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REMEDIAL IMPLEMENTATION REPORT

Leather-Rich Inc.

1250 Corporate Center Drive

Oconomowoc, Wisconsin

BRRTS #02-68-581237

September 16, 2022

File No. 20.0156045.02



PREPARED FOR:

Wisconsin Department of Natural Resources
Milwaukee, Wisconsin

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September 16, 2022
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: Remedial Implementation 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 Remedial Implementation 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 provides a summary of the enhanced reductive dechlorination (ERD) remedial activities and subsequent groundwater performance monitoring conducted by GZA from May 2 through August 13, 2022. The remedial activities and performance monitoring activities were performed in accordance with the Project Update, Amended Groundwater Remediation Scope of Work, and Temporary Exemption Request for Groundwater Remedial Action Report ("Groundwater Remedial Action Report"), dated February 1, 2022, and approved by the WDNR on March 21, 2022.

The attached document was prepared following our July 26, 2022, telephone conversation and your subsequent electronic message on August 9, 2022, and is intended to meet the progress report requirements outlined in Section B.3 of the WDNR's Infiltration/Injection Temporary Exemption Request approval notice ("WDNR Approval Notice"), dated March 21, 2022. If you should have any questions regarding the Report, please contact Kevin Hedinger at (262) 754-2578.

Sincerely,

GZA GeoEnvironmental, Inc.

Sheryl I. Stephenson
Project Hydrogeologist

Kevin M. Hedinger
Senior Hydrogeologist

James F. Drought, P.H.
Principal Hydrogeologist

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1.0 INTRODUCTION

On behalf of Leather-Rich Inc. (Leather-Rich/"Client"), GZA GeoEnvironmental, Inc. (GZA) is submitting this Remedial Implementation 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 provides a summary of the enhanced reductive dechlorination (ERD) remedial activities and subsequent groundwater performance monitoring conducted by GZA, from May 2, 2022 through August 13, 2022. The remedial and performance monitoring activities were performed in accordance with the Interim Remediation Design and Specifications, and Temporary Exemption Request for Groundwater Remedial Action, dated November 1, 2021, and approved by the WDNR on March 21, 2022. The purpose of the ERD injections is 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). This Report is subject to the Limitations provided in Appendix A.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

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

The dry-cleaning operations are performed in an area that is approximately 100 feet long by 50 feet wide along the north wall in the eastern portion of the building. This area is referred to as the "containment area." The dry-cleaning process and storage area was constructed with a 60-mil polyethylene terra-guardian membrane system installed beneath the dry-cleaning area to contain potential spills or releases. The membrane is described as one piece of material with no seams that was installed at a depth of 2 to 3 feet below the floor elevation. The edge of the membrane along the north wall of the building was secured to the foundation wall, based on Site construction photos and discussion with the previous Leather-Rich operations manager, who was present during installation.

The area above the membrane was backfilled with a sand and gravel base course, and the concrete floor was placed over the gravel. The concrete floor in the containment area is recessed approximately 0.25-foot below the surrounding building concrete floor level to the west and south to provide secondary containment in the event of potential release. No releases of dry-cleaning solvents are known to have occurred within the containment area.

The dry-cleaning equipment and machines are within the containment area and are installed on 4-inch, raised concrete slabs. The dry-cleaning machines represent a closed loop system and the PCE used in the dry-cleaning operation is recovered and recycled for reuse. PCE is delivered to the Site via the overhead doors located west of the process area and is wheeled to a PCE storage tank in the process area, which is located in the containment area along the north wall, behind the machine and process area.

2.2 SUMMARY OF SITE PHYSICAL AND CHEMICAL CONDITIONS

Site investigation activities were conducted by Giles Engineering Associates, Inc. (Giles) from March to July 2018, to evaluate the extent and degree of PCE-affected soil and groundwater identified on-Site. These investigation activities



consisted of advancing five soil boring (SB-1 through SB-5), installing nine monitoring wells (MW-1 through MW-9) and two piezometers (PZ-1 and PZ-2), installation of two sub-slab vapor points (SS-1 and SS-2), and installation of nine soil gas vapor points (SV-1 through SV-9). The results of this investigation identified chlorinated hydrocarbons in soil, groundwater, and soil vapor samples. The results were submitted to the WDNR in November 2018, in a *Site Investigation Report* (SIR), dated October 3, 2018. Following review, the WDNR indicated that the SIR was not approved and required additional investigation activities be completed to address the Chapter NR 716 requirements.

From April 2019 through October 2021, GZA conducted supplemental investigation activities in an effort to satisfy the requirements of Chapter NR 716. The investigation activities consisted of advancing 10 soil borings (SB-6, SB-8, SB-9, SB-10, SB-11, SB-12, SB-14, SB-16, SB-17, and SB-18), and installing 12 monitoring wells (MW-10 through MW-21) and one piezometer (PZ-1). The monitoring wells and the piezometer were installed in accordance with Chapter NR 141 Wisconsin Administrative Code (Wis. Adm. Code). GZA also installed two soil borings (VAP-1 and VAP-2) to a depth of 50 feet below ground surface (bgs) for vertical aquifer profiling. Additional groundwater gauging and sampling activities were conducted between April 2019 and July 2021, to monitor groundwater quality at the Site.

Based on observations and results of the Site investigation activities, the following is a summary of pertinent information related to the groundwater treatment activities performed to create favorable conditions for ERD:

1. Soils at the Site are classified as fine to coarse sand with little fine silt and clay to the maximum depth explored of approximately 50 feet bgs. The soils generally become coarser grained with depth. During drilling activities, bedrock was not encountered at the Site and is estimated to be at a depth of 100 to 150 feet bgs.
2. The depth to groundwater in the monitoring wells on- and off-Site ranges from approximately 12 to 19 feet below grade (elevation range of 865 to 868 feet). The groundwater elevations measured at the Site from April 2022 through August 2022, are provided in Table 1.
3. The horizontal groundwater flow direction at the Site is to the northwest toward the Oconomowoc River, located approximately 2.25 miles northwest of the Site. The average hydraulic gradient measured at the Site during monitoring events ranged from 0.0014 feet per foot (ft/ft) to 0.002 ft/ft. The groundwater flow direction was measured on April 6, June 16, July 13, and August 12, 2022, and is shown on Figures 3A through 3D, respectively.
4. The vertical gradient in the monitoring well and piezometers nests, MW-1/PZ-1, MW-9/PZ-2, and MW-13/PZ-3, were evaluated to determine the vertical hydraulic gradients. In the pre- and post-monitoring events in 2022, the vertical gradient in the monitoring well/piezometer nests is generally upward; however, it appears that it may fluctuate between upward and downward hydraulic gradients ranging from -0.0018 ft/ft to 0.0078 ft/ft. Overall, the vertical hydraulic gradients suggest that they are not causing vertical distribution of contaminants.
5. PCE, and to a limited extent its daughter products, were detected in the soils in the dry-cleaning area. The affected soils in the unsaturated zone extend from the near surface area to the depth of groundwater. The chlorinated hydrocarbons in soil have been delineated on-Site in the dry-cleaning area.
6. PCE is the primary chlorinated hydrocarbon detected in groundwater and has been detected at concentrations ranging from approximately 30 to 900 micrograms per liter ($\mu\text{g}/\text{l}$) in the groundwater monitoring wells near or downgradient of the containment area. Concentrations of the degradation products TCE, cis-1,2-dichloroethene (DCE) and trans-1,2-DCE, were also detected at or downgradient of the containment area.



3.0 REMEDIAL ACTION IMPLEMENTATION

Groundwater samples collected from the Site monitoring wells since approximately 2018 for laboratory analysis of volatile organic compounds (VOCs) indicate that PCE is the primary groundwater contaminant. PCE is a chlorinated hydrocarbon that can be reductively degraded to daughter products TCE, cis-1,2-DCE, vinyl chloride, and ethene, most efficiently under anaerobic groundwater conditions. TCE, a degradation product of PCE, has been detected in groundwater samples above the NR 140 enforcement standard (ES). An evaluation of other degradation products indicated that some reductive dechlorination of PCE has occurred in the area of the highest concentrations near the containment area.

The PCE concentrations detected in groundwater at the Site are relatively low compared to other dry-cleaning and industrial sites where chlorinated hydrocarbons have affected groundwater. The low levels at the Site are indicative of fugitive, incidental discharges over time. The building at the Site was constructed in 1993, with controls and handling procedures to minimize discharges and the equipment used for the dry-cleaning is a closed-loop system, which reduces or eliminates discharges.

The soils at the Site predominantly consist of coarse-grained deposits of sand and gravel, which typically contain limited organic carbon to facilitate the reductive dichlorination. In addition, the geochemical parameters collected during low-flow sampling indicate that natural groundwater conditions at the Site are aerobic, as indicated by the dissolved oxygen (DO). The aerobic conditions are a limiting factor for reductive dechlorination, without an amendment to reduce the DO. GZA proposed an ERD groundwater remedial action to create anaerobic groundwater conditions necessary to support effective reductive dichlorination in our February 1, 2022, Groundwater Remedial Action Report, which was approved by the WDNR on March 21, 2022.

Strongly reducing, anaerobic conditions are created by the injection of the electron donor to facilitate the reductive dechlorination process. Reductive dechlorination refers to the process of successively removing one chlorine atom from the contaminant, thus producing more reduced daughter products until the chlorinated hydrocarbons are reduced to ethene. The reductive dechlorination process begins with the anaerobic fermentation of the electron donor to create molecular hydrogen and acetate. The molecular hydrogen is consumed by various reactions, including the electron acceptors, DO, nitrate, and sulfate, to create successively stronger anaerobic conditions. The acetate generated during fermentation is utilized as a carbon source by bacteria (dehalococoides) to facilitate reductive dechlorination and replace the chlorine atoms with hydrogen. Some of the acetate not used in the reductive dechlorination process may be fermented to methane.

The sections below describe the remedial activities performed at the Site.

3.1 PRE-INJECTION GROUNDWATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING

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 interim groundwater remediation.

Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed within the well screen of each monitoring well. Groundwater was purged from the wells at flow rates of approximately 225 to 380 milliliters per minute (ml/min). During purging, field parameters (pH, temperature, specific conductivity, DO, and oxidation-reduction potential [ORP]) were measured using a flow-through cell and water quality meter. Water levels were measured until stable conditions were achieved. 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 into a 55-gallon, metal drum staged on-Site.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace[®] Analytical Services (Pace) under chain-of-custody procedures for chlorinated VOCs (cVOCs) analyses 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 laboratory analytical reports are provided in Appendix B, the water level measurements are provided on Table 1, the groundwater and electron acceptor analytical results are provided on Table 2, and the field parameter measurements are provided on Table 3.

The field indicator parameters (DO and ORP) collected during low-flow sampling confirmed aerobic groundwater conditions at the Site. The DO in the groundwater ranged from 4.39 milligram per liter (mg/l) to 10 mg/l and ORP varied from 35 millivolts (mV) to 380 mV. Ideal DO and ORP values for efficient reductive dechlorination are if DO is <0.5 mg/l and ORP is between -75 and -150 mV.

In addition to the field indicator parameters, geochemical parameters (TOC, sulfate, and dissolved iron) were analyzed. Dissolved iron and sulfate concentrations provide an insight into the strength of the reducing environment in groundwater. As the groundwater conditions become more reducing, the ferric iron is reduced to ferrous iron (which is soluble in groundwater) and the sulfate concentrations decrease. These pre-injection groundwater sample results indicated that the groundwater conditions were not favorable for reductive dechlorination, as evidenced by the lack of dissolved iron concentrations in the monitoring wells and the presence of sulfate concentrations detected in 14 of the 24 wells. The TOC measured in the groundwater samples in the monitoring wells was less than 5.3 mg/l.

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 highest PCE concentrations at the Site were reported from monitoring wells MW-6, MW-7, and MW-8, which are located immediately north of the containment area outside of the building. PCE concentrations in these wells were measured at 160 µg/l, 197 µg/l, and 106 µg/l, respectively. PCE concentrations decrease with distance downgradient of the containment area wells. The groundwater elevations confirmed that the horizontal groundwater flow is northwest. The water level measurements from April 2022 are shown on Table 1.

3.2 INJECTION WELL INSTALLATIONS

On April 28, 2022, On-Site Environmental Services, Inc. (OES) of Sun Prairie, Wisconsin, mobilized to the Site to modify or install 11 injection wells using a Geoprobe[®] 7822 DT track-mounted drill rig. The injection wells included modification of seven injection wells in the area immediately north of the containment area (containment area injection wells) and installation of four injection wells located along the northwest property boundary (property boundary injection wells).

The seven containment area injection wells were previously installed during other Site investigation activities conducted in July 2019. Prior to implementing remedial activities, the depth to water and total well depth were measured in each containment area injection well and it was determined, based on the depth to water and total depth of each well, that there were only 2 feet of water in the well for injection. This depth of water is insufficient for the injection of emulsified vegetable oil (EVO), therefore, the wells were modified. During modification, the 2-inch PVC riser and well screen were removed, a 2-inch diameter, direct-push boring was advanced in the same location, and a 1-inch PVC well riser and screen were installed. Each well was completed to 30 feet bgs with 10 feet of 0.010-inch, factory-slotted well screen and 20 feet



of riser to ensure that the well screen was fully submerged. The submerged screen allowed for distribution of the EVO throughout the 10-foot water column in the screen interval. A sand filter pack was placed in the annular space around the well screen from the bottom of the boring to approximately 1 foot above the top of the well screen. The annular space above the sand filter pack was filled with 1 foot of fine sand and $\frac{3}{8}$ -inch of bentonite chips as a surface seal. The injection wells have an 8-inch manway cover. These containment area injection wells are located in an approximately 40-foot by 18-foot area outside of the north wall of the building within the area that has the highest measured PCE groundwater concentrations.

Four additional property boundary injection wells were installed along the northwest property boundary near monitoring well MW-17. The injection wells were installed in a linear pattern with a 40-foot space. Each well was installed to a depth of 30 feet bgs and completed as a NR 141-compliant, 2-inch monitoring well with 10 feet of 0.010-inch, factory-slotted, PVC well screen and riser. A sand filter pack was placed in the annular seal around the well screen from the bottom of the boring to approximately 2 feet above the top of the well screen and $\frac{3}{8}$ -inch of bentonite chips were placed above the sand filter pack to the surface. The injection wells have an 8-inch manway cover. The injection well locations are shown on Figure 4. The injection well construction documentation is provided in Appendix C.

3.3 ERD INJECTION IMPLEMENTATION

The ERD injection activities were performed from May 2 through May 12, 2022. The injected solution consisted of a mixture of potable water delivered to the Site by Waterman, Inc. of West Allis, Wisconsin mixed with an emulsified soybean oil and lactate supplied by JRW Bioremediation as Lactoil® and WilClear Plus®.

Wilclear Plus® is a sodium lactate with Accelerite®. The solution is a soluble, fast-acting lactate that scavenges the oxygen from the subsurface and causes the ORP to become negative, which creates ideal anaerobic conditions for the rapid dechlorination of PCE to daughter products. When injected, Wilclear Plus® is expected to be consumed in 6 to 12 months, which limits the length of time that WilClear Plus® can treat groundwater. LactOil® is an emulsified soybean oil that is a slower-release ethyl lactate, which is used to establish longer-term suitable groundwater geochemical conditions that facilitate ERD. The emulsified oil absorbs to the aquifer matrix and releases electron donor over an extended period of time. This improves the efficiency and longevity of donor utilization after the Wilclear Plus® is consumed. The product information sheets for are provided in Appendix D.

The injection implementation activities are summarized as follows:

1. The injections were performed in two separate areas. One injection array consisted of seven injection wells spaced approximately 10 to 12 feet apart and were installed in two rows north of the containment area; this array is referred to as the containment area injection wells. The other injection array consisted of four injection wells located along the northwest property line near MW-17 and spaced approximately 40 feet apart; this array is referred to as the property boundary injection wells. The locations are presented on Figure 4.
2. The saturated thickness for treatment zone in each of the injection areas was estimated to be 10 feet. The depth to groundwater in the injection areas was measured to be approximately 18 feet bgs, therefore, the injection treatment zone was from approximately 20 to 30 feet bgs.
3. The injection program utilized three totes each of Wilclear Plus® and LactOil®. Each tote held approximately 265 gallons of WilClear Plus® or Lactoil® for a total of approximately 6,000 pounds of each material.
4. The WilClear Plus® and Lactoil® were each mixed in separate 1,000-gallon polyethylene tanks with the potable water. The potable water was transported to the Site and stored in a 5,000-gallon vertical polyethylene tank. The injections were completed in two stages. In the first stage, approximately 72 gallons of WilClear Plus® were mixed with



approximately 1,000 gallons of potable water and injected. In the second stage, approximately 72 gallons of Lactoil® were mixed with approximately 1,000 gallons of Lactoil® and injected. The injection flow rate at each injection well was monitored by a flow meter connected in-line between the 1,000-gallon tank and the injection well. The flow rate and injection time were recorded for each tank mixture to estimate the flow rate for each well.

5. For the containment area injection wells, the injection was performed by connecting the 1,000-gallon mixing tank to the top of the injection well using a polyethylene hose. The hose was secured to the top of the injection well using a rubber connector and hose clamp. To start the injections, the valve on the tank was opened to allow for the material to flow into the well. A 1/10HP in-line transfer pump was connected to the injection hose to maintain flow of the solution into the well. The maximum flow rate of the pump was 5 gallons per minute (gpm); however, the average injection rate was between 2 and 3 gpm.
6. For the property boundary injection wells, the injection was performed in a similar manner. However, in these wells, a drop tube was installed in the well and was connected to the injection hose. The drop tube consisted of a 1-inch PVC pipe that extended to a depth of approximately 25 to 30 feet bgs. The drop tube allowed for the mixtures to be injected beneath the water table within the well screen to allow for even distribution throughout the treatment zone.
7. During the injection process, the flow rate was monitored and controlled at each well to control the flow of material into the subsurface so that it did not create preferential flow paths, and to reduce the potential for the solution to travel upward in the PVC riser to the surface. The flow rate in the wells showed a decrease in flow over the duration of the injections, which was typically approximately 4 hours. The flow rate is limited by the aquifer material and the ability of the aquifer to accept additional fluid.
8. 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. The total diluted Wilclear Plus® volume injected into the containment area injection wells was 5,862 gallons, with each well receiving between 702 and 969 gallons. The total diluted Lactoil® volume injected into the containment area was 7,160 gallons, with each well receiving between 959 and 1,080 gallons. The total diluted Wilclear® volume injected into the property boundary injection wells was 3,707 gallons, with each well receiving between 874 gallons and 977 gallons. The total diluted Lactoil® volume injected into the property boundary wells was 3,834 gallons, with each well receiving between 850 and 1084 gallons.
9. During the injection activities, the groundwater elevations were measured in monitoring wells within and surrounding the injection areas (MW-1, MW-2, MW-6, MW-7, MW-8, MW-9, MW-11, MW-14, MW-15, MW-18, MW-20, PZ-1, and PZ-2) three times per day (before, during, and at the end of injections each day). During the injection in the property boundary injection wells, MW-17 was included in the list of wells to measure groundwater elevation. The purpose of the groundwater elevation measurements was to monitor changes in the water levels caused by the injection. During the injections, the groundwater measurements did not indicate mounding or changes that indicated the injections were causing migration. The groundwater measurements at the beginning and end of the day were similar and any changes was likely due to changes in the barometric pressure, not the injections. The water levels measured during the injection activities are summarized in Table 4.

3.4 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. The monitoring wells selected to monitor the performance in each injection area were wells that would be expected to measure changes in the groundwater conditions. The results from MW-1, MW-6, and MW-7 were used to evaluate remedial progress near the containment area and 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 ml/min prior to sampling. During purging, field parameters (pH, temperature, specific conductivity, DO, and ORP) were measured using a flow-through cell and a water quality meter, and water levels were measured until stable conditions were achieved. 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 was placed in a 55-gallon drum staged on-Site. This drum was used to containerize groundwater from multiple sampling events and arrangements will be made for disposal once the drum is full.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace under chain-of-custody protocol via overnight carrier. The groundwater samples were submitted for analysis of cVOCs by 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 TOC by SM Method 5310C. The groundwater laboratory analytical reports are provided in Appendix E, the field parameter measurements are provided on Table 3, and the groundwater level measurements from the post-injection monitoring are provided on Table 1.

