	04/06/22 00:00	04/07/22 08:00
40243106014	**TRIP**	Water	04/06/22 00:00	04/07/22 08:00

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SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40243106001	**MW-3**	EPA 8260	EIB	8	PASI-G
40243106002	**MW-15**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106003	**MW-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106004	**PZ-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106005	**MW-4**	EPA 8260	EIB	8	PASI-G
40243106006	**MW-16**	EPA 8260	EIB	8	PASI-G
40243106007	**MW-14**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106008	**MW-2**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106009	**MW-13**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106010	**PZ-3**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	TJJ	1	PASI-G
40243106011	**MW-17**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106012	**MW-12**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40243106013	**DUP-2**	EPA 8260	EIB	8	PASI-G
40243106014	**TRIP**	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40243106002	**MW-15**					
EPA 8260	Tetrachloroethene	3.0	ug/L	1.0	04/08/22 22:17	
EPA 300.0	Sulfate	24.8	mg/L	10.0	04/12/22 01:55	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/14/22 02:26	
40243106003	**MW-1**					
EPA 8260	Tetrachloroethene	48.3	ug/L	1.0	04/08/22 22:38	
EPA 8260	Trichloroethene	3.2	ug/L	1.0	04/08/22 22:38	
EPA 8260	cis-1,2-Dichloroethene	8.9	ug/L	1.0	04/08/22 22:38	
EPA 8260	trans-1,2-Dichloroethene	0.92J	ug/L	1.0	04/08/22 22:38	
EPA 300.0	Sulfate	15.1	mg/L	10.0	04/12/22 02:15	
SM 5310C	Total Organic Carbon	2.1	mg/L	0.50	04/14/22 03:14	
40243106004	**PZ-1**					
EPA 300.0	Sulfate	27.9	mg/L	10.0	04/12/22 02:35	
SM 5310C	Total Organic Carbon	0.98	mg/L	0.50	04/14/22 03:30	
40243106005	**MW-4**					
EPA 8260	Tetrachloroethene	1.8	ug/L	1.0	04/08/22 23:19	
40243106006	**MW-16**					
EPA 8260	Tetrachloroethene	6.6	ug/L	1.0	04/08/22 23:39	
40243106007	**MW-14**					
EPA 8260	Tetrachloroethene	15.8	ug/L	1.0	04/09/22 00:00	
EPA 300.0	Sulfate	103	mg/L	10.0	04/12/22 02:56	
SM 5310C	Total Organic Carbon	1.2	mg/L	0.50	04/14/22 03:47	
40243106008	**MW-2**					
EPA 8260	Tetrachloroethene	10.7	ug/L	1.0	04/09/22 00:20	
EPA 300.0	Sulfate	22.7	mg/L	10.0	04/12/22 03:15	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	04/14/22 04:03	
40243106009	**MW-13**					
EPA 8260	Tetrachloroethene	58.0	ug/L	1.0	04/09/22 00:41	
EPA 8260	Trichloroethene	0.71J	ug/L	1.0	04/09/22 00:41	
EPA 300.0	Sulfate	34.0	mg/L	10.0	04/12/22 03:36	
SM 5310C	Total Organic Carbon	1.5	mg/L	0.50	04/14/22 04:19	
40243106010	**PZ-3**					
EPA 8260	Tetrachloroethene	1.6	ug/L	1.0	04/11/22 09:05	
EPA 300.0	Sulfate	5.0J	mg/L	10.0	04/12/22 03:56	D3,M0
SM 5310C	Total Organic Carbon	5.3	mg/L	0.50	04/14/22 04:55	
40243106011	**MW-17**					
EPA 8260	Tetrachloroethene	57.7	ug/L	1.0	04/09/22 01:21	
EPA 8260	Trichloroethene	0.95J	ug/L	1.0	04/09/22 01:21	
EPA 300.0	Sulfate	22.3	mg/L	2.0	04/11/22 18:43	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	04/14/22 05:11	
40243106012	**MW-12**					
EPA 8260	Tetrachloroethene	36.2	ug/L	1.0	04/09/22 01:42	

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SUMMARY OF DETECTION

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40243106012	**MW-12**					
EPA 8260	Trichloroethene	0.58J	ug/L	1.0	04/09/22 01:42	
EPA 300.0	Sulfate	22.2	mg/L	2.0	04/11/22 19:26	
SM 5310C	Total Organic Carbon	1.0	mg/L	0.50	04/14/22 05:27	
40243106013	**DUP-2**					
EPA 8260	Tetrachloroethene	6.3	ug/L	1.0	04/09/22 02:02	

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-3 **Lab ID: 40243106001** Collected: 04/06/22 08:52 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/08/22 21:57	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/08/22 21:57	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 21:57	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/08/22 21:57	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/08/22 21:57	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 21:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/08/22 21:57	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/08/22 21:57	2037-26-5	

Sample: MW-15 **Lab ID: 40243106002** Collected: 04/06/22 09:29 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 11:40	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 11:40	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 11:40	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:12	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**3.0**	ug/L	1.0	0.41	1		04/08/22 22:17	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/08/22 22:17	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 22:17	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/08/22 22:17	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/08/22 22:17	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 22:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 22:17	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/08/22 22:17	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**24.8**	mg/L	10.0	2.2	5		04/12/22 01:55	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.1**	mg/L	0.50	0.14	1		04/14/22 02:26	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-1 **Lab ID: 40243106003** Collected: 04/06/22 10:16 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:05	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:05	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:05	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:22	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**48.3**	ug/L	1.0	0.41	1		04/08/22 22:38	127-18-4	
Trichloroethene	**3.2**	ug/L	1.0	0.32	1		04/08/22 22:38	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 22:38	75-01-4	
cis-1,2-Dichloroethene	**8.9**	ug/L	1.0	0.47	1		04/08/22 22:38	156-59-2	
trans-1,2-Dichloroethene	**0.92J**	ug/L	1.0	0.53	1		04/08/22 22:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/08/22 22:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/08/22 22:38	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/08/22 22:38	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**15.1**	mg/L	10.0	2.2	5		04/12/22 02:15	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.1**	mg/L	0.50	0.14	1		04/14/22 03:14	7440-44-0	

Sample: PZ-1 **Lab ID: 40243106004** Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:11	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:11	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:11	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:24	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: PZ-1 **Lab ID: 40243106004** Collected: 04/06/22 10:55 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/11/22 08:44	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 08:44	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 08:44	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 08:44	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 08:44	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/11/22 08:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/11/22 08:44	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 08:44	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**27.9**	mg/L	10.0	2.2	5		04/12/22 02:35	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**0.98**	mg/L	0.50	0.14	1		04/14/22 03:30	7440-44-0	

Sample: MW-4 **Lab ID: 40243106005** Collected: 04/06/22 12:04 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**1.8**	ug/L	1.0	0.41	1		04/08/22 23:19	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/08/22 23:19	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 23:19	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/08/22 23:19	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/08/22 23:19	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/08/22 23:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 23:19	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/08/22 23:19	2037-26-5	

Sample: MW-16 **Lab ID: 40243106006** Collected: 04/06/22 12:51 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**6.6**	ug/L	1.0	0.41	1		04/08/22 23:39	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-16 **Lab ID: 40243106006** Collected: 04/06/22 12:51 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/08/22 23:39	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 23:39	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/08/22 23:39	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/08/22 23:39	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/08/22 23:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/08/22 23:39	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		04/08/22 23:39	2037-26-5	

Sample: MW-14 **Lab ID: 40243106007** Collected: 04/06/22 08:55 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:18	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:18	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:18	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:27	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**15.8**	ug/L	1.0	0.41	1		04/09/22 00:00	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/09/22 00:00	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 00:00	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 00:00	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 00:00	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/22 00:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/09/22 00:00	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/09/22 00:00	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**103**	mg/L	10.0	2.2	5		04/12/22 02:56	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.2**	mg/L	0.50	0.14	1		04/14/22 03:47	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-2 **Lab ID: 40243106008** Collected: 04/06/22 09:40 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:25	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:25	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:25	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:29	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**10.7**	ug/L	1.0	0.41	1		04/09/22 00:20	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/09/22 00:20	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 00:20	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 00:20	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 00:20	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/09/22 00:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/09/22 00:20	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/09/22 00:20	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**22.7**	mg/L	10.0	2.2	5		04/12/22 03:15	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.1**	mg/L	0.50	0.14	1		04/14/22 04:03	7440-44-0	

Sample: MW-13 **Lab ID: 40243106009** Collected: 04/06/22 10:30 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:32	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:32	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:32	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:32	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-13 **Lab ID: 40243106009** Collected: 04/06/22 10:30 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**58.0**	ug/L	1.0	0.41	1		04/09/22 00:41	127-18-4	
Trichloroethene	**0.71J**	ug/L	1.0	0.32	1		04/09/22 00:41	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 00:41	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 00:41	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 00:41	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/09/22 00:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/09/22 00:41	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/09/22 00:41	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**34.0**	mg/L	10.0	2.2	5		04/12/22 03:36	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.5**	mg/L	0.50	0.14	1		04/14/22 04:19	7440-44-0	

Sample: PZ-3 **Lab ID: 40243106010** Collected: 04/06/22 11:10 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:39	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:39	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:39	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:34	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**1.6**	ug/L	1.0	0.41	1		04/11/22 09:05	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/11/22 09:05	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/11/22 09:05	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/11/22 09:05	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/11/22 09:05	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/11/22 09:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/11/22 09:05	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/11/22 09:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: PZ-3 **Lab ID: 40243106010** Collected: 04/06/22 11:10 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**5.0J**	mg/L	10.0	2.2	5		04/12/22 03:56	14808-79-8	D3,M0
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**5.3**	mg/L	0.50	0.14	1		04/14/22 04:55	7440-44-0	

Sample: MW-17 **Lab ID: 40243106011** Collected: 04/06/22 11:55 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:46	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:46	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:46	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:37	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**57.7**	ug/L	1.0	0.41	1		04/09/22 01:21	127-18-4	
Trichloroethene	**0.95J**	ug/L	1.0	0.32	1		04/09/22 01:21	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 01:21	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 01:21	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 01:21	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/09/22 01:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/09/22 01:21	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		04/09/22 01:21	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**22.3**	mg/L	2.0	0.44	1		04/11/22 18:43	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.3**	mg/L	0.50	0.14	1		04/14/22 05:11	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: MW-12 **Lab ID: 40243106012** Collected: 04/06/22 12:40 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/11/22 12:53	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/11/22 12:53	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/11/22 12:53	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	04/11/22 06:17	04/12/22 18:39	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**36.2**	ug/L	1.0	0.41	1		04/09/22 01:42	127-18-4	
Trichloroethene	**0.58J**	ug/L	1.0	0.32	1		04/09/22 01:42	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 01:42	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 01:42	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 01:42	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/09/22 01:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/09/22 01:42	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/09/22 01:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**22.2**	mg/L	2.0	0.44	1		04/11/22 19:26	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.0**	mg/L	0.50	0.14	1		04/14/22 05:27	7440-44-0	

Sample: DUP-2 **Lab ID: 40243106013** Collected: 04/06/22 00:00 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**6.3**	ug/L	1.0	0.41	1		04/09/22 02:02	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/09/22 02:02	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/09/22 02:02	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/09/22 02:02	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/09/22 02:02	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/22 02:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/09/22 02:02	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/09/22 02:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Sample: TRIP **Lab ID: 40243106014** Collected: 04/06/22 00:00 Received: 04/07/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		04/08/22 20:15	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		04/08/22 20:15	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/08/22 20:15	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		04/08/22 20:15	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		04/08/22 20:15	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/08/22 20:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/08/22 20:15	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		04/08/22 20:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412708
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

METHOD BLANK: 2376971 Matrix: Water
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/11/22 09:59	
Ethene	ug/L	<0.25	5.0	04/11/22 09:59	
Methane	ug/L	<0.58	2.8	04/11/22 09:59	

LABORATORY CONTROL SAMPLE & LCSD: 2376972 2376973

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	51.8	52.0	97	97	74-120	0	20	
Ethene	ug/L	50	47.3	47.6	95	95	71-122	0	20	
Methane	ug/L	28.6	27.9	28.1	98	99	73-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376974 2376975

Parameter	Units	40242847007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<7.9	1070	1070	1030	1070	96	100	70-120	3	20	
Ethene	ug/L	<5.0	1000	1000	968	1000	97	100	68-122	4	20	
Methane	ug/L	2800	571	571	2820	3890	4	191	10-200	32	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412682 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

METHOD BLANK: 2376897 Matrix: Water
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<56.7	100	04/12/22 17:58	

LABORATORY CONTROL SAMPLE: 2376898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10700	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376899 2376900

Parameter	Units	40242996011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	1170	10000	10000	12000	12000	109	108	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412611
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106001, 40243106002, 40243106003, 40243106004, 40243106005, 40243106006, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012, 40243106013, 40243106014

METHOD BLANK: 2376212 Matrix: Water
Associated Lab Samples: 40243106001, 40243106002, 40243106003, 40243106004, 40243106005, 40243106006, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012, 40243106013, 40243106014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/08/22 17:11	
Tetrachloroethene	ug/L	<0.41	1.0	04/08/22 17:11	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/08/22 17:11	
Trichloroethene	ug/L	<0.32	1.0	04/08/22 17:11	
Vinyl chloride	ug/L	<0.17	1.0	04/08/22 17:11	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/08/22 17:11	
4-Bromofluorobenzene (S)	%	97	70-130	04/08/22 17:11	
Toluene-d8 (S)	%	99	70-130	04/08/22 17:11	

LABORATORY CONTROL SAMPLE: 2376213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	54.6	109	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	70-130	
Trichloroethene	ug/L	50	55.3	111	70-130	
Vinyl chloride	ug/L	50	46.6	93	63-142	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376214 2376215

Parameter	Units	40243104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	3.2	50	50	56.3	56.6	106	107	70-130	0	20	
Tetrachloroethene	ug/L	0.45J	50	50	56.2	56.6	112	112	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	54.6	54.8	109	110	70-134	0	20	
Trichloroethene	ug/L	2.8	50	50	59.8	59.5	114	114	70-130	0	20	
Vinyl chloride	ug/L	<0.17	50	50	47.4	47.3	95	95	61-143	0	20	
1,2-Dichlorobenzene-d4 (S)	%						99	98	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412621 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010

METHOD BLANK: 2376286 — Matrix: Water
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/11/22 16:12	

LABORATORY CONTROL SAMPLE: 2376287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376288 2376289

Parameter	Units	35707085011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1350	10000	10000	13000	12500	116	112	90-110	4	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376290 2376291

Parameter	Units	40243106010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	5.0J	100	100	116	115	111	110	90-110	1	15	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412664
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106011, 40243106012

METHOD BLANK: 2376839 Matrix: Water
Associated Lab Samples: 40243106011, 40243106012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/11/22 18:14	

LABORATORY CONTROL SAMPLE: 2376840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376841 2376842

Parameter	Units	40243106011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	22.3	20	20	44.0	44.1	108	109	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376843 2376844

Parameter	Units	35707486008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	27.6	100	100	132	133	104	105	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412974 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

METHOD BLANK: 2377893 — Matrix: Water
Associated Lab Samples: 40243106002, 40243106003, 40243106004, 40243106007, 40243106008, 40243106009, 40243106010, 40243106011, 40243106012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	04/14/22 01:55	

LABORATORY CONTROL SAMPLE: 2377894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.8	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2377895 2377896

Parameter	Units	40243106002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	6	6	6.9	6.9	97	97	80-120	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243106002	MW-15	EPA 8015B Modified	412708		
40243106003	MW-1	EPA 8015B Modified	412708		
40243106004	PZ-1	EPA 8015B Modified	412708		
40243106007	MW-14	EPA 8015B Modified	412708		
40243106008	MW-2	EPA 8015B Modified	412708		
40243106009	MW-13	EPA 8015B Modified	412708		
40243106010	PZ-3	EPA 8015B Modified	412708		
40243106011	MW-17	EPA 8015B Modified	412708		
40243106012	MW-12	EPA 8015B Modified	412708		
40243106002	MW-15	EPA 3010A	412682	EPA 6010D	412892
40243106003	MW-1	EPA 3010A	412682	EPA 6010D	412892
40243106004	PZ-1	EPA 3010A	412682	EPA 6010D	412892
40243106007	MW-14	EPA 3010A	412682	EPA 6010D	412892
40243106008	MW-2	EPA 3010A	412682	EPA 6010D	412892
40243106009	MW-13	EPA 3010A	412682	EPA 6010D	412892
40243106010	PZ-3	EPA 3010A	412682	EPA 6010D	412892
40243106011	MW-17	EPA 3010A	412682	EPA 6010D	412892
40243106012	MW-12	EPA 3010A	412682	EPA 6010D	412892
40243106001	MW-3	EPA 8260	412611		
40243106002	MW-15	EPA 8260	412611		
40243106003	MW-1	EPA 8260	412611		
40243106004	PZ-1	EPA 8260	412611		
40243106005	MW-4	EPA 8260	412611		
40243106006	MW-16	EPA 8260	412611		
40243106007	MW-14	EPA 8260	412611		
40243106008	MW-2	EPA 8260	412611		
40243106009	MW-13	EPA 8260	412611		
40243106010	PZ-3	EPA 8260	412611		
40243106011	MW-17	EPA 8260	412611		
40243106012	MW-12	EPA 8260	412611		
40243106013	DUP-2	EPA 8260	412611		
40243106014	TRIP	EPA 8260	412611		
40243106002	MW-15	EPA 300.0	412621		
40243106003	MW-1	EPA 300.0	412621		
40243106004	PZ-1	EPA 300.0	412621		
40243106007	MW-14	EPA 300.0	412621		
40243106008	MW-2	EPA 300.0	412621		
40243106009	MW-13	EPA 300.0	412621		
40243106010	PZ-3	EPA 300.0	412621		
40243106011	MW-17	EPA 300.0	412664		
40243106012	MW-12	EPA 300.0	412664		
40243106002	MW-15	SM 5310C	412974		
40243106003	MW-1	SM 5310C	412974		
40243106004	PZ-1	SM 5310C	412974		
40243106007	MW-14	SM 5310C	412974		
40243106008	MW-2	SM 5310C	412974		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40243106009	**MW-13**	SM 5310C	412974		
40243106010	**PZ-3**	SM 5310C	412974		
40243106011	**MW-17**	SM 5310C	412974		
40243106012	**MW-12**	SM 5310C	412974		

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

L1024306

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CHAIN OF COUSTODY

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Company Name:	GZA
Branch/Location:	Brookfield
Project Contact:	Sheryl Stephenson
Phone:	262 202 1716
Project Number:	20.0156045.00
Project Name:	LRI Baseline
Project State:	Wisconsin
Sampled By (Print):	Sheryl Stephenson
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	SAME
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

				FILTERED? (YES/NO) Y/N	N	N	N	Y	N					
				PRESERVATION (CODE)* Pick Letter	B	B	C	D	A					
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	CVOC	Methane/Ethane/Ethene	Sulfate	Diss. Fe	TOC			CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-3	4/6/22	0852	GW	X									
002	MW-15	4/6/22	0929	GW	X	X	X	X	X					
003	MW-1	4/6/22	1016	GW	X	X	X	X	X					
004	PZ-1	4/6/22	1055	GW	X	X	X	X	X					
005	MW-4	4/6/22	12.04	GW	X									
006	MW-16	4/6/22	1251	GW	X									
007	MW-14	4/6/22	0855	GW	X	X	X	X	X					
008	MW-2	4/6/22	0940	GW	X	X	X	X	X					
009	MW-13	4/6/22	1030	GW	X	X	X	X	X					
010	PZ-3	4/6/22	1110	GW	X	X	X	X	X					
011	MW-17	4/6/22	1155	GW	X	X	X	X	X					
012	MW-12	4/6/22	1240	GW	X	X	X	X	X					
013	DUP-1 014 TRIP	4/6/22	—	GW	X									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/6/22 1700	~~4/6/22~~ CS Logistics	4/6/22 1700
CS logistics	4/7/22 0800	[signature]	4/7/22 0800