4.0 POST-ERD INJECTION MONITORING RESULTS

The following sections present the post-injection monthly 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.

4.1 ELECTRON DONOR DISTRIBUTION AND GROUNDWATER LEVELS

The 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 along the northwest property boundary approximately 40 feet apart. The volume of injected solution was calculated to replace one-third of the volume of groundwater within a 10-foot radius around the well and within the 10-foot treatment zone. The injection points were arranged around existing monitoring wells such that groundwater samples collected from these wells could evaluate the distribution of electron donor in the subsurface.

The analytical results from the three monthly sampling events indicate the TOC increased in MW-1, MW-6, and MW-7 following the injections, and in MW-13 and MW-17, TOC increased at a progressive but slower pace. The slow, progressive increase in MW-13 and MW-17 is due to a lower density of injection wells at the property boundary as compared to the containment area and the greater distance from the injection wells to the monitoring wells. Based on the slower rate of increase in TOC in MW-13 and MW-17, it is anticipated that the decrease in concentrations will have a similar response. Graph 1 shows the TOC concentrations in monitoring wells prior to and following electron donor injections.



Groundwater elevations were measured from select monitoring wells each day during the injection activities and are summarized on Table 4. The results of the groundwater elevations indicate that the injection activities had little, if any influence in the aquifer. Graph 2 shows the groundwater elevations measured during the injection period.

4.2 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 and 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 August post-injection monitoring event.

Parameter	Typical Concentration	Actual Concentration
DO	<0.5 to 1 mg/l	1.61 to 4.33 mg/l
ORP	<50 to <-100 mV	47 to -162 mV
Sulfate	<20 mg/l	ND to 21.8 mg/l
Ferrous Iron	>1.0 mg/l	ND to 40.8 mg/l
Methane	<0.5 mg/l	ND to 0.037 mg/l

*ND = concentrations were not detected.

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 of the groundwater conditions or differences in the field instrument being used. These are indicator parameters that support the laboratory data collected for the other parameters.

DO values in the containment area wells (MW-1, MW-6, and MW-7) ranged from 7.96 mg/l to 8.99 mg/l in the April 2022 baseline sampling event. DO in the containment area wells was depleted to <0.5 mg/l by the June 2022 sampling event. The property boundary wells (MW-13 and MW-17) had DO values of 1.12 mg/l and 0.34 mg/l, respectively, in the June 2022 sampling event. The decrease in DO indicates that the groundwater is under anaerobic conditions and other electron acceptors will be utilized by the microbes. Graph 3 shows the DO concentrations in the injection areas from April through August 2022.

The ORP values in the containment area wells ranged from 35.8 mV to 203 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 strongly negative through the August sampling event. ORP values in the property boundary wells (MW-13 and MW-17) during the June 2022 sampling event were 51 mV and 47 mV, respectively, and during the July 2022 sampling event the ORP decreased to -23 mV and 1 mV. The ORP in these wells indicates that the conditions in the containment area are strongly reducing and the conditions near the property boundary are becoming more reducing over time. Graph 4 indicates that the electron donor reduced the ORP values in the injection areas.

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 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 increase, and during the August 2022 sampling event, the concentrations were



6,310 µg/l, 40,800 µg/l, and 1,690 µg/l. The dissolved iron concentration in monitoring well MW-13 was below the method detection limit for the June 2022 and August 2022 sampling event and during the July 2022 sampling event the concentration was 92.8 µg/l. The concentration in MW-17 remained below the method detection limit for dissolved iron until the August 2022 sampling event when it was detected at 565 µg/l. The delayed increase in dissolved iron in MW-13 and MW-17 is likely due to the lower density of nearby injection wells. However, the concentrations measured in the August 2022 sampling showed a significant increase, indicating that the conditions continue to progress toward strongly reducing conditions. Graph 5 shows the dissolved iron concentrations from April through August 2022.

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 (MW-1, MW-6, and MW-7) ranged from 15.1 mg/l to 18.7 mg/l in the April 2022 baseline sampling event. From April to July 2022, the sulfate concentrations in MW-7 decreased from 18.7 mg/l to 6.9 mg/l, and in MW-1 and MW-6, the sulfate concentrations were less than the method detection limit. This reduction in the sulfate concentrations 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 the property boundary well, MW-13, shows a steady decreasing trend from 34 mg/l in April 2022 to 11 mg/l in August 2022. MW-17 has not exhibited a decreasing trend in sulfate concentrations. As discussed for other parameters, the parameter responses are delayed in the property boundary area, but there are indications that the conditions are progressing toward sulfate-reducing conditions. Graph 6 shows the sulfate concentration in the source area prior to and following electron donor injection.

Methane concentrations in the baseline sampling event were below the method detection limit. During the June 2022 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 were below the method detection limit in MW-13 and MW-17 from April through August 2022. The lack of methane in MW-13 and MW-17 is expected based on the other indicator parameters because the groundwater conditions are not yet strongly reducing and have not reached methanogenesis.

The post-injection performance monitoring data through August 2022 indicate 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 monthly sampling events. The post-injection monitoring results for the containment area wells demonstrate a decrease in DO, ORP, and sulfate, as well as an increase in dissolved iron and methane. The property boundary well results indicate reducing conditions are being created.

4.3 GROUNDWATER CONCENTRATIONS

The strongly reducing, anaerobic conditions created by the injection of the electron donor are favorable for the reductive dechlorination of chlorinated hydrocarbons. In Section 4.2, the performance monitoring data were presented to demonstrate that the injection of the electron donor has created strongly reducing, anaerobic groundwater conditions. The groundwater performance monitoring analytical data presented in this section demonstrates that the reductive dechlorination process is remediating the groundwater by reducing the chlorinated hydrocarbon concentrations. Table 2 presents the laboratory analytical results of the post-injection monitoring.



4.3.1 Pre- and Post-Injection Monitoring Comparison

The performance monitoring data indicates 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	MW-6	MW-7	MW-13	MW-17
PCE (µg/l)	5	Pre-Injection	48.3	169	197	58	57.7
	5	Post-Injection	11.3	15.6	31.2	34.5	67.7

Figure 5 shows the groundwater distribution of PCE from pre-injection (April 2022) through post-injection (August 2022). The analytical results from each post-injection monitoring event are shown on Table 2.

The daughter products in the groundwater samples have not increased during the three monthly monitoring events despite the successful decrease in PCE concentrations. The materials used for the injection are intended to limit the buildup of daughter products and it is working as intended at the Site.

Overall, the decrease in PCE, along with the favorable response in the field parameters, indicates that the electron donor has created conditions favorable for reductive dechlorination and that enhanced reductive dechlorination is successfully reducing the groundwater concentrations.

5.0 CONCLUSIONS

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

1. During injection activities, groundwater elevations were monitored to demonstrate that the electron donor injection did not significantly change the hydraulic gradient or cause the groundwater plume to migrate. The groundwater elevations in the wells in the immediate area of the injection points were observed to increase during the injection by less than 1.5 inches. The groundwater elevations recovered to approximately the pre-injection static elevation by the start of the following day, indicating that the subsurface soils were able to transmit the injected solution throughout the aquifer.
2. The electron donor was able to be injected at a rate less than 5 gpm, which is within the requirements of the WDNR approval letter.
3. 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.
4. The DO, ORP, and sulfate concentrations in the injection areas have decreased following the injection activities. The TOC, dissolved iron, and methane concentrations have increased following the injection activities. These changes in the groundwater conditions indicate that the conditions are favorable for continued reductive dechlorination.
5. The favorable conditions developed for reductive dechlorination have successfully reduced the concentration of PCE, as demonstrated during the August 2022 sampling event.

Based on the groundwater conditions and the reduction in PCE concentrations, Leather-Rich intends to continue with the quarterly performance monitoring approved by the WDNR. The next round of groundwater sampling is schedule for November 2022.



6.0 CERTIFICATION

"I, James F. Drought, P.H., hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

James Drought
Signature

September 16, 2022
Date

Principal Hydrogeologist
Title



TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
MW-1	885.14	885.39	22.75	10	18.85	866.29	4/5/2022
					18.76	866.38	4/6/2022
					17.27	867.87	6/16/2022
					16.89	868.25	7/13/2022
					17.56	867.58	8/12/2022
MW-2	883.48	883.69	20.8	5	17.85	865.63	4/5/2022
					17.68	865.80	4/6/2022
					16.10	867.38	6/16/2022
					15.89	867.59	7/13/2022
					16.58	866.90	8/12/2022
MW-3	884.30	885.59	20.72	5	18.75	865.55	4/5/2022
					18.56	865.74	4/6/2022
					17.12	867.18	6/16/2022
					16.74	867.56	7/13/2022
					17.35	866.95	8/12/2022
MW-4	880.34	880.60	17.86	5.00	14.78	865.56	4/5/2022
					14.59	865.75	4/6/2022
					13.12	867.22	6/16/2022
					12.75	867.59	7/13/2022
					13.36	866.98	8/12/2022
MW-5	883.54	883.82	20.82	5.00	17.91	865.63	4/5/2022
					17.75	865.79	4/6/2022
					16.20	867.34	6/16/2022
					16.00	867.54	7/13/2022
					16.71	866.83	8/12/2022
MW-6	885.10	885.41	20.95	5.00	18.82	866.28	4/5/2022
					18.63	866.47	4/6/2022
					17.19	867.91	6/16/2022
					16.78	868.32	7/13/2022
					17.46	867.64	8/12/2022
MW-7	885.19	885.44	20.90	5.00	18.88	866.31	4/5/2022
					18.72	866.47	4/6/2022
					17.25	867.94	6/16/2022
					16.85	868.34	7/13/2022
					17.53	867.66	8/12/2022
MW-8	885.26	885.40	21.00	5.00	18.95	866.31	4/5/2022
					18.76	866.50	4/6/2022
					17.35	867.91	6/16/2022
					16.95	868.31	7/13/2022
					17.62	867.64	8/12/2022
MW-9	885.37	885.66	20.05	10	19.06	866.31	4/5/2022
					18.87	866.50	4/6/2022
					17.43	867.94	6/16/2022
					17.02	868.35	7/13/2022
					-	-	8/12/2022

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
MW-10	885.21	885.70	21.92	10.00	19.16	866.05	4/5/2022
					19.00	866.21	4/6/2022
					17.50	867.71	6/16/2022
					17.12	868.09	7/13/2022
					-	-	8/12/2022
MW-11	885.27	885.64	23.04	10.00	19.03	866.24	4/5/2022
					18.84	866.43	4/6/2022
					17.38	867.89	6/16/2022
					16.97	868.30	7/13/2022
					-	-	8/12/2022
MW-12	884.02	884.36	22.04	10.00	18.44	865.58	4/5/2022
					18.25	865.77	4/6/2022
					16.60	867.42	6/16/2022
					16.46	867.56	7/13/2022
					17.15	866.87	8/13/2022
MW-13	883.98	884.35	22.1	10	18.41	865.57	4/5/2022
					18.25	865.73	4/6/2022
					16.62	867.36	6/16/2022
					16.42	867.56	7/13/2022
					17.14	866.84	8/12/2022
MW-14	882.90	883.33	22.20	10.00	17.40	865.50	4/5/2022
					17.23	865.67	4/6/2022
					15.62	867.28	6/16/2022
					15.32	867.58	7/13/2022
					16.00	866.90	8/12/2022
MW-15	883.41	883.80	22.10	10	17.90	865.51	4/5/2022
					17.73	865.68	4/6/2022
					16.20	867.21	6/16/2022
					15.84	867.57	7/13/2022
					16.50	866.91	8/12/2022
MW-16	882.90	883.51	19.60	10	17.35	865.55	4/5/2022
					17.14	865.76	4/6/2022
					15.50	867.40	6/16/2022
					15.38	867.52	7/13/2022
					16.13	866.77	8/12/2022
MW-17	883.68	884.24	21.22	10	18.07	865.61	4/5/2022
					17.89	865.79	4/6/2022
					16.15	867.53	6/16/2022
					16.10	867.58	7/13/2022
					16.85	866.83	8/12/2022
MW-18	883.22	883.52	24.95	10	17.72	865.50	4/5/2022
					17.51	865.71	4/6/2022
					15.67	867.55	6/16/2022
					15.72	867.50	7/13/2022
					16.50	866.72	8/12/2022
MW-19	882.65	882.99	23.99	10	17.11	865.54	4/5/2022
					16.92	865.73	4/6/2022
					15.10	867.55	6/16/2022
					15.19	867.46	7/13/2022
					15.97	866.68	8/12/2022

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

WELL ID	TOC ELEVATION (ft)	GROUND SURFACE ELEVATION (ft)	DEPTH TO BOTTOM (ft)	SCREEN LENGTH (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft above msl)	DATE
MW-20	882.70	883.22	24.59	10	17.20	866.02	4/5/2022
					16.95	865.75	4/6/2022
					14.86	867.84	6/16/2022
					15.20	867.50	7/13/2022
					16.10	866.60	8/12/2022
MW-21	881.07	881.63	24.75	10	15.49	865.58	4/5/2022
					15.10	865.97	4/6/2022
					12.84	868.23	6/16/2022
					13.52	867.55	7/13/2022
					14.48	866.59	8/12/2022
PZ-1	885.08	885.30	36.75	5.00	18.83	866.25	4/5/2022
					18.66	866.42	4/6/2022
					17.18	867.90	6/16/2022
					16.80	868.28	7/13/2022
					17.49	867.59	8/12/2022
PZ-2	885.21	885.65	35.70	5	18.89	866.32	4/5/2022
					18.69	866.52	4/6/2022
					17.25	867.96	6/16/2022
					-	-	7/13/2022
					-	-	8/12/2022
PZ-3	883.86	884.42	36.31	5.00	18.30	865.56	4/5/2022
					18.12	865.74	4/6/2022
					16.48	867.38	6/16/2022
					-	-	7/13/2022
					17.15	866.71	8/12/2022

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-1				MW-2	MW-3	MW-4	MW-5	MW-6				MW-7				MW-8	MW-9
			4/6/22	6/16/22	7/13/22	8/12/22	4/6/22	4/6/22	4/6/22	4/5/22	4/5/22	6/16/22	7/13/22	8/12/22	4/5/22	6/16/22	7/13/22	8/12/22	4/5/22	4/5/22
Collected by:			GZA	GZA	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	10.7	< 0.41	1.8	0.62J	169	41.4	47.4	15.6	197	48.8	66.3	31.2	106	49.1
Trichloroethene	5	0.5	3.2	0.99J	6.9	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	7.5	2.3	2.9	1.8	19.3	1.5	2.2	1.6	4.4	9.6
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.35	< 0.17	0.50J	13.3	< 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	< 0.47	< 0.47	< 0.47	< 0.47	20.5	5.5	7.3	219	64.7	1.4	1.9	9.7	10.9	25.7
trans-1,2-Dichloroethene	100	20	0.92J	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53	2.2	< 0.53	< 0.53	0.64 J	4.7	< 0.53	< 0.53	< 0.53	0.84	2.3
Sulfate	NS	NS	15,100	17,800	< 2,200	850 J	22,700	NA	NA	NA	17,800	17,000	< 2,200	< 2,200	18,700	22,300	6,900 J	13,000	20700	NA
Iron, Dissolved	NS	NS	< 56.7	2,720	4,800	6,310	< 56.7	NA	NA	NA	< 29.6	1,760	33,300	40,800	< 29.6	195	5,640	1,690	< 29.6	NA
Total Organic Carbon	NS	NS	2,100	24,200	45,100	22,200	1,100	NA	NA	NA	1,000	236,000	666,000	314,000	1,000	33,500	70,000	4,300	1100	NA
Ethane	NS	NS	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	NA	NA	< 0.39	1.6 J	4.8 J	1.9 J	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA
Ethene	NS	NS	< 0.25	< 0.25	< 0.25	< 0.35	NA	NA	NA	NA	< 0.25	3.1 J	4.5 J	2.1 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
Methane	NS	NS	< 0.58	< 0.58	< 0.58	37.1	NA	NA	NA	NA	< 0.58	2.2 J	< 0.58	11.5	< 0.58	< 0.58	< 0.58	4.1	< 0.58	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

Parameter	ES (µg/l)	PAL (µg/l)	MW-10	MW-11	MW-12	MW-13			MW-14	MW-15	MW-16		MW-17				MW-18	MW-19	MW-20	
			4/5/22	4/5/22	4/6/22	4/6/22	6/16/22	7/13/22	8/12/22	4/6/22	4/6/22	4/6/22	4/6/2022 DUP	4/6/22	6/16/22	7/13/22	8/12/22	4/5/22	4/5/22	4/5/22
Collected by:			GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	2.4	8.8	36.2	58	42.3	41	34.5	15.8	3	6.6	6.3	57.7	58.7	66.2	67.6	93	6.4	106
Trichloroethene	5	0.5	0.54 J	0.66	0.58 J	0.71 J	0.54 J	0.59 J	1.6	< 0.32	< 0.32	< 0.32	< 0.32	0.95 J	0.74 J	0.57 J	0.61 J	1.3	< 0.32	1.4 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	< 0.17	< 0.44
cis-1,2-Dichloroethene	70	7	< 0.47	0.66J	< 0.47	< 0.47	< 0.47	< 0.47	15.1	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 1.2
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	< 0.53	< 1.3
Sulfate	NS	NS	NA	NA	22,200	34,000	22,000	23,100	11,000	103,000	24,800	NA	NA	22,300	23,700	23,400	21,800	22,700	NA	17,400
Iron, Dissolved	NS	NS	NA	NA	< 56.7	< 56.7	< 29.6	92.8	< 56.7	< 56.7	< 56.7	NA	NA	< 56.7	< 29.6	< 29.6	565	90.3	NA	< 29.6
Total Organic Carbon	NS	NS	NA	NA	NA	1,500	1,300	1,800	2,200	1,200	1,100	NA	NA	1,300	2,600	2,200	5,300	1,400	NA	1,300
Ethane	NS	NS	NA	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA	< 0.39
Ethene	NS	NS	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25
Methane	NS	NS	NA	NA	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	NA	NA	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	NA	< 0.58

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin**

Parameter	ES (µg/l)	PAL (µg/l)	MW-21		PZ-1	PZ-2	PZ-3
			4/5/22	4/5/2022 DUP	4/6/22	4/5/22	4/6/22
Collected by:			GZA	GZA	GZA	GZA	GZA
Tetrachloroethene	5	0.5	<u>59.9</u>	<u>57.1</u>	< 0.41	<u>5.3</u>	<u>1.6</u>
Trichloroethene	5	0.5	< 0.32	< 0.32	< 0.32	<u>1.2</u>	< 0.32
Vinyl chloride	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
cis-1,2-Dichloroethene	70	7	< 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
Sulfate	NS	NS	NA	NA	27,900	NA	5,000
Iron, Dissolved	NS	NS	NA	NA	< 56.7	NA	< 56.7
Total Organic Carbon	NS	NS	NA	NA	980	NA	5300
Ethane	NS	NS	NA	NA	< 0.39	NA	< 0.39
Ethene	NS	NS	NA	NA	< 0.25	NA	< 0.25
Methane	NS	NS	NA	NA	< 0.58	NA	< 0.58

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. (GZA) and analyzed by PACE Analytical Lab, Inc. (PACE) of Green Bay, Wisconsin using United States Environmental Protection Agency (USEPA) Method 8260 for chlorinated volatile organic compounds, USEPA Method 6010D for dissolved iron, USEPA 8015B Modified for dissolved gases (ethane, ethene, and methane), Standard Method 300.0 for sulfate, and SM Method 5310C for total organic carbon (TOC).
2. Results are presented in micrograms per liter (µg/l).
3. Results are compared to Wisconsin Administrative Code (WAC) 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 WAC NR 140.