PACE Project No. L1024306

Receipt Temp = 2.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / (Not Present) Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

Sample Preservation Receipt Form

Client Name: GZA Project # WO#:24351076

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: JP Date/ Time:

Lab Lot# of pH paper: 10D3112 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3	3														2.5 / 5 / 10
002				1						1		1					6	6										X			X		2.5 / 5 / 10
003				1						1		1					6	6										X			X		2.5 / 5 / 10
004				1						1		1					6	6										X			X		2.5 / 5 / 10
005																	3	3	TP 4/17/22														2.5 / 5 / 10
006																	3	3															2.5 / 5 / 10
007				1						1		1					6	6										X				X		2.5 / 5 / 10
008				1						1		1					6	6										X				X		2.5 / 5 / 10
009				1						1		1					6	6										X	TP 4/17/22			X		2.5 / 5 / 10
010				1						1		1					6	6										X				X		2.5 / 5 / 10
011				1						1		1					6	6										X				X		2.5 / 5 / 10
012				1						1		1			3		3	6	TP 4/17/22									X				X		2.5 / 5 / 10
013															TP 4/17/22		X	3																2.5 / 5 / 10
014																1																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																							TP 4/17/22											2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: (VOA), (Coliform), (TOC) TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40243106

40243106

Client Name: GZA

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 113 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2.1

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 4/7/22 Initials: TP

Labeled By Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. PM# TP 4/7/22
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10. TP 4/7/22
Filtered volume received for Dissolved tests	☑Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. ~~GW~~ 013 Dup-2 on bottles TP 4/7/22
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	TP 4/7/22
Pace Trip Blank Lot # (if purchased): 477		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

ATTACHMENT 3

Post-Injection Laboratory Analytical Reports and Chain-of-Custody Documentation

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 24, 2022

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.01
Pace Project No.: 40246766

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.01
Pace Project No.: 40246766

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.01
Pace Project No.: 40246766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246766001	**MW-6**	Water	06/16/22 09:19	06/17/22 07:50
40246766002	**MW-7**	Water	06/16/22 10:00	06/17/22 07:50
40246766003	**MW-1**	Water	06/16/22 10:40	06/17/22 07:50
40246766004	**MW-13**	Water	06/16/22 11:49	06/17/22 07:50
40246766005	**MW-17**	Water	06/16/22 12:40	06/17/22 07:50
40246766006	**TRIP**	Water	06/16/22 00:00	06/17/22 07:50

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 20.0156045.01
Pace Project No.: 40246766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246766001	**MW-6**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766002	**MW-7**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766003	**MW-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766004	**MW-13**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766005	**MW-17**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	JAV	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40246766006	**TRIP**	EPA 8260	JAV	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.01
Pace Project No.: 40246766

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40246766001	**MW-6**					
EPA 8015B Modified	Ethane	1.6J	ug/L	5.6	06/21/22 11:35	
EPA 8015B Modified	Ethene	3.1J	ug/L	5.0	06/21/22 11:35	
EPA 8015B Modified	Methane	2.2J	ug/L	2.8	06/21/22 11:35	
EPA 6010D	Iron, Dissolved	1760	ug/L	100	06/20/22 17:29	
EPA 8260	Tetrachloroethene	41.4	ug/L	1.0	06/22/22 16:01	
EPA 8260	Trichloroethene	2.3	ug/L	1.0	06/22/22 16:01	
EPA 8260	cis-1,2-Dichloroethene	5.5	ug/L	1.0	06/22/22 16:01	
EPA 300.0	Sulfate	17.0	mg/L	2.0	06/22/22 01:24	
SM 5310C	Total Organic Carbon	236	mg/L	15.0	06/23/22 12:18	
40246766002	**MW-7**					
EPA 6010D	Iron, Dissolved	195	ug/L	100	06/20/22 17:32	
EPA 8260	Tetrachloroethene	48.8	ug/L	1.0	06/21/22 14:37	
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/21/22 14:37	
EPA 8260	cis-1,2-Dichloroethene	1.4	ug/L	1.0	06/21/22 14:37	
EPA 300.0	Sulfate	22.3	mg/L	2.0	06/22/22 01:39	
SM 5310C	Total Organic Carbon	33.5	mg/L	3.0	06/23/22 12:56	
40246766003	**MW-1**					
EPA 6010D	Iron, Dissolved	2720	ug/L	100	06/20/22 17:34	
EPA 8260	Tetrachloroethene	28.3	ug/L	1.0	06/21/22 14:56	
EPA 8260	Trichloroethene	0.99J	ug/L	1.0	06/21/22 14:56	
EPA 8260	cis-1,2-Dichloroethene	1.6	ug/L	1.0	06/21/22 14:56	
EPA 300.0	Sulfate	17.8	mg/L	2.0	06/22/22 01:54	
SM 5310C	Total Organic Carbon	24.2	mg/L	3.0	06/23/22 13:12	
40246766004	**MW-13**					
EPA 8260	Tetrachloroethene	42.3	ug/L	1.0	06/21/22 15:16	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	06/21/22 15:16	
EPA 300.0	Sulfate	22.0	mg/L	2.0	06/22/22 02:08	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	06/23/22 13:29	
40246766005	**MW-17**					
EPA 8260	Tetrachloroethene	58.7	ug/L	1.0	06/20/22 14:04	
EPA 8260	Trichloroethene	0.74J	ug/L	1.0	06/20/22 14:04	
EPA 300.0	Sulfate	23.7	mg/L	2.0	06/22/22 02:23	
SM 5310C	Total Organic Carbon	2.6	mg/L	0.50	06/23/22 13:45	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.01
Pace Project No.: 40246766

Sample: MW-6 **Lab ID: 40246766001** Collected: 06/16/22 09:19 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**1.6J**	ug/L	5.6	0.39	1		06/21/22 11:35	74-84-0	
Ethene	**3.1J**	ug/L	5.0	0.25	1		06/21/22 11:35	74-85-1	
Methane	**2.2J**	ug/L	2.8	0.58	1		06/21/22 11:35	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**1760**	ug/L	100	29.6	1		06/20/22 17:29	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**41.4**	ug/L	1.0	0.41	1		06/22/22 16:01	127-18-4	
Trichloroethene	**2.3**	ug/L	1.0	0.32	1		06/22/22 16:01	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/22/22 16:01	75-01-4	
cis-1,2-Dichloroethene	**5.5**	ug/L	1.0	0.47	1		06/22/22 16:01	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/22/22 16:01	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/22 16:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		06/22/22 16:01	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		06/22/22 16:01	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**17.0**	mg/L	2.0	0.44	1		06/22/22 01:24	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**236**	mg/L	15.0	4.2	30		06/23/22 12:18	7440-44-0	

Sample: MW-7 **Lab ID: 40246766002** Collected: 06/16/22 10:00 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		06/21/22 11:42	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		06/21/22 11:42	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		06/21/22 11:42	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**195**	ug/L	100	29.6	1		06/20/22 17:32	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.01
Pace Project No.: 40246766

Sample: MW-7 **Lab ID: 40246766002** Collected: 06/16/22 10:00 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**48.8**	ug/L	1.0	0.41	1		06/21/22 14:37	127-18-4	
Trichloroethene	**1.5**	ug/L	1.0	0.32	1		06/21/22 14:37	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/21/22 14:37	75-01-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.47	1		06/21/22 14:37	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/21/22 14:37	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/21/22 14:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 14:37	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 14:37	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**22.3**	mg/L	2.0	0.44	1		06/22/22 01:39	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**33.5**	mg/L	3.0	0.83	6		06/23/22 12:56	7440-44-0	

Sample: MW-1 **Lab ID: 40246766003** Collected: 06/16/22 10:40 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		06/21/22 12:19	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		06/21/22 12:19	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		06/21/22 12:19	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**2720**	ug/L	100	29.6	1		06/20/22 17:34	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**28.3**	ug/L	1.0	0.41	1		06/21/22 14:56	127-18-4	
Trichloroethene	**0.99J**	ug/L	1.0	0.32	1		06/21/22 14:56	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/21/22 14:56	75-01-4	
cis-1,2-Dichloroethene	**1.6**	ug/L	1.0	0.47	1		06/21/22 14:56	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/21/22 14:56	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/21/22 14:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		06/21/22 14:56	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		06/21/22 14:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.01
Pace Project No.: 40246766

Sample: MW-1 **Lab ID: 40246766003** Collected: 06/16/22 10:40 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**17.8**	mg/L	2.0	0.44	1		06/22/22 01:54	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**24.2**	mg/L	3.0	0.83	6		06/23/22 13:12	7440-44-0	

Sample: MW-13 **Lab ID: 40246766004** Collected: 06/16/22 11:49 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		06/21/22 12:26	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		06/21/22 12:26	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		06/21/22 12:26	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		06/20/22 17:37	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**42.3**	ug/L	1.0	0.41	1		06/21/22 15:16	127-18-4	
Trichloroethene	**0.54J**	ug/L	1.0	0.32	1		06/21/22 15:16	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/21/22 15:16	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		06/21/22 15:16	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/21/22 15:16	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/21/22 15:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 15:16	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 15:16	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**22.0**	mg/L	2.0	0.44	1		06/22/22 02:08	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.3**	mg/L	0.50	0.14	1		06/23/22 13:29	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.01
Pace Project No.: 40246766

Sample: MW-17 **Lab ID: 40246766005** Collected: 06/16/22 12:40 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		06/21/22 12:33	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		06/21/22 12:33	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		06/21/22 12:33	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		06/20/22 17:39	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**58.7**	ug/L	1.0	0.41	1		06/20/22 14:04	127-18-4	
Trichloroethene	**0.74J**	ug/L	1.0	0.32	1		06/20/22 14:04	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/20/22 14:04	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		06/20/22 14:04	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/20/22 14:04	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/22 14:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		06/20/22 14:04	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/20/22 14:04	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**23.7**	mg/L	2.0	0.44	1		06/22/22 02:23	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.6**	mg/L	0.50	0.14	1		06/23/22 13:45	7440-44-0	

Sample: TRIP **Lab ID: 40246766006** Collected: 06/16/22 00:00 Received: 06/17/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		06/20/22 12:21	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		06/20/22 12:21	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		06/20/22 12:21	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		06/20/22 12:21	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		06/20/22 12:21	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/22 12:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/20/22 12:21	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/20/22 12:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418891 | Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified | Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2412260 Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	06/21/22 09:57	
Ethene	ug/L	<0.25	5.0	06/21/22 09:57	
Methane	ug/L	<0.58	2.8	06/21/22 09:57	

LABORATORY CONTROL SAMPLE & LCSD: 2412261 2412262

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	51.8	53.6	97	100	74-120	3	20	
Ethene	ug/L	50	48.3	50.1	97	100	71-122	4	20	
Methane	ug/L	28.6	28.6	30.0	100	105	73-120	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412510 2412511

Parameter	Units	40246544018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.2	54.0	92	101	70-120	9	20	
Ethene	ug/L	<0.25	50	50	45.6	50.0	91	100	68-122	9	20	
Methane	ug/L	<0.58	28.6	28.6	26.8	29.6	94	104	10-200	10	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418837
QC Batch Method: EPA 6010D
Analysis Method: EPA 6010D
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2411976 Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	06/20/22 16:36	

LABORATORY CONTROL SAMPLE: 2411977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411978 2411979

Parameter	Units	40246456005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	92600	10000	10000	102000	103000	95	100	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418738
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004

METHOD BLANK: 2411724 Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/21/22 07:58	
Tetrachloroethene	ug/L	<0.41	1.0	06/21/22 07:58	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/21/22 07:58	
Trichloroethene	ug/L	<0.32	1.0	06/21/22 07:58	
Vinyl chloride	ug/L	<0.17	1.0	06/21/22 07:58	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	06/21/22 07:58	
4-Bromofluorobenzene (S)	%	99	70-130	06/21/22 07:58	
Toluene-d8 (S)	%	101	70-130	06/21/22 07:58	

LABORATORY CONTROL SAMPLE: 2411725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Vinyl chloride	ug/L	50	36.1	72	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412553 2412554

Parameter	Units	40246723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.9	50.3	96	101	70-130	5	20	
Tetrachloroethene	ug/L	<0.41	50	50	52.6	54.8	105	110	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.9	55.4	106	111	70-130	5	20	
Trichloroethene	ug/L	<0.32	50	50	50.2	52.8	100	106	70-130	5	20	
Vinyl chloride	ug/L	<0.17	50	50	34.6	36.0	69	72	60-137	4	20	
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418748
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766005, 40246766006

METHOD BLANK: 2411766 Matrix: Water
Associated Lab Samples: 40246766005, 40246766006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/20/22 09:16	
Tetrachloroethene	ug/L	<0.41	1.0	06/20/22 09:16	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/20/22 09:16	
Trichloroethene	ug/L	<0.32	1.0	06/20/22 09:16	
Vinyl chloride	ug/L	<0.17	1.0	06/20/22 09:16	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	06/20/22 09:16	
4-Bromofluorobenzene (S)	%	100	70-130	06/20/22 09:16	
Toluene-d8 (S)	%	98	70-130	06/20/22 09:16	

LABORATORY CONTROL SAMPLE: 2411767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	70-130	
Trichloroethene	ug/L	50	55.7	111	70-130	
Vinyl chloride	ug/L	50	38.7	77	63-134	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418974 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2412568 — Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	0.50J	2.0	06/21/22 23:10	

LABORATORY CONTROL SAMPLE: 2412569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412570 2412571

Parameter	Units	40246773001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	16.7	20	20	38.1	38.0	107	107	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 419171 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

METHOD BLANK: 2413843 Matrix: Water
Associated Lab Samples: 40246766001, 40246766002, 40246766003, 40246766004, 40246766005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	06/23/22 09:46	

LABORATORY CONTROL SAMPLE: 2413844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.3	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413845 2413846

Parameter	Units	40246555005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.1	12	12	16.4	16.9	94	98	80-120	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0156045.01
Pace Project No.: 40246766

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.01
Pace Project No.: 40246766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246766001	**MW-6**	EPA 8015B Modified	418891		
40246766002	**MW-7**	EPA 8015B Modified	418891		
40246766003	**MW-1**	EPA 8015B Modified	418891		
40246766004	**MW-13**	EPA 8015B Modified	418891		
40246766005	**MW-17**	EPA 8015B Modified	418891		
40246766001	**MW-6**	EPA 6010D	418837		
40246766002	**MW-7**	EPA 6010D	418837		
40246766003	**MW-1**	EPA 6010D	418837		
40246766004	**MW-13**	EPA 6010D	418837		
40246766005	**MW-17**	EPA 6010D	418837		
40246766001	**MW-6**	EPA 8260	418738		
40246766002	**MW-7**	EPA 8260	418738		
40246766003	**MW-1**	EPA 8260	418738		
40246766004	**MW-13**	EPA 8260	418738		
40246766005	**MW-17**	EPA 8260	418748		
40246766006	**TRIP**	EPA 8260	418748		
40246766001	**MW-6**	EPA 300.0	418974		
40246766002	**MW-7**	EPA 300.0	418974		
40246766003	**MW-1**	EPA 300.0	418974		
40246766004	**MW-13**	EPA 300.0	418974		
40246766005	**MW-17**	EPA 300.0	418974		
40246766001	**MW-6**	SM 5310C	419171		
40246766002	**MW-7**	SM 5310C	419171		
40246766003	**MW-1**	SM 5310C	419171		
40246766004	**MW-13**	SM 5310C	419171		
40246766005	**MW-17**	SM 5310C	419171		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40246766

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Company: GZA GeoEnvironmental	Billing Information: SAME
Address: Brookfield, WI	
Report To: Sheryl Stephenson	Email To: sheryl.stephenson@GZA.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.01	State: WI County/City: Waukesha Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Iron

Container Preservative Type **: 3 3 V 2 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOCs	MEE (diss. gases)	Sulfate	TOC	Diss Iron	Lab Profile/Line / Lab Sample # / Comments
MW-6	GW	G	6/16/22	0919	—	—			X	X	X	X	X	001
MW-7	GW	G	6/16/22	1000	—	—			X	X	X	X	X	002
MW-1	GW	G	6/16/22	1040	—	—			X	X	X	X	X	003
MW-13	GW	G	6/16/22	1149	—	—			X	X	X	X	X	004
MW-17	GW	G	6/16/22	1240	—	—			X	X	X	X	X	005
TRIP	W	—	6/16/22	—	—	—			X					006

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2781031

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments: (1)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	6/16/22 2:45pm	CS logistics	6/16/22 2:45pm
CS Logistics	6/17/22 0750	Anthony Wendel	6/17/22 0750

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Sample Preservation Receipt Form

Client Name: GZA GeoEnv. Project # 402161766

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: AL Date/Time:

Lab Lot# of pH paper: 100312 Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *					
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001				1						1		1					6													X		2.5 / 5 / 10
002				1						1		1					6													X		2.5 / 5 / 10
003				1						1		1					6													X		2.5 / 5 / 10
004				1						1		1					6													X		2.5 / 5 / 10
005				1						1		1					6													X		2.5 / 5 / 10
006																	2															2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

6/17/22 AL

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40246766

40246766

Client Name: GZA GeoEnv.

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: —

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-108 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 1.1

Person examining contents: Date: 6/17/22 /Initials: AZJ

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Labeled By Initials: MH

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no PO#, phone 6/17/22 AZJ
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☒No ☐N/A	12. 004 BD3N: "0949" 6/17/22 AZJ
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 483		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 21, 2022

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.02
Pace Project No.: 40248079

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.02
Pace Project No.: 40248079

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.02
Pace Project No.: 40248079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40248079001	**MW-6**	Water	07/13/22 11:09	07/14/22 08:00
40248079002	**MW-7**	Water	07/13/22 13:19	07/14/22 08:00
40248079003	**MW-1**	Water	07/13/22 13:57	07/14/22 08:00
40248079004	**MW-13**	Water	07/13/22 14:47	07/14/22 08:00
40248079005	**MW-17**	Water	07/13/22 15:27	07/14/22 08:00
40248079006	**TRIP**	Water	07/13/22 00:00	07/14/22 08:00

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SAMPLE ANALYTE COUNT

Project: 20.0156045.02
Pace Project No.: 40248079

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40248079001	**MW-6**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079002	**MW-7**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079003	**MW-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079004	**MW-13**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079005	**MW-17**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40248079006	**TRIP**	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.02
Pace Project No.: 40248079

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248079001	**MW-6**					
EPA 8015B Modified	Ethane	4.8J	ug/L	5.6	07/19/22 11:09	
EPA 8015B Modified	Ethene	4.5J	ug/L	5.0	07/19/22 11:09	
EPA 6010D	Iron, Dissolved	33300	ug/L	100	07/19/22 17:28	
EPA 8260	Tetrachloroethene	47.4	ug/L	1.0	07/18/22 12:38	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	07/18/22 12:38	
EPA 8260	Vinyl chloride	0.50J	ug/L	1.0	07/18/22 12:38	
EPA 8260	cis-1,2-Dichloroethene	7.3	ug/L	1.0	07/18/22 12:38	
SM 5310C	Total Organic Carbon	666	mg/L	30.0	07/19/22 13:08	
40248079002	**MW-7**					
EPA 6010D	Iron, Dissolved	5640	ug/L	100	07/19/22 17:31	
EPA 8260	Tetrachloroethene	66.3	ug/L	1.0	07/15/22 14:01	
EPA 8260	Trichloroethene	2.2	ug/L	1.0	07/15/22 14:01	
EPA 8260	cis-1,2-Dichloroethene	1.9	ug/L	1.0	07/15/22 14:01	
EPA 300.0	Sulfate	6.9J	mg/L	10.0	07/15/22 12:43	D3
SM 5310C	Total Organic Carbon	70.0	mg/L	15.0	07/19/22 13:23	
40248079003	**MW-1**					
EPA 6010D	Iron, Dissolved	4800	ug/L	100	07/19/22 17:33	
EPA 8260	Tetrachloroethene	74.7	ug/L	1.0	07/15/22 14:22	
EPA 8260	Trichloroethene	6.9	ug/L	1.0	07/15/22 14:22	
EPA 8260	cis-1,2-Dichloroethene	10.5	ug/L	1.0	07/15/22 14:22	
SM 5310C	Total Organic Carbon	45.1	mg/L	10.0	07/19/22 13:38	
40248079004	**MW-13**					
EPA 6010D	Iron, Dissolved	92.8J	ug/L	100	07/19/22 17:40	
EPA 8260	Tetrachloroethene	41.0	ug/L	1.0	07/15/22 14:42	
EPA 8260	Trichloroethene	0.59J	ug/L	1.0	07/15/22 14:42	
EPA 300.0	Sulfate	23.1	mg/L	2.0	07/15/22 13:11	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	07/20/22 03:35	
40248079005	**MW-17**					
EPA 8260	Tetrachloroethene	66.2	ug/L	1.0	07/15/22 15:03	
EPA 8260	Trichloroethene	0.57J	ug/L	1.0	07/15/22 15:03	
EPA 300.0	Sulfate	23.4	mg/L	2.0	07/15/22 13:26	
SM 5310C	Total Organic Carbon	2.2	mg/L	0.50	07/19/22 14:10	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Sample: MW-6 **Lab ID: 40248079001** Collected: 07/13/22 11:09 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**4.8J**	ug/L	5.6	0.39	1		07/19/22 11:09	74-84-0	
Ethene	**4.5J**	ug/L	5.0	0.25	1		07/19/22 11:09	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		07/19/22 11:09	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**33300**	ug/L	100	29.6	1		07/19/22 17:28	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**47.4**	ug/L	1.0	0.41	1		07/18/22 12:38	127-18-4	
Trichloroethene	**2.9**	ug/L	1.0	0.32	1		07/18/22 12:38	79-01-6	
Vinyl chloride	**0.50J**	ug/L	1.0	0.17	1		07/18/22 12:38	75-01-4	
cis-1,2-Dichloroethene	**7.3**	ug/L	1.0	0.47	1		07/18/22 12:38	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/18/22 12:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		07/18/22 12:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		07/18/22 12:38	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		07/18/22 12:38	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		07/15/22 11:59	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**666**	mg/L	30.0	8.3	60		07/19/22 13:08	7440-44-0	

Sample: MW-7 **Lab ID: 40248079002** Collected: 07/13/22 13:19 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		07/19/22 11:15	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		07/19/22 11:15	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		07/19/22 11:15	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**5640**	ug/L	100	29.6	1		07/19/22 17:31	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Sample: MW-7 **Lab ID: 40248079002** Collected: 07/13/22 13:19 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**66.3**	ug/L	1.0	0.41	1		07/15/22 14:01	127-18-4	
Trichloroethene	**2.2**	ug/L	1.0	0.32	1		07/15/22 14:01	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 14:01	75-01-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	0.47	1		07/15/22 14:01	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 14:01	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/15/22 14:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		07/15/22 14:01	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 14:01	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**6.9J**	mg/L	10.0	2.2	5		07/15/22 12:43	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**70.0**	mg/L	15.0	4.2	30		07/19/22 13:23	7440-44-0	

Sample: MW-1 **Lab ID: 40248079003** Collected: 07/13/22 13:57 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		07/19/22 11:22	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		07/19/22 11:22	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		07/19/22 11:22	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**4800**	ug/L	100	29.6	1		07/19/22 17:33	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**74.7**	ug/L	1.0	0.41	1		07/15/22 14:22	127-18-4	
Trichloroethene	**6.9**	ug/L	1.0	0.32	1		07/15/22 14:22	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 14:22	75-01-4	
cis-1,2-Dichloroethene	**10.5**	ug/L	1.0	0.47	1		07/15/22 14:22	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 14:22	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 14:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		07/15/22 14:22	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/15/22 14:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Sample: MW-1 **Lab ID: 40248079003** Collected: 07/13/22 13:57 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		07/15/22 12:57	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**45.1**	mg/L	10.0	2.8	20		07/19/22 13:38	7440-44-0	

Sample: MW-13 **Lab ID: 40248079004** Collected: 07/13/22 14:47 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		07/19/22 11:29	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		07/19/22 11:29	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		07/19/22 11:29	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**92.8J**	ug/L	100	29.6	1		07/19/22 17:40	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**41.0**	ug/L	1.0	0.41	1		07/15/22 14:42	127-18-4	
Trichloroethene	**0.59J**	ug/L	1.0	0.32	1		07/15/22 14:42	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 14:42	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 14:42	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 14:42	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/15/22 14:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/15/22 14:42	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 14:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**23.1**	mg/L	2.0	0.44	1		07/15/22 13:11	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.8**	mg/L	1.0	0.28	2		07/20/22 03:35	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Sample: MW-17 **Lab ID: 40248079005** Collected: 07/13/22 15:27 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		07/19/22 11:36	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		07/19/22 11:36	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		07/19/22 11:36	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		07/19/22 17:43	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**66.2**	ug/L	1.0	0.41	1		07/15/22 15:03	127-18-4	
Trichloroethene	**0.57J**	ug/L	1.0	0.32	1		07/15/22 15:03	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 15:03	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 15:03	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 15:03	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 15:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/15/22 15:03	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/15/22 15:03	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**23.4**	mg/L	2.0	0.44	1		07/15/22 13:26	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.2**	mg/L	0.50	0.14	1		07/19/22 14:10	7440-44-0	

Sample: TRIP **Lab ID: 40248079006** Collected: 07/13/22 00:00 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 13:40	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 13:40	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 13:40	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 13:40	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 13:40	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 13:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/15/22 13:40	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/15/22 13:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 421128 | Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified | Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2425640 Matrix: Water
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	07/19/22 10:08	
Ethene	ug/L	<0.25	5.0	07/19/22 10:08	
Methane	ug/L	<0.58	2.8	07/19/22 10:08	

LABORATORY CONTROL SAMPLE & LCSD: 2425641 2425642

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	53.6	52.2	100	97	74-120	3	20	
Ethene	ug/L	50	49.9	48.4	100	97	71-122	3	20	
Methane	ug/L	28.6	29.5	28.9	103	101	73-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425937 2425938

Parameter	Units	40248079002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	50.4	52.0	94	97	70-120	3	20	
Ethene	ug/L	<0.25	50	50	46.9	48.3	94	97	68-122	3	20	
Methane	ug/L	<0.58	28.6	28.6	28.2	29.2	99	102	10-200	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 421216
QC Batch Method: EPA 6010D
Analysis Method: EPA 6010D
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2426056 Matrix: Water
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	07/19/22 16:59	

LABORATORY CONTROL SAMPLE: 2426057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10500	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2426058 2426059

Parameter	Units	40248077001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<29.6	10000	10000	10400	10300	104	103	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 420872 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005, 40248079006

METHOD BLANK: 2424053 Matrix: Water
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005, 40248079006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/15/22 08:18	
Tetrachloroethene	ug/L	<0.41	1.0	07/15/22 08:18	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/15/22 08:18	
Trichloroethene	ug/L	<0.32	1.0	07/15/22 08:18	
Vinyl chloride	ug/L	<0.17	1.0	07/15/22 08:18	
1,2-Dichlorobenzene-d4 (S)	%	107	70-130	07/15/22 08:18	
4-Bromofluorobenzene (S)	%	103	70-130	07/15/22 08:18	
Toluene-d8 (S)	%	97	70-130	07/15/22 08:18	

LABORATORY CONTROL SAMPLE: 2424054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
Vinyl chloride	ug/L	50	47.1	94	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425273 2425274

Parameter	Units	40248079002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	1.9	50	50	49.0	49.3	94	95	70-130	1	20	
Tetrachloroethene	ug/L	66.3	50	50	123	120	114	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50.4	51.6	101	103	70-130	2	20	
Trichloroethene	ug/L	2.2	50	50	56.2	57.2	108	110	70-130	2	20	
Vinyl chloride	ug/L	<0.17	50	50	47.3	48.4	95	97	60-137	2	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130			
4-Bromofluorobenzene (S)	%						104	105	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 420917 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2424382 — Matrix: Water
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	07/15/22 11:31	

LABORATORY CONTROL SAMPLE: 2424383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424384 2424385

Parameter	Units	40248079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<2.2	100	100	105	111	104	110	90-110	5	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424386 2424387

Parameter	Units	40248091001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	162	200	200	353	373	96	106	90-110	6	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 420978 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

METHOD BLANK: 2425185 Matrix: Water
Associated Lab Samples: 40248079001, 40248079002, 40248079003, 40248079004, 40248079005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	07/19/22 11:47	

LABORATORY CONTROL SAMPLE: 2425186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425187 2425188

Parameter	Units	40248178008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	6.0	6	6	11.9	11.9	97	97	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425189 2425190

Parameter	Units	40248178015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.8	6	6	8.7	8.7	98	99	80-120	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0156045.02
Pace Project No.: 40248079

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02
Pace Project No.: 40248079

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248079001	**MW-6**	EPA 8015B Modified	421128		
40248079002	**MW-7**	EPA 8015B Modified	421128		
40248079003	**MW-1**	EPA 8015B Modified	421128		
40248079004	**MW-13**	EPA 8015B Modified	421128		
40248079005	**MW-17**	EPA 8015B Modified	421128		
40248079001	**MW-6**	EPA 6010D	421216		
40248079002	**MW-7**	EPA 6010D	421216		
40248079003	**MW-1**	EPA 6010D	421216		
40248079004	**MW-13**	EPA 6010D	421216		
40248079005	**MW-17**	EPA 6010D	421216		
40248079001	**MW-6**	EPA 8260	420872		
40248079002	**MW-7**	EPA 8260	420872		
40248079003	**MW-1**	EPA 8260	420872		
40248079004	**MW-13**	EPA 8260	420872		
40248079005	**MW-17**	EPA 8260	420872		
40248079006	**TRIP**	EPA 8260	420872		
40248079001	**MW-6**	EPA 300.0	420917		
40248079002	**MW-7**	EPA 300.0	420917		
40248079003	**MW-1**	EPA 300.0	420917		
40248079004	**MW-13**	EPA 300.0	420917		
40248079005	**MW-17**	EPA 300.0	420917		
40248079001	**MW-6**	SM 5310C	420978		
40248079002	**MW-7**	SM 5310C	420978		
40248079003	**MW-1**	SM 5310C	420978		
40248079004	**MW-13**	SM 5310C	420978		
40248079005	**MW-17**	SM 5310C	420978		

40248079

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental Inc	Billing Information: SAME
Address: 17975 W Sarah Lane	
Report To: Sheryl Stephenson	Email To:
Copy To: NA	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.02	State: WI / County/City: Time Zone Collected: [ ]PT [ ]MT [X]CT [ ]ET
Phone: 262 202 1716 Email: Sheryl.Stephenson@gza.com	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal TAT Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Iron.

Container Preservative Type **: 3 3 2 1 U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	CVOCs	Methane / Ethane / Ethene	TOC	Diss Iron	Sulfate					Lab Sample # / Comments
MW-6	GW	G	7/13/22	1109				9	X	X	X	X	X					001
MW-7	GW	G	7/13/22	1319				9	X	X	X	X	X					002
MW-1	GW	G	7/13/22	1357				9	X	X	X	X	X					003
MW-13	GW	G	7/13/22	1447				9	X	X	X	X	X					004
MW-17	GW	G	7/13/22	1527				9	X	X	X	X	X					005
TRIP	W							1	X									006

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2825225

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: 0 oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	7/13/22 1800	C.S Logistics	7/13/22 1800
C.S Logistics	7/14/22 0800	Susan Killie Pace	7/14/22 0800
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Sample Preservation Receipt Form

Client Name: GZA Project # 40248079

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: SKW Date/ Time:

Lab Lot# of pH paper: 10D3111 Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001							1			1		1					6													X		2.5 / 5 / 10
002							1			1		1					6													X		2.5 / 5 / 10
003							1			1		1					6													X		2.5 / 5 / 10
004							1			1		1					6													X		2.5 / 5 / 10
005							1			1		1					6													X		2.5 / 5 / 10
006																	1															2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40248079

40248079

Client Name: GZA

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 117 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5 /Corr: 3

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 7/14/22 /Initials: SCW

Labeled By Initials: NL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 486		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 22, 2022

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.02
Pace Project No.: 40249849

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.02
Pace Project No.: 40249849

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.02
Pace Project No.: 40249849

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40249849001	**MW-1**	Water	08/12/22 09:10	08/13/22 08:45
40249849002	**MW-6**	Water	08/12/22 10:16	08/13/22 08:45
40249849003	**MW-7**	Water	08/12/22 10:55	08/13/22 08:45
40249849004	**MW-13**	Water	08/12/22 11:45	08/13/22 08:45
40249849005	**MW-17**	Water	08/12/22 12:24	08/13/22 08:45
40249849006	**TRIP**	Water	08/12/22 00:00	08/13/22 08:45

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SAMPLE ANALYTE COUNT

Project: 20.0156045.02
Pace Project No.: 40249849

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40249849001	**MW-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849002	**MW-6**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849003	**MW-7**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849004	**MW-13**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849005	**MW-17**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	TXW	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40249849006	**TRIP**	EPA 8260	SMT	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.02
Pace Project No.: 40249849

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40249849001	**MW-1**					
EPA 8015B Modified	Methane	37.1	ug/L	2.8	08/18/22 10:02	
EPA 6010D	Iron, Dissolved	6310	ug/L	100	08/16/22 23:38	
EPA 8260	Tetrachloroethene	11.3	ug/L	1.0	08/15/22 15:54	
EPA 8260	cis-1,2-Dichloroethene	2.2	ug/L	1.0	08/15/22 15:54	
EPA 300.0	Sulfate	0.85J	mg/L	2.0	08/16/22 20:42	
SM 5310C	Total Organic Carbon	22.2	mg/L	3.0	08/17/22 14:44	
40249849002	**MW-6**					
EPA 8015B Modified	Ethane	1.9J	ug/L	5.6	08/18/22 10:09	
EPA 8015B Modified	Ethene	2.1J	ug/L	5.0	08/18/22 10:09	
EPA 8015B Modified	Methane	11.5	ug/L	2.8	08/18/22 10:09	
EPA 6010D	Iron, Dissolved	40800	ug/L	100	08/16/22 23:41	
EPA 8260	Tetrachloroethene	15.6	ug/L	1.0	08/15/22 16:14	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	08/15/22 16:14	
EPA 8260	Vinyl chloride	13.3	ug/L	1.0	08/15/22 16:14	
EPA 8260	cis-1,2-Dichloroethene	219	ug/L	1.0	08/15/22 16:14	
EPA 8260	trans-1,2-Dichloroethene	0.64J	ug/L	1.0	08/15/22 16:14	
SM 5310C	Total Organic Carbon	314	mg/L	50.0	08/17/22 15:00	
40249849003	**MW-7**					
EPA 8015B Modified	Methane	4.1	ug/L	2.8	08/18/22 10:16	
EPA 6010D	Iron, Dissolved	1690	ug/L	100	08/16/22 23:43	
EPA 8260	Tetrachloroethene	31.2	ug/L	1.0	08/15/22 16:34	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	08/15/22 16:34	
EPA 8260	cis-1,2-Dichloroethene	9.7	ug/L	1.0	08/15/22 16:34	
EPA 300.0	Sulfate	13.0	mg/L	2.0	08/16/22 21:11	
SM 5310C	Total Organic Carbon	4.3	mg/L	0.50	08/17/22 15:16	
40249849004	**MW-13**					
EPA 8260	Tetrachloroethene	34.5	ug/L	1.0	08/15/22 16:53	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	08/15/22 16:53	
EPA 8260	cis-1,2-Dichloroethene	15.1	ug/L	1.0	08/15/22 16:53	
EPA 300.0	Sulfate	11.0	mg/L	2.0	08/16/22 21:25	
SM 5310C	Total Organic Carbon	2.2	mg/L	0.50	08/17/22 15:33	
40249849005	**MW-17**					
EPA 6010D	Iron, Dissolved	565	ug/L	100	08/16/22 23:53	
EPA 8260	Tetrachloroethene	67.6	ug/L	1.0	08/15/22 17:13	
EPA 8260	Trichloroethene	0.61J	ug/L	1.0	08/15/22 17:13	
EPA 300.0	Sulfate	21.8	mg/L	2.0	08/16/22 21:40	
SM 5310C	Total Organic Carbon	5.3	mg/L	0.50	08/17/22 15:50	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Sample: MW-1 **Lab ID: 40249849001** Collected: 08/12/22 09:10 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		08/18/22 10:02	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		08/18/22 10:02	74-85-1	
Methane	**37.1**	ug/L	2.8	0.58	1		08/18/22 10:02	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**6310**	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:38	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**11.3**	ug/L	1.0	0.41	1		08/15/22 15:54	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		08/15/22 15:54	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/15/22 15:54	75-01-4	
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.47	1		08/15/22 15:54	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/15/22 15:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/15/22 15:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		08/15/22 15:54	2199-69-1	
Toluene-d8 (S)	105	%	70-130		1		08/15/22 15:54	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**0.85J**	mg/L	2.0	0.44	1		08/16/22 20:42	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**22.2**	mg/L	3.0	0.83	6		08/17/22 14:44	7440-44-0	

Sample: MW-6 **Lab ID: 40249849002** Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**1.9J**	ug/L	5.6	0.39	1		08/18/22 10:09	74-84-0	
Ethene	**2.1J**	ug/L	5.0	0.25	1		08/18/22 10:09	74-85-1	
Methane	**11.5**	ug/L	2.8	0.58	1		08/18/22 10:09	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**40800**	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:41	7439-89-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Sample: MW-6 **Lab ID: 40249849002** Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**15.6**	ug/L	1.0	0.41	1		08/15/22 16:14	127-18-4	
Trichloroethene	**1.8**	ug/L	1.0	0.32	1		08/15/22 16:14	79-01-6	
Vinyl chloride	**13.3**	ug/L	1.0	0.17	1		08/15/22 16:14	75-01-4	
cis-1,2-Dichloroethene	**219**	ug/L	1.0	0.47	1		08/15/22 16:14	156-59-2	
trans-1,2-Dichloroethene	**0.64J**	ug/L	1.0	0.53	1		08/15/22 16:14	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/15/22 16:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		08/15/22 16:14	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		08/15/22 16:14	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		08/16/22 20:56	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**314**	mg/L	50.0	13.8	100		08/17/22 15:00	7440-44-0	

Sample: MW-7 **Lab ID: 40249849003** Collected: 08/12/22 10:55 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		08/18/22 10:16	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		08/18/22 10:16	74-85-1	
Methane	**4.1**	ug/L	2.8	0.58	1		08/18/22 10:16	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**1690**	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:43	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**31.2**	ug/L	1.0	0.41	1		08/15/22 16:34	127-18-4	
Trichloroethene	**1.6**	ug/L	1.0	0.32	1		08/15/22 16:34	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/15/22 16:34	75-01-4	
cis-1,2-Dichloroethene	**9.7**	ug/L	1.0	0.47	1		08/15/22 16:34	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/15/22 16:34	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		08/15/22 16:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		08/15/22 16:34	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		08/15/22 16:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Sample: MW-7 **Lab ID: 40249849003** Collected: 08/12/22 10:55 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**13.0**	mg/L	2.0	0.44	1		08/16/22 21:11	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**4.3**	mg/L	0.50	0.14	1		08/17/22 15:16	7440-44-0	