TABLE 3
SUMMARY OF GROUNDWATER FIELD PARAMETERS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-1				MW-2	MW-3	MW-4	MW-5	MW-6				MW-7				MW-8	MW-9	MW-10	MW-11
	Date	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/6/2022	4/6/202	4/6/2022	4/5/2022	4/5/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	4/5/2022	4/5/2022
Depth to Water (ft btoc)	22.76	17.27	16.89	17.56	17.81	18.58	11.36	17.8	18.81	17.19	16.78	17.46	18.88	17.25	16.85	17.53	18.96	19.06	14.45	19.03
DO (mg/L)	7.96	0.32	0	2.2	6.42	8.15	10	7.87	8.52	0.32	0	2.24	8.99	0.33	0	1.61	8.33	7.25	5.82	7.02
ORP (mV)	35.8	-140	-227	-162	180	22.8	254.3	107.3	199	-103	-130	-93	203	-77	-157	-150	196	185	191	191
Conductivity (mS/cm)	1.052	1.05	1.04	1.22	1.05	1.29	0.601	2.1	0.779	0.921	1.62	1.62	0.791	1.03	1.03	1.09	1.02	1.08	0.801	0.954
Temperature (°C)	12.6	25.41	25.49	21.1	11.98	10.5	8.6	12.1	12.77	26.04	24.03	22.74	11.75	25	26.69	22.46	11.64	17.19	18.18	15.15
pH (s.u.)	7.29	7.72	7.68	6.45	7	7.21	7.76	7.47	6.02	7.58	6.45	5.97	6.28	7.41	7.4	6.76	6.54	7.09	7.1	7

TABLE 3
SUMMARY OF GROUNDWATER FIELD PARAMETERS
PRE- AND POST-INJECTION
Leather-Rich Inc.
Oconomowoc, Wisconsin

Well ID	MW-12	MW-13				MW-14	MW-15	MW-16	MW-17				MW-18	MW-19	MW-20	MW-21	PZ-1	PZ-2	PZ-3
Date	4/6/2022	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022	6/16/2022	7/13/2022	8/12/2022	4/5/2022	4/5/2022	4/5/2022	4/5/2022	4/6/2022	4/5/2022	4/6/2022
Depth to Water (ft btoc)	18.34	18.36	16.62	16.42	17.14	17.36	17.75	17.18	18.01	16.15	16.1	16.85	17.59	17	17.1	15.38	18.66	18.89	18.25
DO (mg/L)	7.08	4.7	1.23	0	1.78	9.19	6.92	10.41	4.39	0.34	0	4.33	6.7	4.64	7.48	7.06	5.85	6.23	8.21
ORP (mV)	173	167	51	-23	33	200	34.6	220.6	172	47	1	-63	28.7	112.9	118.8	169.5	29	189	161
Conductivity (mS/cm)	1.11	1.06	0.928	1.11	1.12	0.903	1.426	1.765	1.11	1.13	1.13	1.04	1.944	2.929	1.372	1.426	1.807	1.26	0.405
Temperature (°C)	12.99	12.99	26.7	25.41	20.92	12.67	11.5	11.6	12.88	24.65	22.7	20.34	11.8	11.8	14.2	12.7	13.6	17.66	12.95
pH (s.u.)	7.17	7.02	7.86	7.46	6.71	6.98	7.25	7.38	7.01	8	7.42	6.64	7.12	7.36	7.26	7.1	7.18	6.97	7.39

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

Well	5/2/2022			5/3/2022			5/4/2022		
	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
	WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)		
MW-1	18.24	18.2	18.19	18.25	18.24	18.2	18.16	18.1	18.11
MW-2	17.2	17.2	17.19	17.21	17.23	17.2	17.11	17.11	17.07
MW-6	18.1	18.1	18.1	18.15	18.09	18.06	18.03	18	18.02
MW-7	18.16	18.14	18.14	18.17	18.15	18.12	18.07	18.06	18.04
MW-8	18.23	18.25	18.22	18.24	18.22	18.2	18.18	18.11	18.15
MW-9	18.33	18.34	18.34	18.35	18.36	18.31	18.25	18.25	18.26
MW-11	18.31	18.29	18.31	18.31	18.29	18.27	18.22	18.19	18.2
MW-14	16.66	16.66	16.66	16.72	16.66	16.66	16.57	16.6	16.54
MW-15	17.18	17.14	17.15	17.19	17.16	17.14	17.08	17.1	17.05
MW-17									
MW-18	17.1	17.1	17.1	17.2	17.18	17.07	16.94	16.92	16.9
MW-20	16.65	16.69	16.7	16.75	16.68	16.6	16.44	16.42	16.38
PZ-1	18.15	18.09	18.1	18.15	18.11	18.06	18.04	17.99	18.01
PZ-2	18.2	18.2	18.19	18.21	18.19	18.15	18.14	18.09	18.05

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

Well	5/5/2022			5/6/2022			5/9/2022		
	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
	WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)		
MW-1	18.1	18.1	18.09	18.11	18.12		18.19	18.16	18.15
MW-2	17.08	17.06	17.03	17.1	17.1		17.19	17.19	17.16
MW-6	18.01	17.96	17.96	17.99	18		18.1	18	18.03
MW-7	18.02	18.05	18.02	18.09	18.08		18.15	18.09	18.06
MW-8	18.16	18.1	18.12	18.15	18.14		18.23	18.18	18.19
MW-9	18.2	18.2	18.2	18.25	18.23		18.32	18.3	18.3
MW-11	18.18	18.16	18.16	18.19	18.19		18.25	18.23	18.23
MW-14	16.56	16.53	16.56	16.59	16.56		16.65	16.65	16.63
MW-15	17.05	17.03	17.05	17.06	17.04		17.11	17.11	17.1
MW-17									
MW-18	16.98	16.97	16.98	17.05	17.05		17.15	17.15	17.15
MW-20	16.5	16.51	16.53	16.6	16.61		16.72	16.72	16.74
PZ-1		17.97	17.95	18	18		18.09	18.06	18.01
PZ-2	18.18	18.07	18.04	18.08	18.07		18.15	18.15	18.13

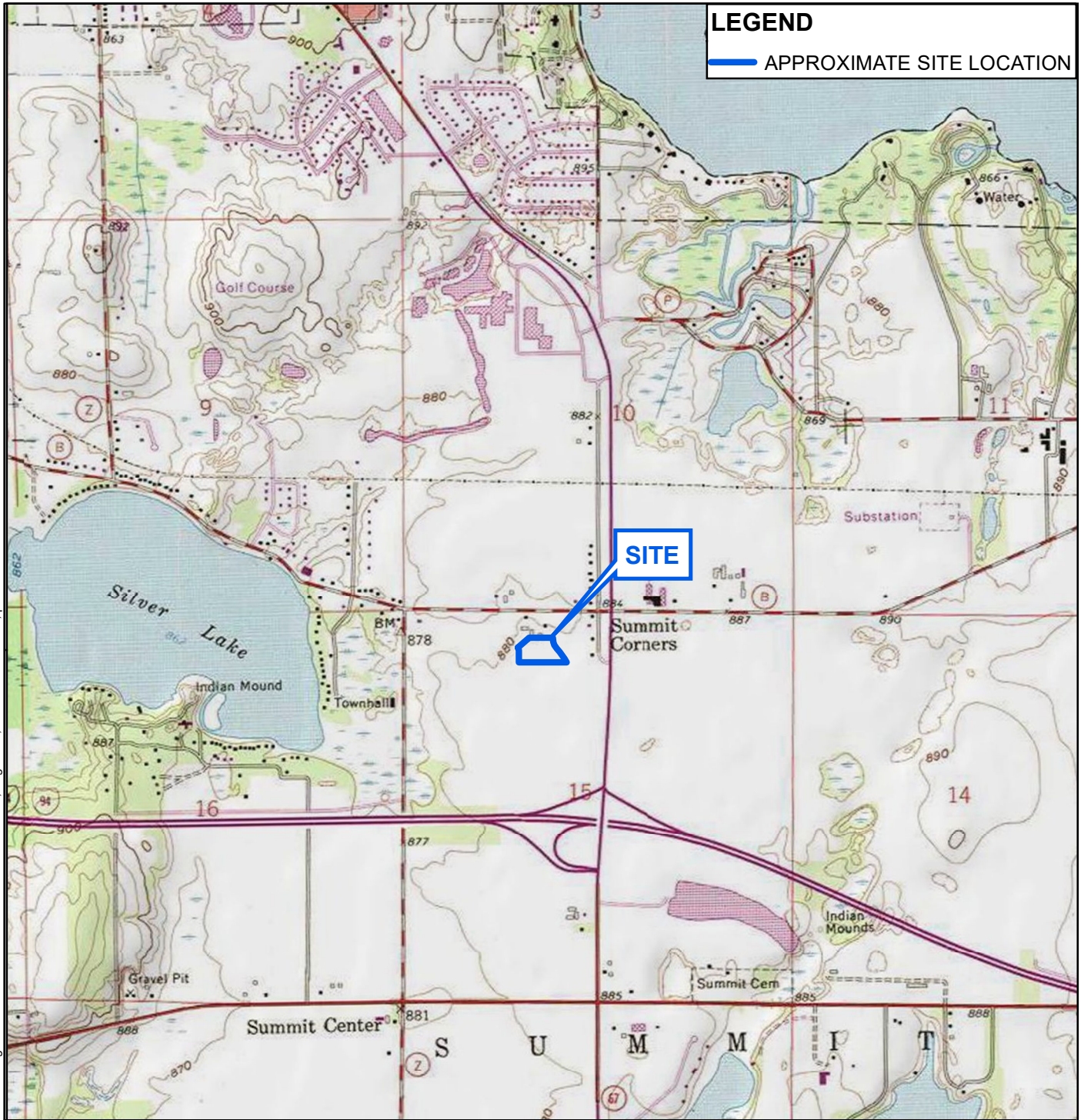
TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING ERD INJECTION IMPLEMENTATION
Leather-Rich Inc., Oconomowoc, WI