Sample: MW-13 **Lab ID: 40249849004** Collected: 08/12/22 11:45 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		08/18/22 10:23	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		08/18/22 10:23	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		08/18/22 10:23	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**<56.7**	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:50	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**34.5**	ug/L	1.0	0.41	1		08/15/22 16:53	127-18-4	
Trichloroethene	**1.6**	ug/L	1.0	0.32	1		08/15/22 16:53	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/15/22 16:53	75-01-4	
cis-1,2-Dichloroethene	**15.1**	ug/L	1.0	0.47	1		08/15/22 16:53	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/15/22 16:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		08/15/22 16:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		08/15/22 16:53	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		08/15/22 16:53	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**11.0**	mg/L	2.0	0.44	1		08/16/22 21:25	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.2**	mg/L	0.50	0.14	1		08/17/22 15:33	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Sample: MW-17 **Lab ID: 40249849005** Collected: 08/12/22 12:24 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		08/18/22 10:30	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		08/18/22 10:30	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		08/18/22 10:30	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Iron, Dissolved	**565**	ug/L	100	56.7	1	08/15/22 06:31	08/16/22 23:53	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**67.6**	ug/L	1.0	0.41	1		08/15/22 17:13	127-18-4	
Trichloroethene	**0.61J**	ug/L	1.0	0.32	1		08/15/22 17:13	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/15/22 17:13	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		08/15/22 17:13	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/15/22 17:13	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/15/22 17:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		08/15/22 17:13	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		08/15/22 17:13	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**21.8**	mg/L	2.0	0.44	1		08/16/22 21:40	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**5.3**	mg/L	0.50	0.14	1		08/17/22 15:50	7440-44-0	

Sample: TRIP **Lab ID: 40249849006** Collected: 08/12/22 00:00 Received: 08/13/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		08/15/22 12:38	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		08/15/22 12:38	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/15/22 12:38	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		08/15/22 12:38	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/15/22 12:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/15/22 12:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		08/15/22 12:38	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		08/15/22 12:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40249849

QC Batch: 423770 | Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified | Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2440570 Matrix: Water
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	08/18/22 09:01	
Ethene	ug/L	<0.25	5.0	08/18/22 09:01	
Methane	ug/L	<0.58	2.8	08/18/22 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 2440571 2440572

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.3	52.0	98	97	74-120	1	20	
Ethene	ug/L	50	48.9	48.5	98	97	71-122	1	20	
Methane	ug/L	28.6	29.8	29.6	104	104	73-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2440652 2440653

Parameter	Units	40249655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.4	53.0	92	99	70-120	7	20	
Ethene	ug/L	<0.25	50	50	46.6	49.8	93	100	68-122	7	20	
Methane	ug/L	<0.58	28.6	28.6	27.3	29.5	96	103	10-200	8	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40249849

QC Batch: 423389 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2438815 — Matrix: Water
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<56.7	100	08/16/22 22:59	

LABORATORY CONTROL SAMPLE: 2438816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2438817 2438818

Parameter	Units	40249317002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	0.099J mg/L	10000	10000	10600	10400	105	103	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40249849

QC Batch: 423397
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005, 40249849006

METHOD BLANK: 2438837 Matrix: Water
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005, 40249849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/15/22 10:00	
Tetrachloroethene	ug/L	<0.41	1.0	08/15/22 10:00	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/15/22 10:00	
Trichloroethene	ug/L	<0.32	1.0	08/15/22 10:00	
Vinyl chloride	ug/L	<0.17	1.0	08/15/22 10:00	
1,2-Dichlorobenzene-d4 (S)	%	95	70-130	08/15/22 10:00	
4-Bromofluorobenzene (S)	%	98	70-130	08/15/22 10:00	
Toluene-d8 (S)	%	103	70-130	08/15/22 10:00	

LABORATORY CONTROL SAMPLE: 2438838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.0	114	70-130	
Trichloroethene	ug/L	50	52.8	106	70-130	
Vinyl chloride	ug/L	50	52.9	106	63-134	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439076 2439077

Parameter	Units	40249727001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	0.78J	50	50	52.4	53.3	103	105	70-130	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	51.7	52.7	103	105	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	56.8	56.7	114	113	70-130	0	20	
Trichloroethene	ug/L	<0.32	50	50	53.1	53.5	106	107	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	53.0	53.3	106	107	60-137	1	20	
1,2-Dichlorobenzene-d4 (S)	%						94	97	70-130			
4-Bromofluorobenzene (S)	%						97	100	70-130			
Toluene-d8 (S)	%						103	105	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40249849

QC Batch: 423572 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2439684 — Matrix: Water
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	08/16/22 14:47	

LABORATORY CONTROL SAMPLE: 2439685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439686 2439687

Parameter	Units	40249492001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	90.0	400	400	518	496	107	102	90-110	4	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40249849

QC Batch: 423567 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

METHOD BLANK: 2439642 Matrix: Water
Associated Lab Samples: 40249849001, 40249849002, 40249849003, 40249849004, 40249849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	08/17/22 10:36	

LABORATORY CONTROL SAMPLE: 2439643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.4	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439644 2439645

Parameter	Units	40249655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.2	6	6	7.0	7.1	95	97	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2439646 2439647

Parameter	Units	40249655002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.94	6	6	6.6	6.7	95	97	80-120	2	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALIFIERS

Project: 20.0156045.02
Pace Project No.: 40249849

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02
Pace Project No.: 40249849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40249849001	**MW-1**	EPA 8015B Modified	423770		
40249849002	**MW-6**	EPA 8015B Modified	423770		
40249849003	**MW-7**	EPA 8015B Modified	423770		
40249849004	**MW-13**	EPA 8015B Modified	423770		
40249849005	**MW-17**	EPA 8015B Modified	423770		
40249849001	**MW-1**	EPA 3010A	423389	EPA 6010D	423484
40249849002	**MW-6**	EPA 3010A	423389	EPA 6010D	423484
40249849003	**MW-7**	EPA 3010A	423389	EPA 6010D	423484
40249849004	**MW-13**	EPA 3010A	423389	EPA 6010D	423484
40249849005	**MW-17**	EPA 3010A	423389	EPA 6010D	423484
40249849001	**MW-1**	EPA 8260	423397		
40249849002	**MW-6**	EPA 8260	423397		
40249849003	**MW-7**	EPA 8260	423397		
40249849004	**MW-13**	EPA 8260	423397		
40249849005	**MW-17**	EPA 8260	423397		
40249849006	**TRIP**	EPA 8260	423397		
40249849001	**MW-1**	EPA 300.0	423572		
40249849002	**MW-6**	EPA 300.0	423572		
40249849003	**MW-7**	EPA 300.0	423572		
40249849004	**MW-13**	EPA 300.0	423572		
40249849005	**MW-17**	EPA 300.0	423572		
40249849001	**MW-1**	SM 5310C	423567		
40249849002	**MW-6**	SM 5310C	423567		
40249849003	**MW-7**	SM 5310C	423567		
40249849004	**MW-13**	SM 5310C	423567		
40249849005	**MW-17**	SM 5310C	423567		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40249849

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental Inc	Billing Information: AP @ GZA.com
Address: 17975 W Sarah Lane	
Report To: Sheryl.Stephenson@gza.com	Email To: Same
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.02	State: WI County/City: WAUKESHA Time Zone Collected: [ ]PT [ ]MT [x]CT [ ]ET
Phone: 262 2021716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [x] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [x] Yes [ ] No Analysis: Diss Fe

Container Preservative Type **: 3 3 U 2 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOC	MIBE	Sulfate	TOC	Metals (Diss Fe)	Lab Profile/Line:
MW-1	GW	G	8/12/22	0910				9	X	X	X	X	X	001
MW-6	GW	G	8/12/22	1016				9	X	X	X	X	X	002
MW-7	GW	G	8/12/22	1055				9	X	X	X	X	X	003
MW-13	GW	G	8/12/22	1145				9	X	X	X	X	X	004
MW-17	GW	G	8/12/22	1224				9	X	X	X	X	X	005
TRIP	GW	—	—	—	—	—		1	X	X	X	X	X	006

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2825175

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	8/12/22 1500	CS Logistics	8/12/22 1500
CS Logistics	8/13/22 0845		8/13/22 0845

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: GZA GeoEnv. Project # 40249949

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: AW Date/ Time:

Lab Lot# of pH paper: 1003111 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm)	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001										/		/					6									/				X		2.5 / 5 / 10
002										/		/					6									/				X		2.5 / 5 / 10
003										/		/					6									/				X		2.5 / 5 / 10
004										/		/					6									/				X		2.5 / 5 / 10
005										/		/					6									/				X		2.5 / 5 / 10
006																	/										/	+ 8/13/20 AW				2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																		8/13/20 AW														2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: (VOA), Coliform, (TOC), TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☒Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	100mL amber glass H2SO4

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40249849

40249849

Client Name: GZA GeoEnv.

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: ~

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 115 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice

Cooler Temperature Uncorr: 1 /Corr: 6

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 8/13/22 /Initials: AJ

Labeled By Initials: BS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no pg# 8/13/22 AJ
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 486		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 22, 2022

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40254772001	**MW-20**	Water	11/14/22 10:28	11/15/22 08:00
40254772002	**MW-21**	Water	11/14/22 10:31	11/15/22 08:00
40254772003	**MW-19**	Water	11/14/22 11:11	11/15/22 08:00
40254772004	**MW-17**	Water	11/14/22 11:56	11/15/22 08:00
40254772005	**MW-16**	Water	11/14/22 12:06	11/15/22 08:00
40254772006	**MW-13**	Water	11/14/22 13:05	11/15/22 08:00
40254772007	**MW-12**	Water	11/14/22 12:49	11/15/22 08:00
40254772008	**PZ- 3**	Water	11/14/22 12:39	11/15/22 08:00
40254772009	**MW- 5**	Water	11/14/22 13:35	11/15/22 08:00
40254772010	**MW- 2**	Water	11/14/22 13:37	11/15/22 08:00
40254772011	**MW-14**	Water	11/14/22 14:09	11/15/22 08:00
40254772012	**MW-18**	Water	11/14/22 14:27	11/15/22 08:00
40254772013	**DUP- 1**	Water	11/14/22 00:00	11/15/22 08:00
40254772014	**TRIP BLANK**	Water	11/14/22 00:00	11/15/22 08:00

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40254772001	**MW-20**	EPA 8260	EIB	8	PASI-G
40254772002	**MW-21**	EPA 8260	EIB	8	PASI-G
40254772003	**MW-19**	EPA 8260	EIB	8	PASI-G
40254772004	**MW-17**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254772005	**MW-16**	EPA 8260	EIB	8	PASI-G
40254772006	**MW-13**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254772007	**MW-12**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254772008	**PZ- 3**	EPA 8260	EIB	8	PASI-G
40254772009	**MW- 5**	EPA 8260	EIB	8	PASI-G
40254772010	**MW- 2**	EPA 8260	EIB	8	PASI-G
40254772011	**MW-14**	EPA 8260	EIB	8	PASI-G
40254772012	**MW-18**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254772013	**DUP- 1**	EPA 8260	EIB	8	PASI-G
40254772014	**TRIP BLANK**	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40254772001	**MW-20**					
EPA 8260	Tetrachloroethene	33.3	ug/L	1.0	11/18/22 08:47	
40254772002	**MW-21**					
EPA 8260	Tetrachloroethene	56.0	ug/L	1.0	11/17/22 13:52	
40254772003	**MW-19**					
EPA 8260	Tetrachloroethene	14.5	ug/L	1.0	11/17/22 17:27	
40254772004	**MW-17**					
EPA 8015B Modified	Methane	5.3	ug/L	2.8	11/18/22 12:07	B
EPA 6010D	Iron, Dissolved	68.3J	ug/L	100	11/16/22 13:44	
EPA 8260	Tetrachloroethene	60.6	ug/L	1.0	11/17/22 14:12	
EPA 8260	Trichloroethene	1.0	ug/L	1.0	11/17/22 14:12	
EPA 8260	cis-1,2-Dichloroethene	8.8	ug/L	1.0	11/17/22 14:12	
EPA 300.0	Sulfate	18.7	mg/L	2.0	11/17/22 02:31	
SM 5310C	Total Organic Carbon	2.1	mg/L	0.50	11/21/22 23:15	
40254772005	**MW-16**					
EPA 8260	Tetrachloroethene	9.8	ug/L	1.0	11/17/22 14:31	
EPA 8260	cis-1,2-Dichloroethene	2.6	ug/L	1.0	11/17/22 14:31	
40254772006	**MW-13**					
EPA 8015B Modified	Methane	132	ug/L	2.8	11/18/22 12:14	
EPA 6010D	Iron, Dissolved	69.3J	ug/L	100	11/16/22 13:52	
EPA 8260	Tetrachloroethene	19.7	ug/L	1.0	11/17/22 14:51	
EPA 8260	Trichloroethene	0.71J	ug/L	1.0	11/17/22 14:51	
EPA 8260	cis-1,2-Dichloroethene	13.5	ug/L	1.0	11/17/22 14:51	
EPA 300.0	Sulfate	11.0	mg/L	2.0	11/17/22 02:46	
SM 5310C	Total Organic Carbon	1.8	mg/L	0.50	11/22/22 00:07	
40254772007	**MW-12**					
EPA 8015B Modified	Methane	1.6J	ug/L	2.8	11/18/22 12:21	B
EPA 8260	Tetrachloroethene	83.5	ug/L	1.0	11/17/22 15:10	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	11/17/22 15:10	
EPA 8260	cis-1,2-Dichloroethene	14.5	ug/L	1.0	11/17/22 15:10	
EPA 300.0	Sulfate	16.2	mg/L	2.0	11/17/22 03:01	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	11/22/22 00:25	B
40254772008	**PZ- 3**					
EPA 8260	Tetrachloroethene	42.2	ug/L	1.0	11/17/22 15:30	
EPA 8260	cis-1,2-Dichloroethene	1.2	ug/L	1.0	11/17/22 15:30	
40254772009	**MW- 5**					
EPA 8260	Tetrachloroethene	1.3	ug/L	1.0	11/17/22 15:49	
40254772010	**MW- 2**					
EPA 8260	Tetrachloroethene	12.5	ug/L	1.0	11/17/22 16:09	
40254772011	**MW-14**					
EPA 8260	Tetrachloroethene	11.6	ug/L	1.0	11/17/22 16:28	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40254772012	**MW-18**					
EPA 8015B Modified	Methane	1.5J	ug/L	2.8	11/18/22 12:27	B
EPA 6010D	Iron, Dissolved	33.2J	ug/L	100	11/16/22 14:00	
EPA 8260	Tetrachloroethene	62.1	ug/L	1.0	11/17/22 16:48	
EPA 8260	Trichloroethene	0.69J	ug/L	1.0	11/17/22 16:48	
EPA 8260	cis-1,2-Dichloroethene	1.0	ug/L	1.0	11/17/22 16:48	
EPA 300.0	Sulfate	23.1	mg/L	2.0	11/17/22 03:15	
SM 5310C	Total Organic Carbon	1.9	mg/L	0.50	11/22/22 00:41	
40254772013	**DUP- 1**					
EPA 8260	Tetrachloroethene	37.4	ug/L	1.0	11/17/22 17:07	

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW-20 **Lab ID: 40254772001** Collected: 11/14/22 10:28 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**33.3**	ug/L	1.0	0.41	1		11/18/22 08:47	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/18/22 08:47	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/18/22 08:47	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/18/22 08:47	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/18/22 08:47	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/18/22 08:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/18/22 08:47	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		11/18/22 08:47	2037-26-5	

Sample: MW-21 **Lab ID: 40254772002** Collected: 11/14/22 10:31 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**56.0**	ug/L	1.0	0.41	1		11/17/22 13:52	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 13:52	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 13:52	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 13:52	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 13:52	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/22 13:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/17/22 13:52	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/17/22 13:52	2037-26-5	

Sample: MW-19 **Lab ID: 40254772003** Collected: 11/14/22 11:11 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**14.5**	ug/L	1.0	0.41	1		11/17/22 17:27	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 17:27	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 17:27	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 17:27	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 17:27	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/17/22 17:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		11/17/22 17:27	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/17/22 17:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW-17 **Lab ID: 40254772004** Collected: 11/14/22 11:56 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:07	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:07	74-85-1	
Methane	**5.3**	ug/L	2.8	0.58	1		11/18/22 12:07	74-82-8	B
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**68.3J**	ug/L	100	29.6	1		11/16/22 13:44	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**60.6**	ug/L	1.0	0.41	1		11/17/22 14:12	127-18-4	
Trichloroethene	**1.0**	ug/L	1.0	0.32	1		11/17/22 14:12	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 14:12	75-01-4	
cis-1,2-Dichloroethene	**8.8**	ug/L	1.0	0.47	1		11/17/22 14:12	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 14:12	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/17/22 14:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/17/22 14:12	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/17/22 14:12	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**18.7**	mg/L	2.0	0.44	1		11/17/22 02:31	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.1**	mg/L	0.50	0.14	1		11/21/22 23:15	7440-44-0	

Sample: MW-16 **Lab ID: 40254772005** Collected: 11/14/22 12:06 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**9.8**	ug/L	1.0	0.41	1		11/17/22 14:31	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 14:31	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 14:31	75-01-4	
cis-1,2-Dichloroethene	**2.6**	ug/L	1.0	0.47	1		11/17/22 14:31	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 14:31	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/17/22 14:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		11/17/22 14:31	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/17/22 14:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW-13 **Lab ID: 40254772006** Collected: 11/14/22 13:05 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:14	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:14	74-85-1	
Methane	**132**	ug/L	2.8	0.58	1		11/18/22 12:14	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**69.3J**	ug/L	100	29.6	1		11/16/22 13:52	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**19.7**	ug/L	1.0	0.41	1		11/17/22 14:51	127-18-4	
Trichloroethene	**0.71J**	ug/L	1.0	0.32	1		11/17/22 14:51	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 14:51	75-01-4	
cis-1,2-Dichloroethene	**13.5**	ug/L	1.0	0.47	1		11/17/22 14:51	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 14:51	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/17/22 14:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/17/22 14:51	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/17/22 14:51	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**11.0**	mg/L	2.0	0.44	1		11/17/22 02:46	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.8**	mg/L	0.50	0.14	1		11/22/22 00:07	7440-44-0	

Sample: MW-12 **Lab ID: 40254772007** Collected: 11/14/22 12:49 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:21	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:21	74-85-1	
Methane	**1.6J**	ug/L	2.8	0.58	1		11/18/22 12:21	74-82-8	B
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		11/16/22 13:57	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW-12 **Lab ID: 40254772007** Collected: 11/14/22 12:49 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**83.5**	ug/L	1.0	0.41	1		11/17/22 15:10	127-18-4	
Trichloroethene	**1.6**	ug/L	1.0	0.32	1		11/17/22 15:10	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 15:10	75-01-4	
cis-1,2-Dichloroethene	**14.5**	ug/L	1.0	0.47	1		11/17/22 15:10	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 15:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/17/22 15:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/17/22 15:10	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		11/17/22 15:10	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**16.2**	mg/L	2.0	0.44	1		11/17/22 03:01	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.1**	mg/L	0.50	0.14	1		11/22/22 00:25	7440-44-0	B

Sample: PZ- 3 **Lab ID: 40254772008** Collected: 11/14/22 12:39 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**42.2**	ug/L	1.0	0.41	1		11/17/22 15:30	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 15:30	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 15:30	75-01-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.47	1		11/17/22 15:30	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 15:30	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/22 15:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/17/22 15:30	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/17/22 15:30	2037-26-5	

Sample: MW- 5 **Lab ID: 40254772009** Collected: 11/14/22 13:35 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**1.3**	ug/L	1.0	0.41	1		11/17/22 15:49	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW- 5 **Lab ID: 40254772009** Collected: 11/14/22 13:35 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 15:49	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 15:49	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 15:49	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 15:49	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/22 15:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/17/22 15:49	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/17/22 15:49	2037-26-5	

Sample: MW- 2 **Lab ID: 40254772010** Collected: 11/14/22 13:37 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**12.5**	ug/L	1.0	0.41	1		11/17/22 16:09	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 16:09	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 16:09	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 16:09	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 16:09	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/17/22 16:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/17/22 16:09	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/17/22 16:09	2037-26-5	

Sample: MW-14 **Lab ID: 40254772011** Collected: 11/14/22 14:09 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**11.6**	ug/L	1.0	0.41	1		11/17/22 16:28	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 16:28	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 16:28	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 16:28	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 16:28	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/17/22 16:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/17/22 16:28	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/17/22 16:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: MW-18 **Lab ID: 40254772012** Collected: 11/14/22 14:27 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:27	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:27	74-85-1	
Methane	**1.5J**	ug/L	2.8	0.58	1		11/18/22 12:27	74-82-8	B
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**33.2J**	ug/L	100	29.6	1		11/16/22 14:00	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**62.1**	ug/L	1.0	0.41	1		11/17/22 16:48	127-18-4	
Trichloroethene	**0.69J**	ug/L	1.0	0.32	1		11/17/22 16:48	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 16:48	75-01-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.47	1		11/17/22 16:48	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 16:48	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/17/22 16:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/17/22 16:48	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/17/22 16:48	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**23.1**	mg/L	2.0	0.44	1		11/17/22 03:15	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.9**	mg/L	0.50	0.14	1		11/22/22 00:41	7440-44-0	

Sample: DUP- 1 **Lab ID: 40254772013** Collected: 11/14/22 00:00 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**37.4**	ug/L	1.0	0.41	1		11/17/22 17:07	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 17:07	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 17:07	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 17:07	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 17:07	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/17/22 17:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/17/22 17:07	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/17/22 17:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Sample: TRIP BLANK **Lab ID: 40254772014** Collected: 11/14/22 00:00 Received: 11/15/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/17/22 12:15	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/17/22 12:15	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/17/22 12:15	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/17/22 12:15	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/17/22 12:15	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/17/22 12:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/17/22 12:15	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		11/17/22 12:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

QC Batch: 431923
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

METHOD BLANK: 2487167 Matrix: Water
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	11/18/22 10:29	
Ethene	ug/L	<0.25	5.0	11/18/22 10:29	
Methane	ug/L	0.76J	2.8	11/18/22 10:29	

LABORATORY CONTROL SAMPLE & LCSD: 2487168 2487169

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.7	52.2	98	97	74-120	1	20	
Ethene	ug/L	50	49.6	48.8	99	98	71-122	2	20	
Methane	ug/L	28.6	29.0	28.6	101	100	73-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2487959 2487960

Parameter	Units	40254808003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.3	50.8	92	95	70-120	3	20	
Ethene	ug/L	5.0J	50	50	51.2	52.3	92	95	68-122	2	20	
Methane	ug/L	42.3	28.6	28.6	68.6	71.7	92	103	10-200	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

QC Batch: 431665
QC Batch Method: EPA 6010D
Analysis Method: EPA 6010D
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

METHOD BLANK: 2485729 Matrix: Water
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	11/16/22 13:39	

LABORATORY CONTROL SAMPLE: 2485730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2485731 2485732

Parameter	Units	40254772004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	68.3J	10000	10000	10100	10100	100	100	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

QC Batch: 431627 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254772001, 40254772002, 40254772003, 40254772004, 40254772005, 40254772006, 40254772007, 40254772008, 40254772009, 40254772010, 40254772011, 40254772012, 40254772013, 40254772014

METHOD BLANK: 2485526 Matrix: Water
Associated Lab Samples: 40254772001, 40254772002, 40254772003, 40254772004, 40254772005, 40254772006, 40254772007, 40254772008, 40254772009, 40254772010, 40254772011, 40254772012, 40254772013, 40254772014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/17/22 08:40	
Tetrachloroethene	ug/L	<0.41	1.0	11/17/22 08:40	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/17/22 08:40	
Trichloroethene	ug/L	<0.32	1.0	11/17/22 08:40	
Vinyl chloride	ug/L	<0.17	1.0	11/17/22 08:40	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	11/17/22 08:40	
4-Bromofluorobenzene (S)	%	98	70-130	11/17/22 08:40	
Toluene-d8 (S)	%	100	70-130	11/17/22 08:40	

LABORATORY CONTROL SAMPLE: 2485527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
Tetrachloroethene	ug/L	50	59.0	118	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
Trichloroethene	ug/L	50	50.1	100	70-130	
Vinyl chloride	ug/L	50	44.2	88	63-134	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

QC Batch: 431585 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

METHOD BLANK: 2485375 Matrix: Water
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	11/16/22 20:49	

LABORATORY CONTROL SAMPLE: 2485376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2485377 2485378

Parameter	Units	40254277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	218	400	400	633	626	104	102	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2485379 2485380

Parameter	Units	40254438001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	48.4	100	100	151	153	102	104	90-110	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

QC Batch: 432100 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

METHOD BLANK: 2488501 Matrix: Water
Associated Lab Samples: 40254772004, 40254772006, 40254772007, 40254772012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.15J	0.50	11/21/22 22:43	

LABORATORY CONTROL SAMPLE: 2488502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2488503 2488504

Parameter	Units	40254772004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	6	6	7.7	7.9	95	97	80-120	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02 LRI
Pace Project No.: 40254772

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40254772004	**MW-17**	EPA 8015B Modified	431923		
40254772006	**MW-13**	EPA 8015B Modified	431923		
40254772007	**MW-12**	EPA 8015B Modified	431923		
40254772012	**MW-18**	EPA 8015B Modified	431923		
40254772004	**MW-17**	EPA 6010D	431665		
40254772006	**MW-13**	EPA 6010D	431665		
40254772007	**MW-12**	EPA 6010D	431665		
40254772012	**MW-18**	EPA 6010D	431665		
40254772001	**MW-20**	EPA 8260	431627		
40254772002	**MW-21**	EPA 8260	431627		
40254772003	**MW-19**	EPA 8260	431627		
40254772004	**MW-17**	EPA 8260	431627		
40254772005	**MW-16**	EPA 8260	431627		
40254772006	**MW-13**	EPA 8260	431627		
40254772007	**MW-12**	EPA 8260	431627		
40254772008	**PZ- 3**	EPA 8260	431627		
40254772009	**MW- 5**	EPA 8260	431627		
40254772010	**MW- 2**	EPA 8260	431627		
40254772011	**MW-14**	EPA 8260	431627		
40254772012	**MW-18**	EPA 8260	431627		
40254772013	**DUP- 1**	EPA 8260	431627		
40254772014	**TRIP BLANK**	EPA 8260	431627		
40254772004	**MW-17**	EPA 300.0	431585		
40254772006	**MW-13**	EPA 300.0	431585		
40254772007	**MW-12**	EPA 300.0	431585		
40254772012	**MW-18**	EPA 300.0	431585		
40254772004	**MW-17**	SM 5310C	432100		
40254772006	**MW-13**	SM 5310C	432100		
40254772007	**MW-12**	SM 5310C	432100		
40254772012	**MW-18**	SM 5310C	432100		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40254772

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: AP@gza.com
Address: 17975 W Sarah Lane, Brookfield	
Report To: Sheryl.Stephenson@gza.com	Email To: SAME
Copy To: Kevin.Hedinger@gza.com	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.02	State: WI County/City: Oconomowoc Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 2622021716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Iron

Container Preservative Type **: 3 3 4 2 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOCs	MIE/E	Sulfate	TOC	Diss Fe	Lab Profile/Line
MW-20	GW	Grab			11/14/22	10:28		3	X					001
MW-21	GW	Grab			11/14/22	1031		3	X					002
MW-19	GW	Grab			11/14/22	11:11		3	X					003
MW-17	GW	Grab			11/14/22	1156		9	X	X	X	X	X	004
MW-16	GW	Grab			11/14/22	12:06		3	X					005
MW-13	GW	Grab			11/14/22	1305		9	X	X	X	X	X	006
MW-12	GW	Grab			11/14/22	12:49		9	X	X	X	X	X	007
PZ-3	GW	Grab			11/14/22	1239		3	X					008
MW-5	GW	Grab			11/14/22	1335		3	X					009
MW-2	GW	Grab			11/14/22	1337		3	X					010

Lab Profile/Line: 40254772

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Blue Sleeve

11/15/22

Radchem sample(s) screened (<500 cpm): Y N

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2782356

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	11/14/22 1630	CS logistics	11/14/22 1630
CS logistics	11/15/22 800		11/15/22 800

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40254772

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: AP@gza.com
Address: 17975 W Sarah Lane, Brookfield	Container Preservative Type ** 3 3 4 2 1
Report To: Sheryl.Stepherson@gza.com	Email To: SAME
Copy To: Kevin.Hedinger@gza.com	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.02	State: WI County/City: Ononowoc Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 2622021716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stepherson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive. [ ] Hold	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Fe

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	CVOCs	MEE	Sulfate	TOC	Diss Fe	Lab Sample # / Comments
MW-14	GW	Grab			11/14/22	1409		3	X					011
MW-18	GW	Grab			11/14/22	1427		9	X	X	X	X	X	012
~~MW-15~~	~~GW~~	~~Grab~~			~~11/14/22~~									
DUP-1	GW	Grab			11/14/22			3	X					013
(1) Trip blank														014

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A	Lab Sample Temperature Info: Temp Blank Received: Y N NA
	Packing Material Used:	Lab Tracking #: 2782355	Therm ID#: _____ Cooler 1 Temp Upon Receipt: ____oC Cooler 1 Therm Corr. Factor: ____oC Cooler 1 Corrected Temp: ____oC Comments:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	11/14/22 1630	CS logistics	11/14/22 1630
CS logistics	11/15/22 800		11/15/22 800

MTJL LAB USE ONLY: Table #: Acctnum: Template: Prelogin: PM: PB:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): YES / NO

(1) Trip blank received in shipment and added to COC by lab 11/15/22 mp

Sample Preservation Receipt Form

Client Name: GZA Project # 40254772

All containers needing preservation have been checked and noted below. ☒Yes ☐No ☐N/A Initial when completed MP Date/ Time:

Lab Lot# of pH paper: 1050722 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3																	2.5 / 5
002																	3																	2.5 / 5
003																	3																	2.5 / 5
004				1				1			1						6																X		2.5 / 5
005																	3																		2.5 / 5
006				1				1			1						6																X		2.5 / 5
007				1				1			1						6																X		2.5 / 5
008																	3																		2.5 / 5
009																	3																		2.5 / 5
010																	3																		2.5 / 5
011																	3																		2.5 / 5
012				1				1			1					(2)	3																X		2.5 / 5
013																	3																		2.5 / 5
014																	1																		2.5 / 5
015																																			2.5 / 5
016																																			2.5 / 5
017																																			2.5 / 5
018																																			2.5 / 5
019																																			2.5 / 5
020																																			2.5 / 5

11/5/22 up

11/5/22 up

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40254772

40254772

Client Name: GZA

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: ~~5092~~ 111522 MP

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 110 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: — /Corr 0°

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice

Person examining contents:
Date: 11/15/22 Initials: MP
Labeled By Initials: SG

Chain of Custody Present.	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out.	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time.	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume. For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WW	☒Yes ☐No ☐N/A	12. 3/6 V6 9H no times 11/15/22 MP
Trip Blank Present:	☒Yes ☐No ~~☒N/A~~	13. Added to COC 11/15/22 MP
Trip Blank Custody Seals Present	☒Yes ☐No 11/15/22 MP ☐N/A	
Pace Trip Blank Lot # (if purchased): 492		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 28, 2022

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40254841001	**MW-15**	Water	11/15/22 08:55	11/16/22 08:20
40254841002	**MW-6**	Water	11/15/22 12:06	11/16/22 08:20
40254841003	**MW-7**	Water	11/15/22 11:06	11/16/22 08:20
40254841004	**PZ-1**	Water	11/15/22 10:00	11/16/22 08:20
40254841005	**MW-1**	Water	11/15/22 09:29	11/16/22 08:20
40254841006	**MW-4**	Water	11/15/22 08:51	11/16/22 08:20
40254841007	**MW-3**	Water	11/15/22 09:29	11/16/22 08:20
40254841008	**MW-8**	Water	11/15/22 10:16	11/16/22 08:20
40254841009	**MW-10**	Water	11/15/22 11:57	11/16/22 08:20
40254841010	**MW-11**	Water	11/15/22 12:32	11/16/22 08:20
40254841011	**MW-9**	Water	11/15/22 11:31	11/16/22 08:20
40254841012	**DUP-2**	Water	11/15/22 00:00	11/16/22 08:20
40254841013	**TRIP BLANK**	Water	11/15/22 00:00	11/16/22 08:20

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40254841001	**MW-15**	EPA 8260	CXJ	8	PASI-G
40254841002	**MW-6**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254841003	**MW-7**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254841004	**PZ-1**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254841005	**MW-1**	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TMK	1	PASI-G
40254841006	**MW-4**	EPA 8260	CXJ	8	PASI-G
40254841007	**MW-3**	EPA 8260	CXJ	8	PASI-G
40254841008	**MW-8**	EPA 8260	CXJ	8	PASI-G
40254841009	**MW-10**	EPA 8260	CXJ	8	PASI-G
40254841010	**MW-11**	EPA 8260	CXJ	8	PASI-G
40254841011	**MW-9**	EPA 8260	CXJ	8	PASI-G
40254841012	**DUP-2**	EPA 8260	CXJ	8	PASI-G
40254841013	**TRIP BLANK**	EPA 8260	CXJ	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40254841001	**MW-15**					
EPA 8260	Tetrachloroethene	0.60J	ug/L	1.0	11/21/22 11:38	
40254841002	**MW-6**					
EPA 8015B Modified	Methane	3000	ug/L	70.0	11/18/22 17:32	
EPA 6010D	Iron, Dissolved	21500	ug/L	100	11/18/22 20:37	
EPA 8260	Vinyl chloride	6.3	ug/L	1.0	11/21/22 11:55	
EPA 8260	cis-1,2-Dichloroethene	252	ug/L	1.0	11/21/22 11:55	
EPA 8260	trans-1,2-Dichloroethene	0.70J	ug/L	1.0	11/21/22 11:55	M1
SM 5310C	Total Organic Carbon	107	mg/L	15.0	11/22/22 00:58	
40254841003	**MW-7**					
EPA 8015B Modified	Methane	762	ug/L	28.0	11/18/22 17:39	
EPA 6010D	Iron, Dissolved	619	ug/L	100	11/18/22 20:40	
EPA 8260	Tetrachloroethene	34.3	ug/L	1.0	11/22/22 11:37	
EPA 8260	Trichloroethene	2.7	ug/L	1.0	11/22/22 11:37	
EPA 8260	cis-1,2-Dichloroethene	11.4	ug/L	1.0	11/22/22 11:37	
EPA 300.0	Sulfate	19.5	mg/L	2.0	11/27/22 13:07	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.5	11/22/22 01:11	B
40254841004	**PZ-1**					
EPA 8015B Modified	Methane	5430	ug/L	280	11/18/22 16:44	
EPA 6010D	Iron, Dissolved	9340	ug/L	100	11/18/22 20:42	
EPA 300.0	Sulfate	5.6J	mg/L	10.0	11/27/22 13:22	D3
SM 5310C	Total Organic Carbon	35.1	mg/L	1.5	11/22/22 01:48	
40254841005	**MW-1**					
EPA 8015B Modified	Methane	4680	ug/L	280	11/18/22 16:51	
EPA 6010D	Iron, Dissolved	9600	ug/L	100	11/18/22 20:45	
EPA 8260	Tetrachloroethene	1.4	ug/L	1.0	11/21/22 12:47	
EPA 8260	Trichloroethene	0.55J	ug/L	1.0	11/21/22 12:47	
EPA 8260	cis-1,2-Dichloroethene	10.2	ug/L	1.0	11/21/22 12:47	
EPA 300.0	Sulfate	5.6J	mg/L	10.0	11/27/22 13:37	D3
SM 5310C	Total Organic Carbon	20.6	mg/L	1.5	11/22/22 02:06	
40254841008	**MW-8**					
EPA 8260	Tetrachloroethene	12.2	ug/L	1.0	11/21/22 13:39	
40254841009	**MW-10**					
EPA 8260	Tetrachloroethene	7.9	ug/L	1.0	11/21/22 13:56	
EPA 8260	Trichloroethene	0.39J	ug/L	1.0	11/21/22 13:56	
40254841010	**MW-11**					
EPA 8260	Tetrachloroethene	26.8	ug/L	1.0	11/21/22 14:14	
EPA 8260	Trichloroethene	1.4	ug/L	1.0	11/21/22 14:14	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	11/21/22 14:14	
40254841011	**MW-9**					
EPA 8260	Tetrachloroethene	108	ug/L	1.0	11/21/22 14:31	
EPA 8260	Trichloroethene	11.1	ug/L	1.0	11/21/22 14:31	
EPA 8260	cis-1,2-Dichloroethene	14.0	ug/L	1.0	11/21/22 14:31	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40254841011	**MW-9**					
EPA 8260	trans-1,2-Dichloroethene	2.3	ug/L	1.0	11/21/22 14:31	
40254841012	**DUP-2**					
EPA 8260	Tetrachloroethene	13.5	ug/L	1.0	11/21/22 14:48	

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: MW-15 **Lab ID: 40254841001** Collected: 11/15/22 08:55 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**0.60J**	ug/L	1.0	0.41	1		11/21/22 11:38	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 11:38	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 11:38	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 11:38	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 11:38	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/21/22 11:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/21/22 11:38	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/21/22 11:38	2037-26-5	

Sample: MW-6 **Lab ID: 40254841002** Collected: 11/15/22 12:06 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:34	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:34	74-85-1	
Methane	**3000**	ug/L	70.0	14.4	25		11/18/22 17:32	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**21500**	ug/L	100	29.6	1		11/18/22 20:37	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/21/22 11:55	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 11:55	79-01-6	
Vinyl chloride	**6.3**	ug/L	1.0	0.17	1		11/21/22 11:55	75-01-4	
cis-1,2-Dichloroethene	**252**	ug/L	1.0	0.47	1		11/21/22 11:55	156-59-2	
trans-1,2-Dichloroethene	**0.70J**	ug/L	1.0	0.53	1		11/21/22 11:55	156-60-5	M1
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/21/22 11:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/21/22 11:55	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/21/22 11:55	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		11/27/22 12:22	14808-79-8	D3,M0
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**107**	mg/L	15.0	4.2	30		11/22/22 00:58	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: MW-7 **Lab ID: 40254841003** Collected: 11/15/22 11:06 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:41	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:41	74-85-1	
Methane	**762**	ug/L	28.0	5.8	10		11/18/22 17:39	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**619**	ug/L	100	29.6	1		11/18/22 20:40	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**34.3**	ug/L	1.0	0.41	1		11/22/22 11:37	127-18-4	
Trichloroethene	**2.7**	ug/L	1.0	0.32	1		11/22/22 11:37	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/22/22 11:37	75-01-4	
cis-1,2-Dichloroethene	**11.4**	ug/L	1.0	0.47	1		11/22/22 11:37	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/22/22 11:37	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/22/22 11:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/22/22 11:37	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/22/22 11:37	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**19.5**	mg/L	2.0	0.44	1		11/27/22 13:07	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.5**	mg/L	1.5	0.42	3		11/22/22 01:11	7440-44-0	B

Sample: PZ-1 **Lab ID: 40254841004** Collected: 11/15/22 10:00 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:48	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:48	74-85-1	
Methane	**5430**	ug/L	280	57.6	100		11/18/22 16:44	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**9340**	ug/L	100	29.6	1		11/18/22 20:42	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: PZ-1 **Lab ID: 40254841004** Collected: 11/15/22 10:00 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/21/22 12:30	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 12:30	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 12:30	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 12:30	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 12:30	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/21/22 12:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/21/22 12:30	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/21/22 12:30	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**5.6J**	mg/L	10.0	2.2	5		11/27/22 13:22	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**35.1**	mg/L	1.5	0.42	3		11/22/22 01:48	7440-44-0	