Well	5/10/2022			5/11/2022			5/12/2022		
	Beginning	Middle	End	Beginning	Middle	End	Beginning	Middle	End
	WL (ft BTOC)			WL (ft BTOC)			WL (ft BTOC)		
MW-1		18.22		18.23	18.21	18.21	18.22	18.19	18.19
MW-2		17.19		17.2	17.2	17.2	17.21	17.21	17.2
MW-6		18.08		18.11	18.09	18.1	18.1	18.1	18.1
MW-7		18.19		18.19	18.15	18.2	18.2	18.15	18.15
MW-8		18.22		18.25	18.25	18.26	18.28	18.23	18.24
MW-9		18.34		18.34	18.34	18.33	18.35	18.34	18.32
MW-11		18.28		18.3	18.28	18.27	18.1	18.3	18.29
MW-14		16.67		16.69	16.67	16.69	16.7	16.65	16.69
MW-15		17.14		17.14	17.1	17.14	17.13	17.11	17.14
MW-17		17.5		17.55	17.54	17.52	17.55	17.54	17.55
MW-18		17.16		17.2	17.17	17.2	17.21	17.16	17.21
MW-20		16.78		16.8	16.75	16.8	16.8	16.76	16.77
PZ-1		18.11		18.12	18.1	18.11	18.14	18.12	18.12
PZ-2		18.2		18.25	18.18	18.19	18.2	18.19	18.2



FIGURES

© 2022 - GZA GeoEnvironmental, Inc. J:\156000to156999\156045 Leather Rich\Figures\20.0156045.00 Site Location - FIG 1.mxd, August 22, 2022 - 12:03:03 PM, pamelia.rehbein



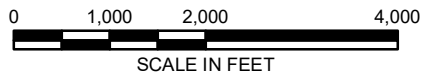
LEGEND

— APPROXIMATE SITE LOCATION

SOURCE:

BASE MAP FROM THE FOLLOWING
USGS QUADRANGLE MAP:

OCONOMOWOC, WI



SCALE IN FEET



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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

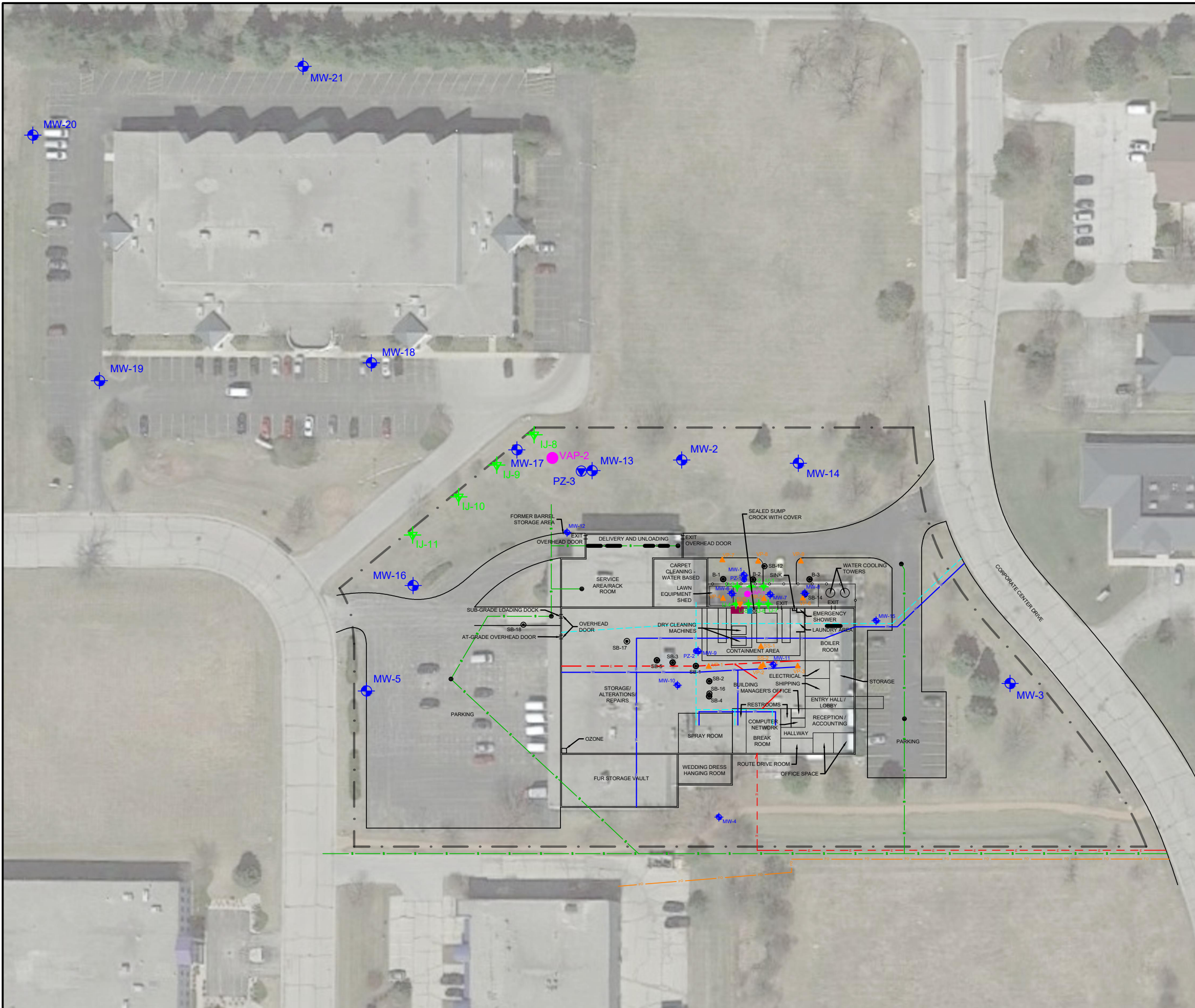
PREPARED FOR:
LEATHER-RICH, INC.
1205 CORPORATE CENTER DRIVE
OCONOMOWOC, WI

SITE LOCATION MAP

PROJ MGR:	HAW	REVIEWED BY:	HAW
DESIGNED BY:	HAW	DRAWN BY:	PLR
DATE:	08/22/2022	PROJECT NO:	20.0156045.00

CHECKED BY:	SIS
SCALE:	1 in = 2,000 ft
REVISION NO:	

FIG
1
SHEET NO: OF

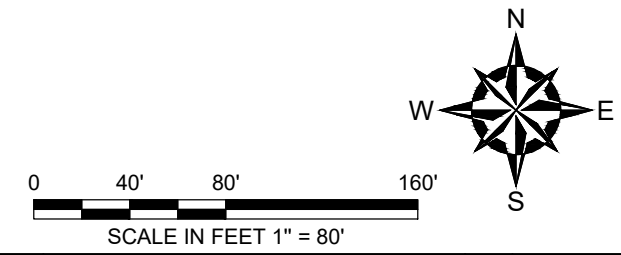


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- VERTICAL AQUIFER PROFILE
- 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

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.



NO.	ISSUE/DESCRIPTION	BY	DATE

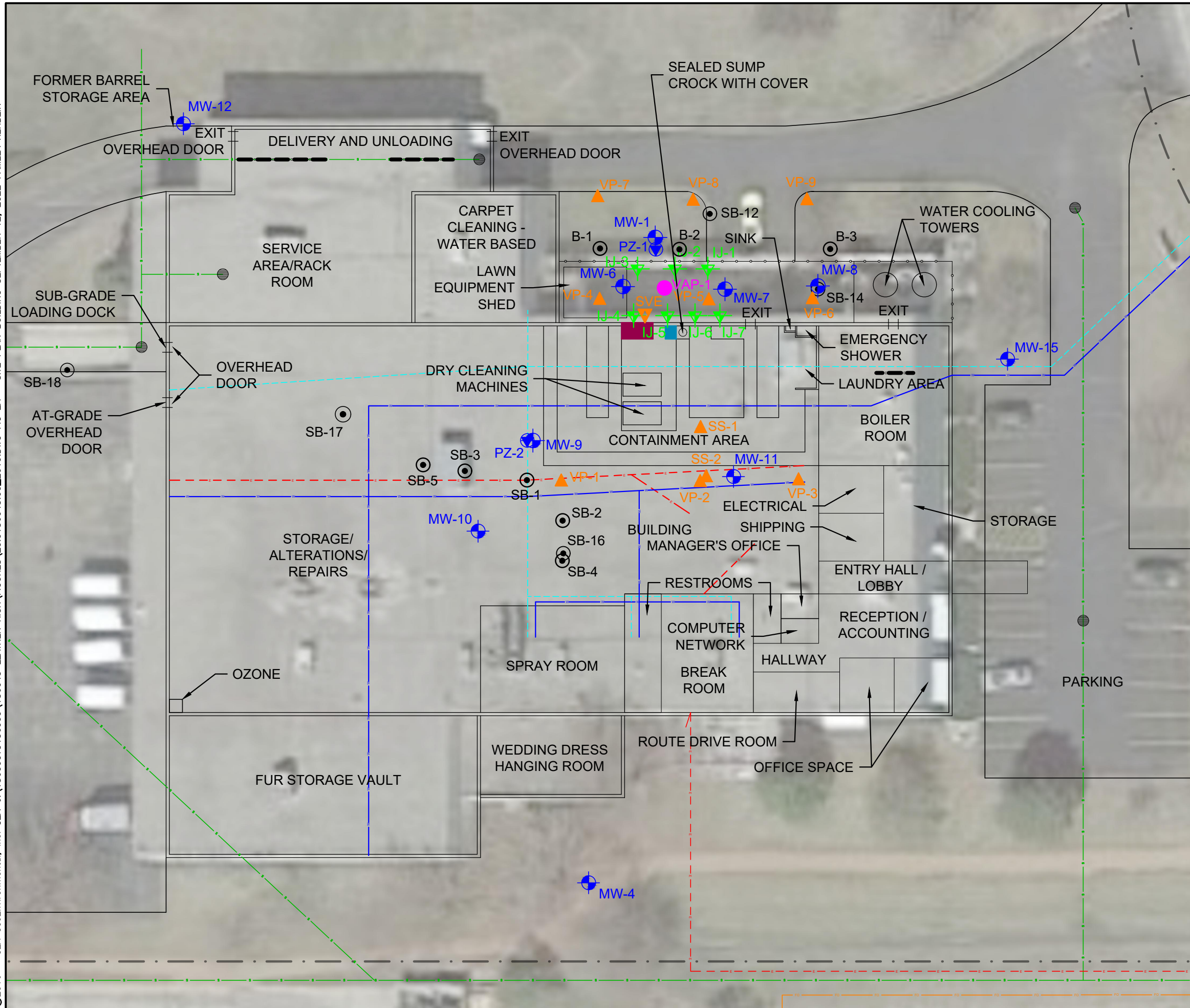
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REMEDIAL IMPLEMENTATION REPORT

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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	2
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	
			SHEET NO. OF

© 2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 2A - SITE PLAN BUILDING SEPTEMBER 12, 2022 PAMELA REHBEIN

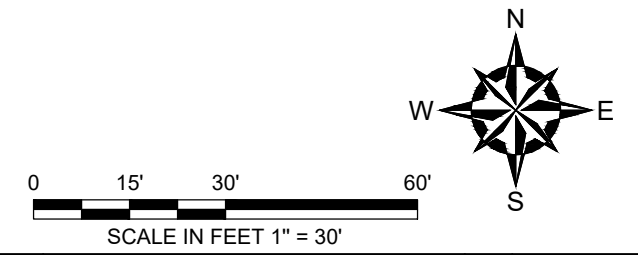


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 GROUNDWATER MONITORING WELL
- PZ-1 PIEZOMETER
- VP-1 VERTICAL AQUIFER PROFILE
- B-1 SB-1 SOIL BORINGS
- DRAIN
- VP-1 SOIL VAPOR POINT
- SS-1 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

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.



NO.	ISSUE/DESCRIPTION	BY	DATE

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REMEDIAL IMPLEMENTATION REPORT

SITE BUILDING 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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	2A
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	

© 2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 3A SEPTEMBER 14, 2022 PAMELA REHBEIN

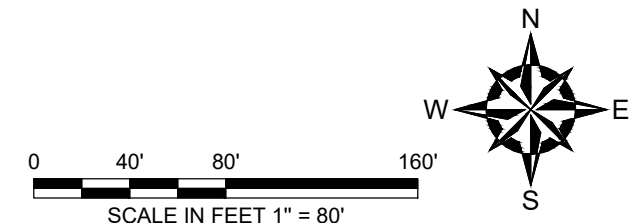


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 GROUNDWATER MONITORING WELL
- 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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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.



NO.	ISSUE/DESCRIPTION	BY	DATE

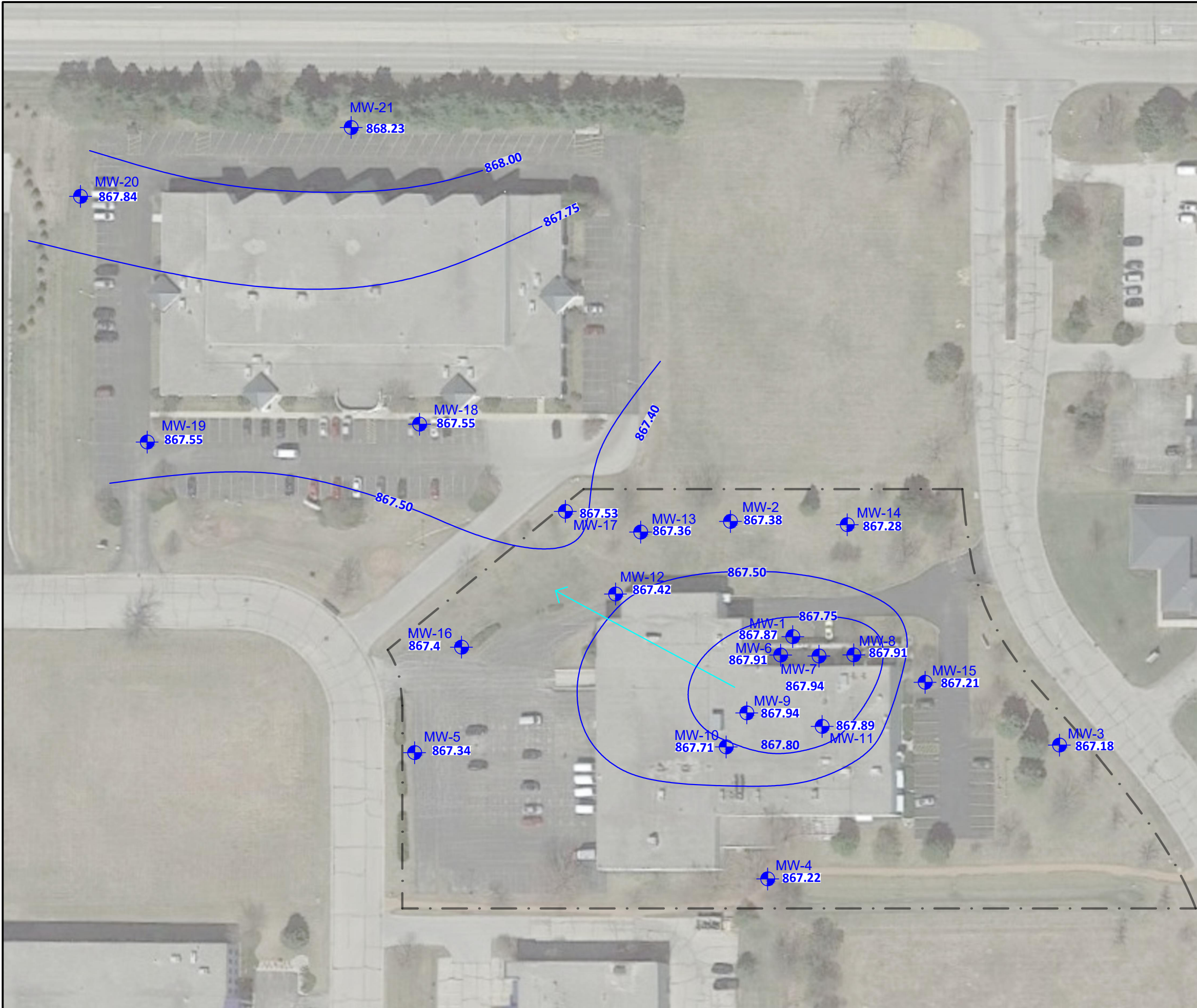
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REMEDIAL IMPLEMENTATION REPORT

**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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	3A
DATE: 9/12/2022	PROJECT NO: 20.0156045.02	REVISION NO:	

© 2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 3B SEPTEMBER 14, 2022 PAMELA REHBEIN

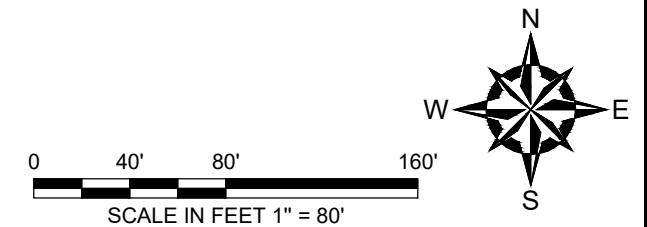


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- 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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NO.	ISSUE/DESCRIPTION	BY	DATE

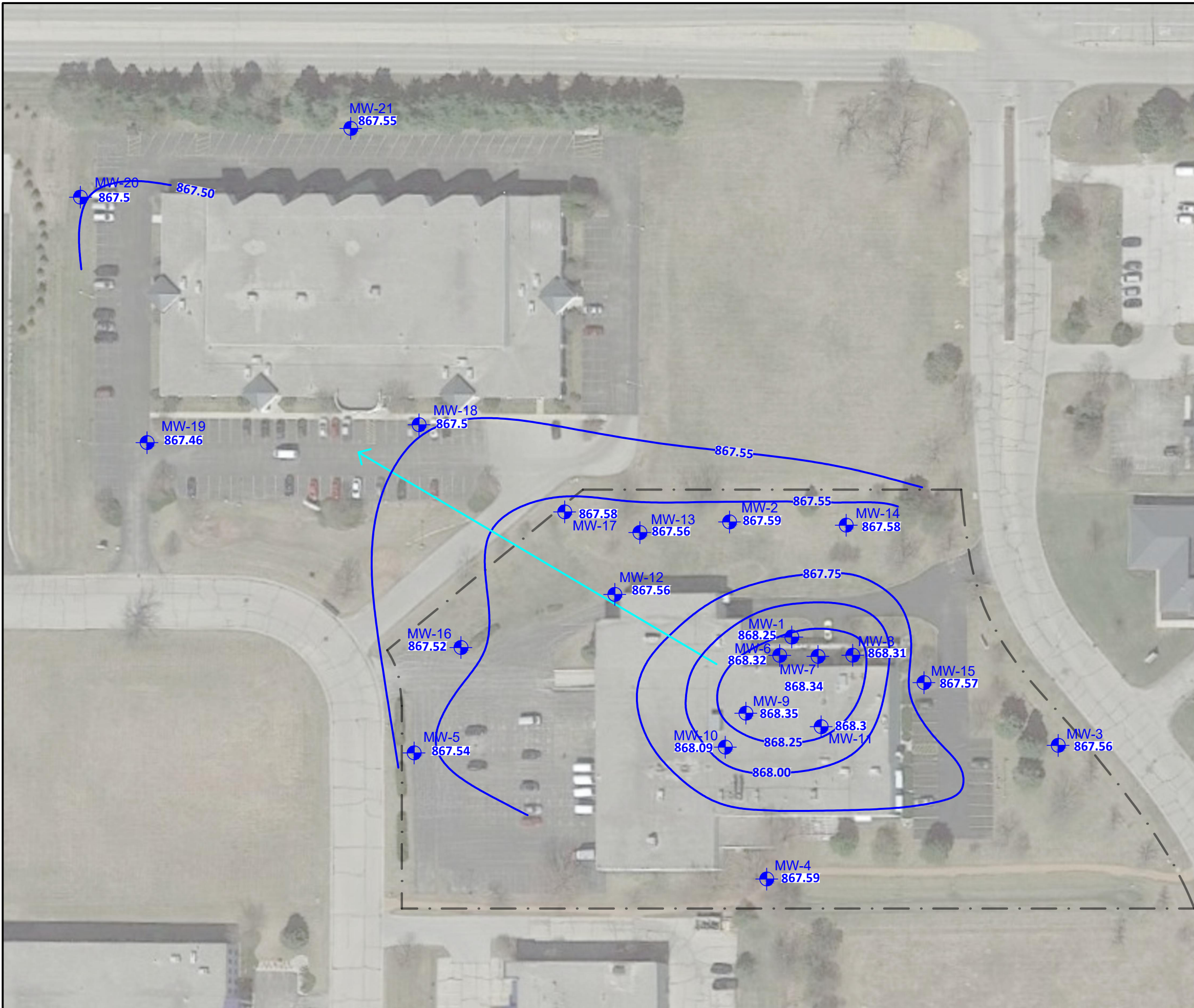
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REMEDIAL IMPLEMENTATION REPORT

**GROUNDWATER FLOW
(JUNE 16, 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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	3B
DATE: 9/12/2022	PROJECT NO: 20.0156045.02	REVISION NO.	