Sample: MW-1 **Lab ID: 40254841005** Collected: 11/15/22 09:29 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		11/18/22 12:55	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		11/18/22 12:55	74-85-1	
Methane	**4680**	ug/L	280	57.6	100		11/18/22 16:51	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**9600**	ug/L	100	29.6	1		11/18/22 20:45	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**1.4**	ug/L	1.0	0.41	1		11/21/22 12:47	127-18-4	
Trichloroethene	**0.55J**	ug/L	1.0	0.32	1		11/21/22 12:47	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 12:47	75-01-4	
cis-1,2-Dichloroethene	**10.2**	ug/L	1.0	0.47	1		11/21/22 12:47	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 12:47	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/21/22 12:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/21/22 12:47	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/21/22 12:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: MW-1 **Lab ID: 40254841005** Collected: 11/15/22 09:29 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**5.6J**	mg/L	10.0	2.2	5		11/27/22 13:37	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**20.6**	mg/L	1.5	0.42	3		11/22/22 02:06	7440-44-0	

Sample: MW-4 **Lab ID: 40254841006** Collected: 11/15/22 08:51 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/21/22 13:04	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 13:04	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 13:04	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 13:04	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 13:04	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/21/22 13:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/21/22 13:04	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/21/22 13:04	2037-26-5	

Sample: MW-3 **Lab ID: 40254841007** Collected: 11/15/22 09:29 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/21/22 13:22	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 13:22	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 13:22	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 13:22	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 13:22	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/21/22 13:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/21/22 13:22	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/21/22 13:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: MW-8 **Lab ID: 40254841008** Collected: 11/15/22 10:16 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**12.2**	ug/L	1.0	0.41	1		11/21/22 13:39	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 13:39	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 13:39	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 13:39	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 13:39	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/21/22 13:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 13:39	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/21/22 13:39	2037-26-5	

Sample: MW-10 **Lab ID: 40254841009** Collected: 11/15/22 11:57 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**7.9**	ug/L	1.0	0.41	1		11/21/22 13:56	127-18-4	
Trichloroethene	**0.39J**	ug/L	1.0	0.32	1		11/21/22 13:56	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 13:56	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 13:56	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 13:56	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/21/22 13:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/21/22 13:56	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/21/22 13:56	2037-26-5	

Sample: MW-11 **Lab ID: 40254841010** Collected: 11/15/22 12:32 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**26.8**	ug/L	1.0	0.41	1		11/21/22 14:14	127-18-4	
Trichloroethene	**1.4**	ug/L	1.0	0.32	1		11/21/22 14:14	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 14:14	75-01-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.47	1		11/21/22 14:14	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 14:14	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/21/22 14:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/21/22 14:14	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/21/22 14:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Sample: MW-9 **Lab ID: 40254841011** Collected: 11/15/22 11:31 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**108**	ug/L	1.0	0.41	1		11/21/22 14:31	127-18-4	
Trichloroethene	**11.1**	ug/L	1.0	0.32	1		11/21/22 14:31	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 14:31	75-01-4	
cis-1,2-Dichloroethene	**14.0**	ug/L	1.0	0.47	1		11/21/22 14:31	156-59-2	
trans-1,2-Dichloroethene	**2.3**	ug/L	1.0	0.53	1		11/21/22 14:31	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/21/22 14:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/21/22 14:31	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/21/22 14:31	2037-26-5	

Sample: DUP-2 **Lab ID: 40254841012** Collected: 11/15/22 00:00 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**13.5**	ug/L	1.0	0.41	1		11/21/22 14:48	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 14:48	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 14:48	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 14:48	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 14:48	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/21/22 14:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		11/21/22 14:48	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		11/21/22 14:48	2037-26-5	

Sample: TRIP BLANK **Lab ID: 40254841013** Collected: 11/15/22 00:00 Received: 11/16/22 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		11/21/22 11:03	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		11/21/22 11:03	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/21/22 11:03	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		11/21/22 11:03	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		11/21/22 11:03	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/21/22 11:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		11/21/22 11:03	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/21/22 11:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

QC Batch: 431923 | Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified | Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

METHOD BLANK: 2487167 Matrix: Water
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	11/18/22 10:29	
Ethene	ug/L	<0.25	5.0	11/18/22 10:29	
Methane	ug/L	0.76J	2.8	11/18/22 10:29	

LABORATORY CONTROL SAMPLE & LCSD: 2487168 2487169

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.7	52.2	98	97	74-120	1	20	
Ethene	ug/L	50	49.6	48.8	99	98	71-122	2	20	
Methane	ug/L	28.6	29.0	28.6	101	100	73-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2487959 2487960

Parameter	Units	40254808003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.3	50.8	92	95	70-120	3	20	
Ethene	ug/L	5.0J	50	50	51.2	52.3	92	95	68-122	2	20	
Methane	ug/L	42.3	28.6	28.6	68.6	71.7	92	103	10-200	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

QC Batch: 431965
QC Batch Method: EPA 6010D
Analysis Method: EPA 6010D
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

METHOD BLANK: 2487651 Matrix: Water
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	11/18/22 20:15	

LABORATORY CONTROL SAMPLE: 2487652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10200	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2487653 2487654

Parameter	Units	40254839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	8510	10000	10000	19400	19000	109	105	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

QC Batch: 431734 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254841001, 40254841002, 40254841003, 40254841004, 40254841005, 40254841006, 40254841007, 40254841008, 40254841009, 40254841010, 40254841011, 40254841012, 40254841013

METHOD BLANK: 2486267 Matrix: Water
Associated Lab Samples: 40254841001, 40254841002, 40254841003, 40254841004, 40254841005, 40254841006, 40254841007, 40254841008, 40254841009, 40254841010, 40254841011, 40254841012, 40254841013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/21/22 07:54	
Tetrachloroethene	ug/L	<0.41	1.0	11/21/22 07:54	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/21/22 07:54	
Trichloroethene	ug/L	<0.32	1.0	11/21/22 07:54	
Vinyl chloride	ug/L	<0.17	1.0	11/21/22 07:54	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	11/21/22 07:54	
4-Bromofluorobenzene (S)	%	104	70-130	11/21/22 07:54	
Toluene-d8 (S)	%	101	70-130	11/21/22 07:54	

LABORATORY CONTROL SAMPLE: 2486268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.9	114	70-130	
Trichloroethene	ug/L	50	55.2	110	70-130	
Vinyl chloride	ug/L	50	46.1	92	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2487559 2487560

Parameter	Units	40254841002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/L	<0.41	50	50	49.0	48.4	98	97	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	0.70J	50	50	68.8	67.9	136	134	70-130	1	20	M1
Trichloroethene	ug/L	<0.32	50	50	53.7	53.9	107	108	70-130	0	20	
Vinyl chloride	ug/L	6.3	50	50	52.0	52.6	91	93	60-137	1	20	
1,2-Dichlorobenzene-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						106	107	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

QC Batch: 432219 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

METHOD BLANK: 2488995 Matrix: Water
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	11/27/22 11:53	

LABORATORY CONTROL SAMPLE: 2488996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.5	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2488997 2488998

Parameter	Units	40254841002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<2.2	100	100	112	109	111	108	90-110	3	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2488999 2489000

Parameter	Units	40254553001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	56.1	400	400	458	458	101	100	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

QC Batch: 432100 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

METHOD BLANK: 2488501 Matrix: Water
Associated Lab Samples: 40254841002, 40254841003, 40254841004, 40254841005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.15J	0.50	11/21/22 22:43	

LABORATORY CONTROL SAMPLE: 2488502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2488503 2488504

Parameter	Units	40254772004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	6	6	7.7	7.9	95	97	80-120	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.02 LRI
Pace Project No.: 40254841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40254841002	**MW-6**	EPA 8015B Modified	431923		
40254841003	**MW-7**	EPA 8015B Modified	431923		
40254841004	**PZ-1**	EPA 8015B Modified	431923		
40254841005	**MW-1**	EPA 8015B Modified	431923		
40254841002	**MW-6**	EPA 6010D	431965		
40254841003	**MW-7**	EPA 6010D	431965		
40254841004	**PZ-1**	EPA 6010D	431965		
40254841005	**MW-1**	EPA 6010D	431965		
40254841001	**MW-15**	EPA 8260	431734		
40254841002	**MW-6**	EPA 8260	431734		
40254841003	**MW-7**	EPA 8260	431734		
40254841004	**PZ-1**	EPA 8260	431734		
40254841005	**MW-1**	EPA 8260	431734		
40254841006	**MW-4**	EPA 8260	431734		
40254841007	**MW-3**	EPA 8260	431734		
40254841008	**MW-8**	EPA 8260	431734		
40254841009	**MW-10**	EPA 8260	431734		
40254841010	**MW-11**	EPA 8260	431734		
40254841011	**MW-9**	EPA 8260	431734		
40254841012	**DUP-2**	EPA 8260	431734		
40254841013	**TRIP BLANK**	EPA 8260	431734		
40254841002	**MW-6**	EPA 300.0	432219		
40254841003	**MW-7**	EPA 300.0	432219		
40254841004	**PZ-1**	EPA 300.0	432219		
40254841005	**MW-1**	EPA 300.0	432219		
40254841002	**MW-6**	SM 5310C	432100		
40254841003	**MW-7**	SM 5310C	432100		
40254841004	**PZ-1**	SM 5310C	432100		
40254841005	**MW-1**	SM 5310C	432100		

(Please Print Clearly)

Company Name:	GZA GeoEnvironmental
Branch/Location:	Brookfield
Project Contact:	Kevin Hedinger
Phone:	262-424-1761
Project Number:	~~20.0155935.01~~ 20.0156045.02
Project Name:	~~Trent Tube~~ LR1
Project State:	WI
Sampled By (Print):	Sheryl Stephenson
Sampled By (Sign):	
PO #:	Regulatory Program:

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

COC No. 4025484[illegible]

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	-
Mail To Contact:	Kevin Hedinger
Mail To Company:	GZA
Mail To Address:	17975 West Sarah Lane, Suite 100, Brookfield, WI 53045
Invoice To Contact:	AP
Invoice To Company:	GZA
Invoice To Address:	17975 West Sarah Lane, Suite 100, Brookfield, WI 53045
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water
B = Biota, DW = Drinking Water
C = Charcoal, GW = Ground Water
O = Oil, SW = Surface Water
S = Soil, WW = Waste Water
SI = Sludge, WP = Wipe

FILTERED? (YES/NO) PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	N	Y	N	N	N				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Pick Letter	B	D	B	A	C										
	Analyses Requested	~~EVOC~~ CVOC	Dissolved Fe	Ethane, Ethene, Methane	Sulfate, ~~alkalinity, Nitrate~~	TOC										
001	MW-15	11/15/22	0855	GW	X										MW-6 effervesed	
002	MW-6	11/15/22	1206	GW	X	X	X	X	X						on sampling.	
003	MW-7	11/15/22	1106	GW	X	X	X	X	X							
004	PZ-1	11/15/22	1000	GW	X	X	X	X	X							
005	MW-1	11/15/22	0929	GW	X	X	X	X	X							
006	MW-4	11/15/22	0851	GW	X											
007	MW-3	11/15/22	0929	GW	X											
008	MW-8	11/15/22	1016	GW	X											
009	MW-10	11/15/22	1157	GW	X											
010	MW-11	11/15/22	1232	GW	X											
011	MW-9	11/15/22	1131	GW	X											
012	DUP-2	11/15/22	—	GW	X											
013	Trip blank			~~GW~~											Received in Shipment - lab added to COC	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/15/22 13:00	CS logistics	15:00 11/15/22
CS logistics	11/16/22 0820	[signature]	11/16/22 0820

PACE Project No.
4025484[illegible]

Receipt Temp = 3.5 °C

Sample Receipt pH
(OK) / Adjusted

Cooler Custody Seal
Present / (Not Present)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Sample Preservation Receipt Form

Client Name: GZA Project # 40254841

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: VP Date/ Time:

Lab Lot# of pH paper: 10200722 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3																	2.5 / 5
002				1					1		1						6																X		2.5 / 5
003				1					1		1						6																X		2.5 / 5
004				1					1		1						6																X		2.5 / 5
005				1					1		1						6																X		2.5 / 5
006																	3																		2.5 / 5
007																	3																		2.5 / 5
008																	3																		2.5 / 5
009																	3																		2.5 / 5
010																	3																		2.5 / 5
011																	3																		2.5 / 5
012																	3																		2.5 / 5
013																	1																		2.5 / 5
014																																			2.5 / 5
015																																			2.5 / 5
016																																			2.5 / 5
017																																			2.5 / 5
018																																			2.5 / 5
019																																			2.5 / 5
020																																			2.5 / 5

VP 11/10/22

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☑No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40254841

40254841

Client Name: GZA

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: —

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 190 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.5

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 11/16/22 /Initials: TP

Labeled By Initials: SKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. 003 time "1127"
-Includes date/time/ID/Analysis Matrix: W		TP 11/16/22
Trip Blank Present:	☑Yes ☐No ☐N/A	13. received in shipment lab added
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	to COC
Pace Trip Blank Lot # (if purchased): 4906		TP 11/16/22

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 04, 2023

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.00
Pace Project No.: 40259895

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko for
Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.00
Pace Project No.: 40259895

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.00
Pace Project No.: 40259895

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40259895001	**MW-8**	Water	03/27/23 11:19	03/28/23 08:25
40259895002	**MW-7**	Water	03/27/23 11:56	03/28/23 08:25
40259895003	**MW-6**	Water	03/27/23 12:39	03/28/23 08:25
40259895004	**MW-11**	Water	03/27/23 13:23	03/28/23 08:25
40259895005	**MW-9**	Water	03/27/23 14:01	03/28/23 08:25
40259895006	**PZ-2**	Water	03/27/23 14:22	03/28/23 08:25
40259895007	**MW-10**	Water	03/27/23 14:51	03/28/23 08:25
40259895008	**MW-20**	Water	03/27/23 12:00	03/28/23 08:25
40259895009	**MW-21**	Water	03/27/23 11:15	03/28/23 08:25
40259895010	**MW-19**	Water	03/27/23 12:40	03/28/23 08:25
40259895011	**MW-17**	Water	03/27/23 13:30	03/28/23 08:25
40259895012	**MW-16**	Water	03/27/23 14:15	03/28/23 08:25
40259895013	**MW-18**	Water	03/27/23 15:05	03/28/23 08:25
40259895014	**DUP-1**	Water	03/27/23 00:00	03/28/23 08:25
40259895015	**TRIP**	Water	03/27/23 00:00	03/28/23 08:25

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 20.0156045.00
Pace Project No.: 40259895

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40259895001	**MW-8**	EPA 8260	EIB	8	PASI-G
40259895002	**MW-7**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259895003	**MW-6**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259895004	**MW-11**	EPA 8260	EIB	8	PASI-G
40259895005	**MW-9**	EPA 8260	EIB	8	PASI-G
40259895006	**PZ-2**	EPA 8260	EIB	8	PASI-G
40259895007	**MW-10**	EPA 8260	EIB	8	PASI-G
40259895008	**MW-20**	EPA 8260	EIB	8	PASI-G
40259895009	**MW-21**	EPA 8260	EIB	8	PASI-G
40259895010	**MW-19**	EPA 8260	EIB	8	PASI-G
40259895011	**MW-17**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259895012	**MW-16**	EPA 8260	EIB	8	PASI-G
40259895013	**MW-18**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	EIB	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259895014	**DUP-1**	EPA 8260	EIB	8	PASI-G
40259895015	**TRIP**	EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.00
Pace Project No.: 40259895

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40259895001	**MW-8**					
EPA 8260	Tetrachloroethene	4.9	ug/L	1.0	03/29/23 19:22	
40259895002	**MW-7**					
EPA 8015B Modified	Methane	463	ug/L	14.0	04/03/23 17:35	
EPA 8260	Tetrachloroethene	13.4	ug/L	1.0	03/29/23 19:43	
EPA 8260	Trichloroethene	0.83J	ug/L	1.0	03/29/23 19:43	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	03/29/23 19:43	
EPA 300.0	Sulfate	26.0	mg/L	2.0	03/31/23 19:51	
SM 5310C	Total Organic Carbon	1.1	mg/L	0.50	03/31/23 03:29	
40259895003	**MW-6**					
EPA 8015B Modified	Methane	6830	ug/L	280	04/03/23 17:42	
EPA 6010D	Iron, Dissolved	16600	ug/L	100	03/29/23 12:11	
EPA 8260	Vinyl chloride	3.2	ug/L	1.0	03/29/23 20:04	
EPA 8260	cis-1,2-Dichloroethene	178	ug/L	1.0	03/29/23 20:04	
SM 5310C	Total Organic Carbon	48.4	mg/L	7.5	03/31/23 04:20	
40259895004	**MW-11**					
EPA 8260	Tetrachloroethene	15.8	ug/L	1.0	03/30/23 13:33	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	03/30/23 13:33	
40259895005	**MW-9**					
EPA 8260	Tetrachloroethene	97.3	ug/L	1.0	03/29/23 20:45	
EPA 8260	Trichloroethene	12.3	ug/L	1.0	03/29/23 20:45	
EPA 8260	cis-1,2-Dichloroethene	18.1	ug/L	1.0	03/29/23 20:45	
EPA 8260	trans-1,2-Dichloroethene	2.0	ug/L	1.0	03/29/23 20:45	
40259895006	**PZ-2**					
EPA 8260	Tetrachloroethene	0.56J	ug/L	1.0	03/30/23 12:51	
40259895007	**MW-10**					
EPA 8260	Tetrachloroethene	2.0	ug/L	1.0	03/29/23 21:26	
40259895008	**MW-20**					
EPA 8260	Tetrachloroethene	71.0	ug/L	1.0	03/29/23 21:47	
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	03/29/23 21:47	
EPA 8260	cis-1,2-Dichloroethene	3.0	ug/L	1.0	03/29/23 21:47	
40259895009	**MW-21**					
EPA 8260	Tetrachloroethene	50.7	ug/L	1.0	03/29/23 22:08	
40259895010	**MW-19**					
EPA 8260	Tetrachloroethene	9.0	ug/L	1.0	03/30/23 13:53	
40259895011	**MW-17**					
EPA 8015B Modified	Methane	291	ug/L	11.2	04/03/23 16:39	
EPA 8260	Tetrachloroethene	39.9	ug/L	1.0	03/29/23 22:28	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	03/29/23 22:28	
EPA 8260	cis-1,2-Dichloroethene	25.5	ug/L	1.0	03/29/23 22:28	
EPA 300.0	Sulfate	10.5	mg/L	2.0	03/31/23 20:50	
SM 5310C	Total Organic Carbon	2.5	mg/L	0.50	03/31/23 04:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 20.0156045.00
Pace Project No.: 40259895

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40259895012	**MW-16**					
EPA 8260	Tetrachloroethene	2.4	ug/L	1.0	03/30/23 13:12	
40259895013	**MW-18**					
EPA 8015B Modified	Methane	631	ug/L	28.0	04/03/23 16:46	
EPA 8260	Tetrachloroethene	51.4	ug/L	1.0	03/29/23 23:09	
EPA 8260	Trichloroethene	4.2	ug/L	1.0	03/29/23 23:09	
EPA 8260	cis-1,2-Dichloroethene	82.4	ug/L	1.0	03/29/23 23:09	
EPA 300.0	Sulfate	8.0	mg/L	2.0	03/31/23 21:05	
SM 5310C	Total Organic Carbon	1.8	mg/L	0.50	03/31/23 04:51	
40259895014	**DUP-1**					
EPA 8260	Vinyl chloride	2.3	ug/L	2.0	03/29/23 23:51	
EPA 8260	cis-1,2-Dichloroethene	166	ug/L	2.0	03/29/23 23:51	

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-8 **Lab ID: 40259895001** Collected: 03/27/23 11:19 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**4.9**	ug/L	1.0	0.41	1		03/29/23 19:22	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/29/23 19:22	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 19:22	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/29/23 19:22	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 19:22	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		03/29/23 19:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		03/29/23 19:22	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		03/29/23 19:22	2037-26-5	