© 2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 3C SEPTEMBER 12, 2022 PAMELA REHBEIN

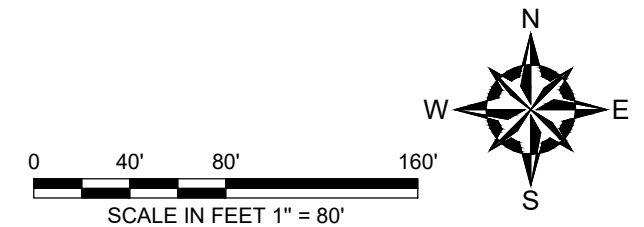


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 GROUNDWATER MONITORING WELL
- 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.
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.
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NO.	ISSUE/DESCRIPTION	BY	DATE

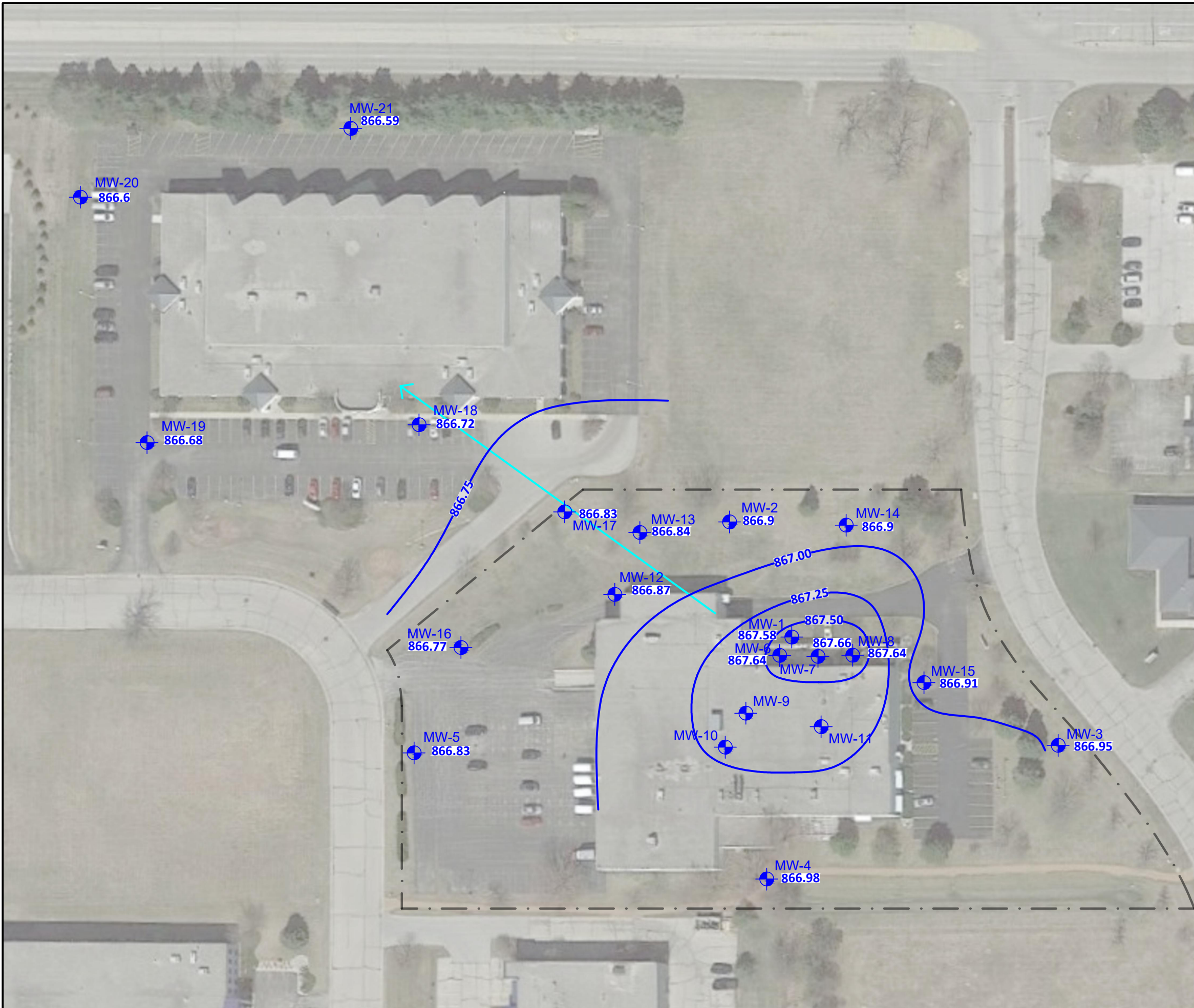
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REMEDIAL IMPLEMENTATION REPORT

**GROUNDWATER FLOW
(JULY 13, 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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	3C
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	

© 2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 3D SEPTEMBER 12, 2022 PAMELA REHBEIN

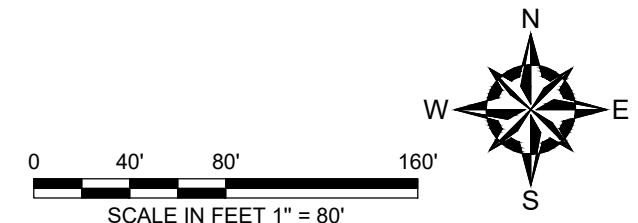


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- 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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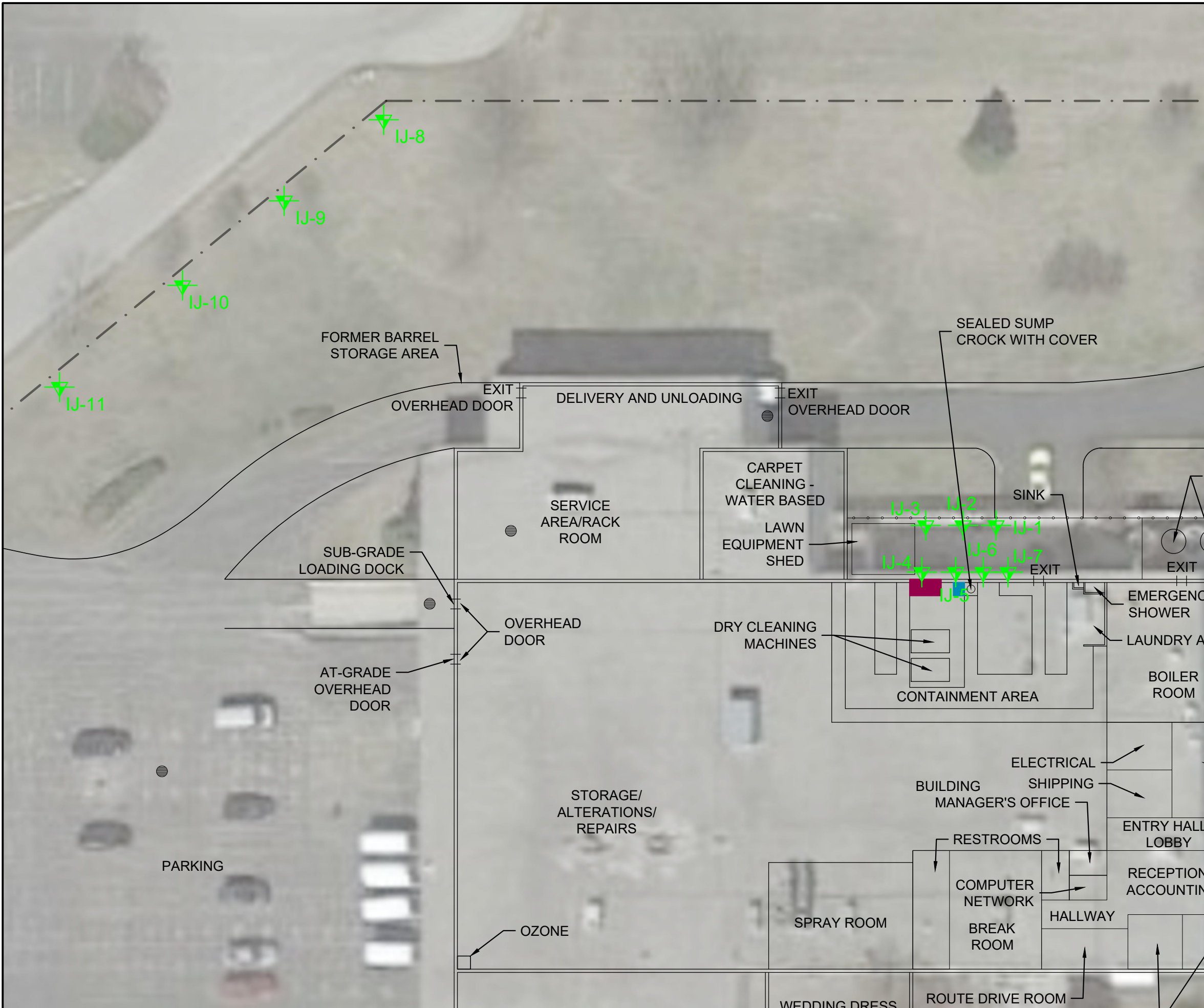
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REMEDIAL IMPLEMENTATION REPORT

**GROUNDWATER FLOW
(AUGUST 12, 2022)**

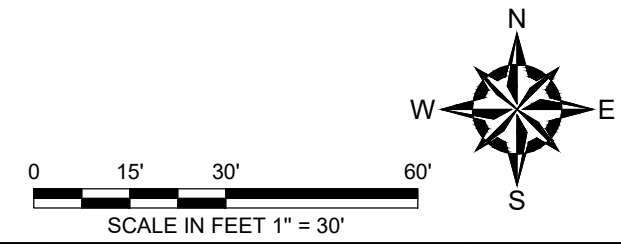
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066	
PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	3D
DATE: 9/12