Sample: MW-7 **Lab ID: 40259895002** Collected: 03/27/23 11:56 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:07	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:07	74-85-1	
Methane	**463**	ug/L	14.0	2.9	5		04/03/23 17:35	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		03/29/23 12:05	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**13.4**	ug/L	1.0	0.41	1		03/29/23 19:43	127-18-4	
Trichloroethene	**0.83J**	ug/L	1.0	0.32	1		03/29/23 19:43	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 19:43	75-01-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.47	1		03/29/23 19:43	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 19:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/29/23 19:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/29/23 19:43	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		03/29/23 19:43	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**26.0**	mg/L	2.0	0.44	1		03/31/23 19:51	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.1**	mg/L	0.50	0.14	1		03/31/23 03:29	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-6 **Lab ID: 40259895003** Collected: 03/27/23 12:39 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:14	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:14	74-85-1	
Methane	**6830**	ug/L	280	57.6	100		04/03/23 17:42	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**16600**	ug/L	100	29.6	1		03/29/23 12:11	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/29/23 20:04	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/29/23 20:04	79-01-6	
Vinyl chloride	**3.2**	ug/L	1.0	0.17	1		03/29/23 20:04	75-01-4	
cis-1,2-Dichloroethene	**178**	ug/L	1.0	0.47	1		03/29/23 20:04	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 20:04	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/29/23 20:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		03/29/23 20:04	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		03/29/23 20:04	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		03/31/23 20:35	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**48.4**	mg/L	7.5	2.1	15		03/31/23 04:20	7440-44-0	

Sample: MW-11 **Lab ID: 40259895004** Collected: 03/27/23 13:23 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**15.8**	ug/L	1.0	0.41	1		03/30/23 13:33	127-18-4	
Trichloroethene	**0.54J**	ug/L	1.0	0.32	1		03/30/23 13:33	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/30/23 13:33	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/30/23 13:33	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/30/23 13:33	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/30/23 13:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/30/23 13:33	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		03/30/23 13:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-9 **Lab ID: 40259895005** Collected: 03/27/23 14:01 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**97.3**	ug/L	1.0	0.41	1		03/29/23 20:45	127-18-4	
Trichloroethene	**12.3**	ug/L	1.0	0.32	1		03/29/23 20:45	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 20:45	75-01-4	
cis-1,2-Dichloroethene	**18.1**	ug/L	1.0	0.47	1		03/29/23 20:45	156-59-2	
trans-1,2-Dichloroethene	**2.0**	ug/L	1.0	0.53	1		03/29/23 20:45	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/29/23 20:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/29/23 20:45	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		03/29/23 20:45	2037-26-5	

Sample: PZ-2 **Lab ID: 40259895006** Collected: 03/27/23 14:22 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**0.56J**	ug/L	1.0	0.41	1		03/30/23 12:51	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/30/23 12:51	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/30/23 12:51	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/30/23 12:51	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/30/23 12:51	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/30/23 12:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		03/30/23 12:51	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		03/30/23 12:51	2037-26-5	

Sample: MW-10 **Lab ID: 40259895007** Collected: 03/27/23 14:51 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**2.0**	ug/L	1.0	0.41	1		03/29/23 21:26	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/29/23 21:26	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 21:26	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/29/23 21:26	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 21:26	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		03/29/23 21:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/29/23 21:26	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		03/29/23 21:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-20 **Lab ID: 40259895008** Collected: 03/27/23 12:00 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**71.0**	ug/L	1.0	0.41	1		03/29/23 21:47	127-18-4	
Trichloroethene	**0.34J**	ug/L	1.0	0.32	1		03/29/23 21:47	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 21:47	75-01-4	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	0.47	1		03/29/23 21:47	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 21:47	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/29/23 21:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/29/23 21:47	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		03/29/23 21:47	2037-26-5	

Sample: MW-21 **Lab ID: 40259895009** Collected: 03/27/23 11:15 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**50.7**	ug/L	1.0	0.41	1		03/29/23 22:08	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/29/23 22:08	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 22:08	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/29/23 22:08	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 22:08	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/29/23 22:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		03/29/23 22:08	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		03/29/23 22:08	2037-26-5	

Sample: MW-19 **Lab ID: 40259895010** Collected: 03/27/23 12:40 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**9.0**	ug/L	1.0	0.41	1		03/30/23 13:53	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/30/23 13:53	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/30/23 13:53	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/30/23 13:53	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/30/23 13:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/30/23 13:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/30/23 13:53	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		03/30/23 13:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-17 **Lab ID: 40259895011** Collected: 03/27/23 13:30 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:21	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:21	74-85-1	
Methane	**291**	ug/L	11.2	2.3	4		04/03/23 16:39	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		03/29/23 12:15	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**39.9**	ug/L	1.0	0.41	1		03/29/23 22:28	127-18-4	
Trichloroethene	**1.6**	ug/L	1.0	0.32	1		03/29/23 22:28	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 22:28	75-01-4	
cis-1,2-Dichloroethene	**25.5**	ug/L	1.0	0.47	1		03/29/23 22:28	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 22:28	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/29/23 22:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		03/29/23 22:28	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		03/29/23 22:28	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**10.5**	mg/L	2.0	0.44	1		03/31/23 20:50	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.5**	mg/L	0.50	0.14	1		03/31/23 04:35	7440-44-0	

Sample: MW-16 **Lab ID: 40259895012** Collected: 03/27/23 14:15 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**2.4**	ug/L	1.0	0.41	1		03/30/23 13:12	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/30/23 13:12	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/30/23 13:12	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/30/23 13:12	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/30/23 13:12	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/30/23 13:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		03/30/23 13:12	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		03/30/23 13:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: MW-18 **Lab ID: 40259895013** Collected: 03/27/23 15:05 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:28	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:28	74-85-1	
Methane	**631**	ug/L	28.0	5.8	10		04/03/23 16:46	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		03/29/23 12:18	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**51.4**	ug/L	1.0	0.41	1		03/29/23 23:09	127-18-4	
Trichloroethene	**4.2**	ug/L	1.0	0.32	1		03/29/23 23:09	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 23:09	75-01-4	
cis-1,2-Dichloroethene	**82.4**	ug/L	1.0	0.47	1		03/29/23 23:09	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 23:09	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/29/23 23:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/29/23 23:09	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		03/29/23 23:09	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**8.0**	mg/L	2.0	0.44	1		03/31/23 21:05	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**1.8**	mg/L	0.50	0.14	1		03/31/23 04:51	7440-44-0	

Sample: DUP-1 **Lab ID: 40259895014** Collected: 03/27/23 00:00 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.82**	ug/L	2.0	0.82	2		03/29/23 23:51	127-18-4	
Trichloroethene	**<0.64**	ug/L	2.0	0.64	2		03/29/23 23:51	79-01-6	
Vinyl chloride	**2.3**	ug/L	2.0	0.35	2		03/29/23 23:51	75-01-4	
cis-1,2-Dichloroethene	**166**	ug/L	2.0	0.94	2		03/29/23 23:51	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	2.0	1.1	2		03/29/23 23:51	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		2		03/29/23 23:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		2		03/29/23 23:51	2199-69-1	
Toluene-d8 (S)	99	%	70-130		2		03/29/23 23:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259895

Sample: TRIP **Lab ID: 40259895015** Collected: 03/27/23 00:00 Received: 03/28/23 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/29/23 17:18	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/29/23 17:18	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/29/23 17:18	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/29/23 17:18	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/29/23 17:18	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/29/23 17:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		03/29/23 17:18	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		03/29/23 17:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259895

QC Batch: 441357
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

METHOD BLANK: 2534557 Matrix: Water
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/03/23 10:54	
Ethene	ug/L	<0.25	5.0	04/03/23 10:54	
Methane	ug/L	<0.58	2.8	04/03/23 10:54	

LABORATORY CONTROL SAMPLE & LCSD: 2534558 2534559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	48.0	52.9	90	99	80-120	10	20	
Ethene	ug/L	50	44.8	49.1	90	98	80-120	9	20	
Methane	ug/L	28.6	25.1	28.2	88	99	80-120	12	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2534560 2534561

Parameter	Units	40259691009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.2	51.0	92	95	77-120	4	20	
Ethene	ug/L	<0.25	50	50	45.7	47.3	91	95	76-120	3	20	
Methane	ug/L	68.1	28.6	28.6	135	156	234	307	12-198	14	26	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259895

QC Batch: 441103 — Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D — Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

METHOD BLANK: 2532565 — Matrix: Water
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	03/29/23 12:01	

LABORATORY CONTROL SAMPLE: 2532566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532567 2532568

Parameter	Units	40259895002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<29.6	10000	10000	10400	10400	104	104	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259895

QC Batch: 441076
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259895001, 40259895002, 40259895003, 40259895004, 40259895005, 40259895006, 40259895007, 40259895008, 40259895009, 40259895010, 40259895011, 40259895012, 40259895013, 40259895014, 40259895015

METHOD BLANK: 2532445 Matrix: Water
Associated Lab Samples: 40259895001, 40259895002, 40259895003, 40259895004, 40259895005, 40259895006, 40259895007, 40259895008, 40259895009, 40259895010, 40259895011, 40259895012, 40259895013, 40259895014, 40259895015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	03/29/23 13:52	
Tetrachloroethene	ug/L	<0.41	1.0	03/29/23 13:52	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	03/29/23 13:52	
Trichloroethene	ug/L	<0.32	1.0	03/29/23 13:52	
Vinyl chloride	ug/L	<0.17	1.0	03/29/23 13:52	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130	03/29/23 13:52	
4-Bromofluorobenzene (S)	%	94	70-130	03/29/23 13:52	
Toluene-d8 (S)	%	98	70-130	03/29/23 13:52	

LABORATORY CONTROL SAMPLE: 2532446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.6	111	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
Vinyl chloride	ug/L	50	58.4	117	63-134	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532719 2532720

Parameter	Units	40259910002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	53.5	55.5	107	111	70-130	4	20	
Tetrachloroethene	ug/L	<0.41	50	50	52.5	56.2	105	112	70-130	7	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	60.6	60.4	121	121	70-130	0	20	
Trichloroethene	ug/L	<0.32	50	50	53.7	55.6	107	111	70-130	4	20	
Vinyl chloride	ug/L	<0.17	50	50	57.0	59.1	114	118	60-137	4	20	
1,2-Dichlorobenzene-d4 (S)	%						101	99	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Toluene-d8 (S)	%						99	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259895

QC Batch: 441210 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

METHOD BLANK: 2533373 — Matrix: Water
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	03/31/23 18:36	

LABORATORY CONTROL SAMPLE: 2533374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.3	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533375 2533376

Parameter	Units	40259895002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	26.0	20	20	46.7	46.8	103	104	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533377 2533378

Parameter	Units	40259713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	78.4	100	100	185	185	106	107	90-110	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259895

QC Batch: 441138 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

METHOD BLANK: 2532901 Matrix: Water
Associated Lab Samples: 40259895002, 40259895003, 40259895011, 40259895013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	03/31/23 02:57	

LABORATORY CONTROL SAMPLE: 2532902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532903 2532904

Parameter	Units	40259895002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	6	6	6.6	6.7	91	94	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532905 2532906

Parameter	Units	40259912001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	71.4	360	360	401	404	92	92	80-120	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 20.0156045.00
Pace Project No.: 40259895

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00
Pace Project No.: 40259895

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40259895002	**MW-7**	EPA 8015B Modified	441357		
40259895003	**MW-6**	EPA 8015B Modified	441357		
40259895011	**MW-17**	EPA 8015B Modified	441357		
40259895013	**MW-18**	EPA 8015B Modified	441357		
40259895002	**MW-7**	EPA 6010D	441103		
40259895003	**MW-6**	EPA 6010D	441103		
40259895011	**MW-17**	EPA 6010D	441103		
40259895013	**MW-18**	EPA 6010D	441103		
40259895001	**MW-8**	EPA 8260	441076		
40259895002	**MW-7**	EPA 8260	441076		
40259895003	**MW-6**	EPA 8260	441076		
40259895004	**MW-11**	EPA 8260	441076		
40259895005	**MW-9**	EPA 8260	441076		
40259895006	**PZ-2**	EPA 8260	441076		
40259895007	**MW-10**	EPA 8260	441076		
40259895008	**MW-20**	EPA 8260	441076		
40259895009	**MW-21**	EPA 8260	441076		
40259895010	**MW-19**	EPA 8260	441076		
40259895011	**MW-17**	EPA 8260	441076		
40259895012	**MW-16**	EPA 8260	441076		
40259895013	**MW-18**	EPA 8260	441076		
40259895014	**DUP-1**	EPA 8260	441076		
40259895015	**TRIP**	EPA 8260	441076		
40259895002	**MW-7**	EPA 300.0	441210		
40259895003	**MW-6**	EPA 300.0	441210		
40259895011	**MW-17**	EPA 300.0	441210		
40259895013	**MW-18**	EPA 300.0	441210		
40259895002	**MW-7**	SM 5310C	441138		
40259895003	**MW-6**	SM 5310C	441138		
40259895011	**MW-17**	SM 5310C	441138		
40259895013	**MW-18**	SM 5310C	441138		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40259895

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental Inc	Billing Information: AP@GZA.com
Address: Brookfield	
Report To: Sheryl Stephenson	Email To: SAME
Copy To: Kevin Hedinger	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: WAUKESHA Time Zone Collected: [ ]PT [ ]MT [X]CT [ ]ET
Phone: 262-202-1716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Fe

Container Preservative Type **: 3 3 2 1 U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOCs	Methane	TOC	Diss Iron	Sulfate						Lab Sample # / Comments
MW-8	GW	Grab	3/27/23	1119				3	X										001
MW-7	GW	Grab	3/27/23	1156				9	X	X	X	X	X						002
MW-6	GW	Grab	3/27/23	1239				9	X	X	X	X	X						003
MW-11	GW	Grab	3/27/23	1327				3	X										004
MW-9	GW	Grab	3/27/23	1401				3	X										005
PZ-2	GW	Grab	3/27/23	1422				3	X										006
MW-10	GW	Grab	3/27/23	1451				3	X										007
MW-20	GW	Grab	3/27/23	1200				3	X										008
MW-21	GW	Grab	3/27/23	1115				3	X										009
MW-19	GW	Grab	3/27/23	1240				3	X										010

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: (1)

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829911

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	3/27/23 1700	CS Logistics	3/27/23 1700
CS Logistics	3/28/23 0825		3/28/23 0825

MTJL LAB USE ONLY
Table #: (1)
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 40259895

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: AP @ GZA.com
Address: Brookfield	
Report To: Sheryl Stephenson	Email To: SAME
Copy To: Kevin Hedinger	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: WAUKESHA Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 262-202-1716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Fe

Container Preservative Type **: 3 3 2 1 4

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	CVOCs	MEE	TOC	Diss Fe	Sulfate						Lab Sample # / Comments
MW-17	GW	Grab	1330	3/27/23				9	X	X	X	X	X						011
MW-16	GW	Grab	1415	3/27/23				3	X										012
MW-18	GW	Grab	1505	3/27/23				9	X	X	X	X	X						013
DUP-1	GW	Grab	—	3/27/23				3	X										014
TRIP	W	—	—					1	X										015

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: D

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829912

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	3/27/23 1700	CS logistics	3/27/23 1700
CS logistics	3/28/23 0805		3/28/23 0805

MTJL LAB USE ONLY
Table #: D
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Sample Preservation Receipt Form

Client Name: GZA GeoEnvironmental   Project # 40259895

All containers needing preservation have been checked and noted below ☑Yes ☐No ☐N/A

Lab Lot# of pH paper [illegible]   Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SG   Date/Time:

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																	3																	2.5 / 5
002				1					1		1						6															X		2.5 / 5
003				1					1		1						6															X		2.5 / 5
004																	3																	2.5 / 5
005																	3																	2.5 / 5
006																	3																	2.5 / 5
007																	3																	2.5 / 5
008																	3																	2.5 / 5
009																	3																	2.5 / 5
010																	3																	2.5 / 5
011				1					1		1						6															X		2.5 / 5
012																	3																	2.5 / 5
013				1					1		1						6															X		2.5 / 5
014																	3																	2.5 / 5
015																	1											1						2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

3/28/23 SG

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) ☑Yes ☐No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40259895

40259895

Client Name: GZA GeoEnvironmental

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 9 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. -1.0 /Corr 0.0

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 3/28/23 Initials: SG

Labeled By Initials: YA

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out.	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume. For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: (Pace Green Bay), Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 494		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 05, 2023

Sheryl Stephenson
GZA GeoEnvironmental
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.00
Pace Project No.: 40259988

Dear Sheryl Stephenson:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cindy K Varga

Cindy Varga for
Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 20.0156045.00
Pace Project No.: 40259988

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 20.0156045.00
Pace Project No.: 40259988

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40259988001	**MW-1**	Water	03/28/23 09:27	03/29/23 09:45
40259988002	**PZ-1**	Water	03/28/23 09:55	03/29/23 09:45
40259988003	**MW-14**	Water	03/28/23 10:38	03/29/23 09:45
40259988004	**MW-2**	Water	03/28/23 11:10	03/29/23 09:45
40259988005	**MW-13**	Water	03/28/23 11:43	03/29/23 09:45
40259988006	**PZ-3**	Water	03/28/23 12:19	03/29/23 09:45
40259988007	**MW-5**	Water	03/28/23 09:20	03/29/23 09:45
40259988008	**MW-12**	Water	03/28/23 10:00	03/29/23 09:45
40259988009	**MW-4**	Water	03/28/23 10:55	03/29/23 09:45
40259988010	**MW-3**	Water	03/28/23 11:50	03/29/23 09:45
40259988011	**MW-15**	Water	03/28/23 12:45	03/29/23 09:45
40259988012	**DUP-2**	Water	03/28/23 00:00	03/29/23 09:45
40259988013	**TRIP**	Water	03/28/23 00:00	03/29/23 09:45

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SAMPLE ANALYTE COUNT

Project: 20.0156045.00
Pace Project No.: 40259988

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40259988001	**MW-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259988002	**PZ-1**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259988003	**MW-14**	EPA 8260	CXJ	8	PASI-G
40259988004	**MW-2**	EPA 8260	CXJ	8	PASI-G
40259988005	**MW-13**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259988006	**PZ-3**	EPA 8260	CXJ	8	PASI-G
40259988007	**MW-5**	EPA 8260	CXJ	8	PASI-G
40259988008	**MW-12**	EPA 8015B Modified	KHB	3	PASI-G
		EPA 6010D	SIS	1	PASI-G
		EPA 8260	CXJ	8	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40259988009	**MW-4**	EPA 8260	CXJ	8	PASI-G
40259988010	**MW-3**	EPA 8260	CXJ	8	PASI-G
40259988011	**MW-15**	EPA 8260	CXJ	8	PASI-G
40259988012	**DUP-2**	EPA 8260	CXJ	8	PASI-G
40259988013	**TRIP**	EPA 8260	CXJ	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 20.0156045.00
Pace Project No.: 40259988

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40259988001	**MW-1**					
EPA 8015B Modified	Methane	3530	ug/L	140	04/03/23 16:53	
EPA 6010D	Iron, Dissolved	5150	ug/L	100	03/31/23 13:08	
EPA 8260	Tetrachloroethene	1.4	ug/L	1.0	03/31/23 15:06	
EPA 8260	Trichloroethene	0.78J	ug/L	1.0	03/31/23 15:06	
EPA 8260	cis-1,2-Dichloroethene	27.4	ug/L	1.0	03/31/23 15:06	
EPA 300.0	Sulfate	23.8	mg/L	2.0	03/31/23 22:49	
SM 5310C	Total Organic Carbon	3.8	mg/L	0.50	03/31/23 06:50	
40259988002	**PZ-1**					
EPA 8015B Modified	Methane	9740	ug/L	350	04/03/23 17:00	
EPA 6010D	Iron, Dissolved	21500	ug/L	100	03/31/23 13:13	
SM 5310C	Total Organic Carbon	39.0	mg/L	15.0	03/31/23 07:07	
40259988003	**MW-14**					
EPA 8260	Tetrachloroethene	7.2	ug/L	1.0	03/31/23 15:46	
40259988004	**MW-2**					
EPA 8260	Tetrachloroethene	15.0	ug/L	1.0	03/31/23 16:05	
40259988005	**MW-13**					
EPA 8015B Modified	Methane	3990	ug/L	140	04/03/23 17:07	
EPA 6010D	Iron, Dissolved	33.5J	ug/L	100	03/31/23 13:17	
EPA 8260	Tetrachloroethene	11.6	ug/L	1.0	03/31/23 16:25	
EPA 8260	Trichloroethene	2.7	ug/L	1.0	03/31/23 16:25	
EPA 8260	cis-1,2-Dichloroethene	33.5	ug/L	1.0	03/31/23 16:25	
EPA 300.0	Sulfate	8.1	mg/L	2.0	03/31/23 23:19	
SM 5310C	Total Organic Carbon	2.0	mg/L	0.50	03/31/23 07:22	
40259988006	**PZ-3**					
EPA 8260	Tetrachloroethene	30.7	ug/L	1.0	03/31/23 16:45	
EPA 8260	cis-1,2-Dichloroethene	20.8	ug/L	1.0	03/31/23 16:45	
40259988007	**MW-5**					
EPA 8260	Tetrachloroethene	0.62J	ug/L	1.0	03/31/23 17:05	
40259988008	**MW-12**					
EPA 8260	Tetrachloroethene	32.1	ug/L	1.0	03/31/23 17:24	
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	03/31/23 17:24	
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	03/31/23 17:24	
EPA 300.0	Sulfate	21.7	mg/L	2.0	03/31/23 23:34	
SM 5310C	Total Organic Carbon	0.94	mg/L	0.50	03/31/23 07:38	
40259988012	**DUP-2**					
EPA 8260	Tetrachloroethene	11.4	ug/L	1.0	03/31/23 18:43	
EPA 8260	Trichloroethene	2.5	ug/L	1.0	03/31/23 18:43	
EPA 8260	cis-1,2-Dichloroethene	30.1	ug/L	1.0	03/31/23 18:43	

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: MW-1 **Lab ID: 40259988001** Collected: 03/28/23 09:27 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:35	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:35	74-85-1	
Methane	**3530**	ug/L	140	28.8	50		04/03/23 16:53	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**5150**	ug/L	100	29.6	1		03/31/23 13:08	7439-89-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**1.4**	ug/L	1.0	0.41	1		03/31/23 15:06	127-18-4	
Trichloroethene	**0.78J**	ug/L	1.0	0.32	1		03/31/23 15:06	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 15:06	75-01-4	
cis-1,2-Dichloroethene	**27.4**	ug/L	1.0	0.47	1		03/31/23 15:06	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 15:06	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/31/23 15:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/31/23 15:06	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 15:06	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**23.8**	mg/L	2.0	0.44	1		03/31/23 22:49	14808-79-8	
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**3.8**	mg/L	0.50	0.14	1		03/31/23 06:50	7440-44-0	

Sample: PZ-1 **Lab ID: 40259988002** Collected: 03/28/23 09:55 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:42	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:42	74-85-1	
Methane	**9740**	ug/L	350	72.0	125		04/03/23 17:00	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**21500**	ug/L	100	29.6	1		03/31/23 13:13	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: PZ-1 **Lab ID: 40259988002** Collected: 03/28/23 09:55 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/31/23 15:26	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 15:26	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 15:26	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 15:26	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 15:26	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/31/23 15:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		03/31/23 15:26	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 15:26	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**<2.2**	mg/L	10.0	2.2	5		03/31/23 23:04	14808-79-8	D3
5310C TOC	Analytical Method: SM 5310C Pace Analytical Services - Green Bay								
Total Organic Carbon	**39.0**	mg/L	15.0	4.2	30		03/31/23 07:07	7440-44-0	

Sample: MW-14 **Lab ID: 40259988003** Collected: 03/28/23 10:38 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**7.2**	ug/L	1.0	0.41	1		03/31/23 15:46	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 15:46	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 15:46	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 15:46	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 15:46	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/31/23 15:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/31/23 15:46	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 15:46	2037-26-5	

Sample: MW-2 **Lab ID: 40259988004** Collected: 03/28/23 11:10 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**15.0**	ug/L	1.0	0.41	1		03/31/23 16:05	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: MW-2 **Lab ID: 40259988004** Collected: 03/28/23 11:10 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 16:05	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 16:05	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 16:05	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 16:05	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/31/23 16:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/31/23 16:05	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 16:05	2037-26-5	

Sample: MW-13 **Lab ID: 40259988005** Collected: 03/28/23 11:43 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified								
	Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/03/23 13:50	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/03/23 13:50	74-85-1	
Methane	**3990**	ug/L	140	28.8	50		04/03/23 17:07	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D								
	Pace Analytical Services - Green Bay								
Iron, Dissolved	**33.5J**	ug/L	100	29.6	1		03/31/23 13:17	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**11.6**	ug/L	1.0	0.41	1		03/31/23 16:25	127-18-4	
Trichloroethene	**2.7**	ug/L	1.0	0.32	1		03/31/23 16:25	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 16:25	75-01-4	
cis-1,2-Dichloroethene	**33.5**	ug/L	1.0	0.47	1		03/31/23 16:25	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 16:25	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/31/23 16:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		03/31/23 16:25	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		03/31/23 16:25	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**8.1**	mg/L	2.0	0.44	1		03/31/23 23:19	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**2.0**	mg/L	0.50	0.14	1		03/31/23 07:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: PZ-3 **Lab ID: 40259988006** Collected: 03/28/23 12:19 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**30.7**	ug/L	1.0	0.41	1		03/31/23 16:45	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 16:45	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 16:45	75-01-4	
cis-1,2-Dichloroethene	**20.8**	ug/L	1.0	0.47	1		03/31/23 16:45	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 16:45	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/31/23 16:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		03/31/23 16:45	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		03/31/23 16:45	2037-26-5	

Sample: MW-5 **Lab ID: 40259988007** Collected: 03/28/23 09:20 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**0.62J**	ug/L	1.0	0.41	1		03/31/23 17:05	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 17:05	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 17:05	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 17:05	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 17:05	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/31/23 17:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/31/23 17:05	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		03/31/23 17:05	2037-26-5	

Sample: MW-12 **Lab ID: 40259988008** Collected: 03/28/23 10:00 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Ethane	**<0.39**	ug/L	5.6	0.39	1		04/04/23 09:45	74-84-0	
Ethene	**<0.25**	ug/L	5.0	0.25	1		04/04/23 09:45	74-85-1	
Methane	**<0.58**	ug/L	2.8	0.58	1		04/04/23 09:45	74-82-8	
6010D MET ICP, Dissolved	Analytical Method: EPA 6010D Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		03/31/23 13:19	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: MW-12 **Lab ID: 40259988008** Collected: 03/28/23 10:00 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**32.1**	ug/L	1.0	0.41	1		03/31/23 17:24	127-18-4	
Trichloroethene	**0.73J**	ug/L	1.0	0.32	1		03/31/23 17:24	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 17:24	75-01-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.47	1		03/31/23 17:24	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 17:24	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/31/23 17:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/31/23 17:24	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		03/31/23 17:24	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Sulfate	**21.7**	mg/L	2.0	0.44	1		03/31/23 23:34	14808-79-8	
5310C TOC	Analytical Method: SM 5310C								
	Pace Analytical Services - Green Bay								
Total Organic Carbon	**0.94**	mg/L	0.50	0.14	1		03/31/23 07:38	7440-44-0	

Sample: MW-4 **Lab ID: 40259988009** Collected: 03/28/23 10:55 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/31/23 17:44	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 17:44	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 17:44	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 17:44	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 17:44	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		03/31/23 17:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/31/23 17:44	2199-69-1	
Toluene-d8 (S)	93	%	70-130		1		03/31/23 17:44	2037-26-5	

Sample: MW-3 **Lab ID: 40259988010** Collected: 03/28/23 11:50 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/31/23 18:04	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: MW-3 **Lab ID: 40259988010** Collected: 03/28/23 11:50 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 18:04	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 18:04	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 18:04	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 18:04	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/31/23 18:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/31/23 18:04	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		03/31/23 18:04	2037-26-5	

Sample: MW-15 **Lab ID: 40259988011** Collected: 03/28/23 12:45 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/31/23 18:23	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 18:23	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 18:23	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 18:23	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 18:23	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/31/23 18:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/31/23 18:23	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 18:23	2037-26-5	

Sample: DUP-2 **Lab ID: 40259988012** Collected: 03/28/23 00:00 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**11.4**	ug/L	1.0	0.41	1		03/31/23 18:43	127-18-4	
Trichloroethene	**2.5**	ug/L	1.0	0.32	1		03/31/23 18:43	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 18:43	75-01-4	
cis-1,2-Dichloroethene	**30.1**	ug/L	1.0	0.47	1		03/31/23 18:43	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 18:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/31/23 18:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/31/23 18:43	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		03/31/23 18:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00
Pace Project No.: 40259988

Sample: TRIP **Lab ID: 40259988013** Collected: 03/28/23 00:00 Received: 03/29/23 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		03/31/23 14:46	127-18-4	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		03/31/23 14:46	79-01-6	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/31/23 14:46	75-01-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		03/31/23 14:46	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		03/31/23 14:46	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/31/23 14:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		03/31/23 14:46	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		03/31/23 14:46	2037-26-5	HS

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441357
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988001, 40259988002, 40259988005

METHOD BLANK: 2534557 Matrix: Water
Associated Lab Samples: 40259988001, 40259988002, 40259988005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/03/23 10:54	
Ethene	ug/L	<0.25	5.0	04/03/23 10:54	
Methane	ug/L	<0.58	2.8	04/03/23 10:54	

LABORATORY CONTROL SAMPLE & LCSD: 2534558 2534559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	48.0	52.9	90	99	80-120	10	20	
Ethene	ug/L	50	44.8	49.1	90	98	80-120	9	20	
Methane	ug/L	28.6	25.1	28.2	88	99	80-120	12	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2534560 2534561

Parameter	Units	40259691009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	49.2	51.0	92	95	77-120	4	20	
Ethene	ug/L	<0.25	50	50	45.7	47.3	91	95	76-120	3	20	
Methane	ug/L	68.1	28.6	28.6	135	156	234	307	12-198	14	26	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441493
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988008

METHOD BLANK: 2534999 Matrix: Water
Associated Lab Samples: 40259988008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	04/04/23 09:02	
Ethene	ug/L	<0.25	5.0	04/04/23 09:02	
Methane	ug/L	<0.58	2.8	04/04/23 09:02	

LABORATORY CONTROL SAMPLE & LCSD: 2535000 2535001

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	49.6	54.2	93	101	80-120	9	20	
Ethene	ug/L	50	45.9	50.2	92	100	80-120	9	20	
Methane	ug/L	28.6	26.7	29.5	93	103	80-120	10	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2535060 2535061

Parameter	Units	40259988008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	50.8	54.3	95	101	77-120	7	20	
Ethene	ug/L	<0.25	50	50	47.2	50.2	94	100	76-120	6	20	
Methane	ug/L	<0.58	28.6	28.6	27.0	29.1	94	102	12-198	8	26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441291 — Analysis Method: EPA 6010D
QC Batch Method: EPA 6010D — Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

METHOD BLANK: 2533793 — Matrix: Water
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	03/31/23 13:04	

LABORATORY CONTROL SAMPLE: 2533794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533795 2533796

Parameter	Units	40259988001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	5150	10000	10000	15700	15700	105	105	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441164
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988001, 40259988002, 40259988003, 40259988004, 40259988005, 40259988006, 40259988007, 40259988008, 40259988009, 40259988010, 40259988011, 40259988012, 40259988013

METHOD BLANK: 2532977 Matrix: Water
Associated Lab Samples: 40259988001, 40259988002, 40259988003, 40259988004, 40259988005, 40259988006, 40259988007, 40259988008, 40259988009, 40259988010, 40259988011, 40259988012, 40259988013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	03/31/23 10:22	
Tetrachloroethene	ug/L	<0.41	1.0	03/31/23 10:22	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	03/31/23 10:22	
Trichloroethene	ug/L	<0.32	1.0	03/31/23 10:22	
Vinyl chloride	ug/L	<0.17	1.0	03/31/23 10:22	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	03/31/23 10:22	
4-Bromofluorobenzene (S)	%	94	70-130	03/31/23 10:22	
Toluene-d8 (S)	%	94	70-130	03/31/23 10:22	

LABORATORY CONTROL SAMPLE: 2532978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
Trichloroethene	ug/L	50	50.2	100	70-130	
Vinyl chloride	ug/L	50	50.9	102	63-134	
1,2-Dichlorobenzene-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533043 2533044

Parameter	Units	40259988001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	27.4	50	50	66.6	72.0	78	89	70-130	8	20	
Tetrachloroethene	ug/L	1.4	50	50	47.2	50.6	92	98	70-130	7	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	42.0	46.5	84	93	70-130	10	20	
Trichloroethene	ug/L	0.78J	50	50	45.8	50.5	90	99	70-130	10	20	
Vinyl chloride	ug/L	<0.17	50	50	40.2	45.9	80	92	60-137	13	20	
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130			
4-Bromofluorobenzene (S)	%						96	96	70-130			
Toluene-d8 (S)	%						94	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441210 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

METHOD BLANK: 2533373 Matrix: Water
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	03/31/23 18:36	

LABORATORY CONTROL SAMPLE: 2533374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.3	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533375 2533376

Parameter	Units	40259895002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	26.0	20	20	46.7	46.8	103	104	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2533377 2533378

Parameter	Units	40259713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	78.4	100	100	185	185	106	107	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156045.00
Pace Project No.: 40259988

QC Batch: 441138 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

METHOD BLANK: 2532901 Matrix: Water
Associated Lab Samples: 40259988001, 40259988002, 40259988005, 40259988008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	03/31/23 02:57	

LABORATORY CONTROL SAMPLE: 2532902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532903 2532904

Parameter	Units	40259895002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	6	6	6.6	6.7	91	94	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2532905 2532906

Parameter	Units	40259912001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	71.4	360	360	401	404	92	92	80-120	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0156045.00
Pace Project No.: 40259988

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156045.00
Pace Project No.: 40259988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40259988001	**MW-1**	EPA 8015B Modified	441357		
40259988002	**PZ-1**	EPA 8015B Modified	441357		
40259988005	**MW-13**	EPA 8015B Modified	441357		
40259988008	**MW-12**	EPA 8015B Modified	441493		
40259988001	**MW-1**	EPA 6010D	441291		
40259988002	**PZ-1**	EPA 6010D	441291		
40259988005	**MW-13**	EPA 6010D	441291		
40259988008	**MW-12**	EPA 6010D	441291		
40259988001	**MW-1**	EPA 8260	441164		
40259988002	**PZ-1**	EPA 8260	441164		
40259988003	**MW-14**	EPA 8260	441164		
40259988004	**MW-2**	EPA 8260	441164		
40259988005	**MW-13**	EPA 8260	441164		
40259988006	**PZ-3**	EPA 8260	441164		
40259988007	**MW-5**	EPA 8260	441164		
40259988008	**MW-12**	EPA 8260	441164		
40259988009	**MW-4**	EPA 8260	441164		
40259988010	**MW-3**	EPA 8260	441164		
40259988011	**MW-15**	EPA 8260	441164		
40259988012	**DUP-2**	EPA 8260	441164		
40259988013	**TRIP**	EPA 8260	441164		
40259988001	**MW-1**	EPA 300.0	441210		
40259988002	**PZ-1**	EPA 300.0	441210		
40259988005	**MW-13**	EPA 300.0	441210		
40259988008	**MW-12**	EPA 300.0	441210		
40259988001	**MW-1**	SM 5310C	441138		
40259988002	**PZ-1**	SM 5310C	441138		
40259988005	**MW-13**	SM 5310C	441138		
40259988008	**MW-12**	SM 5310C	441138		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40259988

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: AP@gza.com
Address: Brookfield	
Report To: Sheryl Stephenson	Email To: SAME
Copy To: Kevin Hedenger	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: WAUKESHA Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 262 2021716 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss Fe

Container Preservative Type **: 3 3 2 4 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	CVOCs	m/e/E	TOC	Sulfate	Diss Iron						Lab Sample # / Comments
MW-1	GW	Grab	3/28/23	0927				9	X	X	X	X	X						001
PZ-1	GW	Grab	3/28/23	0955				9	X	X	X	X	X						002
MW-14	GW	Grab	3/28/23	1038				3	X										003
MW-2	GW	Grab	3/28/23	1110				3	X										004
MW-13	GW	Grab	3/28/23	1143				9	X	X	X	X	X						005
PZ-3	GW	Grab	3/28/23	1219				3	X										006
MW-5	GW	Grab	3/28/23	0920				3	X										007
MW-12	GW	Grab	3/28/23	1000				9	X	X	X	X	X						008
MW-4	GW	Grab	3/28/23	1055				3	X										009
MW-3	GW	Grab	3/28/23	1150				3	X										010

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829914

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
/GZA	3/28/23 1600	CS logistics	3/28/23 1600
CS Logistics	3/29/23 0945	Rodney Pace	3/29/23 0945

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental	Billing Information: AP@gza.com
Address: Brookfield	
Report To: Sheryl Stephenson	Email To: SAME
Copy To: Kenn Hedinger	Site Collection Info/Address:
Customer Project Name/Number: 20.0156045.00	State: WI County/City: WAUKESHA Time Zone Collected: [ ] PT [ ] MT [x] CT [ ] ET
Phone: 262 202 1716 Email:	Site/Facility ID #:
Collected By (print): Sheryl Stephenson	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Normal
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold._____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [x] Yes [ ] No

Field Filtered (if applicable): [x] Yes [ ] No

Analysis: Diss Fe

Container Preservative Type **: 3 3 2 1 U

Lab Project Manager:

** Preservative Types. (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: CVOCs	m/e/E	TOC	Diss Fe	Sulfate	Lab Sample # / Comments
MW-15	GW	Grab	3/28/23	1245	----	----		3	X					011
DUP-2	GW	Grab	3/28/23	—	----	----		3	X					012
TRIP	W	—	3/28/23	—	----	----		1	X					013

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2829913

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ oC
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
GZA	3/28/23 1600	CS Logistics	3/28/23 1600
CS Logistics	3/29/23 0945	Fedex Pace	3/29/23 0945

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

Sample Preservation Receipt Form

Client Name: GZA GeoEnvironmental Project #

All containers needing preservation have been checked and noted below. ☒Yes ☐No ☐N/A Initial when completed: RA Date/ Time.

Lab Lot# of pH paper: 100422 Lab Std #ID of preservation (if pH adjusted)

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001				1				X	1		1						G															X		2.5 / 5
002				1				X	1		1						G															X		2.5 / 5
003									RA 3/29/23								G																	2.5 / 5
004																	G																	2.5 / 5
005				1				X			1						G															X		2.5 / 5
006																	G																	2.5 / 5
007																	G																	2.5 / 5
008				1				X			1						G															X		2.5 / 5
009																	G																	2.5 / 5
010																	G																	2.5 / 5
011																	G																	2.5 / 5
012																	G																	2.5 / 5
013																	G												1					2.5 / 5
014																																		2.5 / 5
015																							RA 3-29-23											2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☒Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: GZA GeoEnvironmental

WO# : 40259988

40259988

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 121 **Type of Ice:** Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr. 1.5 /Corr: 1.0

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 3-29-23 /Initials: RA

Labeled By Initials:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume. For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☒No ☐N/A	12. Trip blank doesn't match COC 3-29-23
-Includes date/time/ID/Analysis Matrix:		no date or time on one of 0025 vials
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 494		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi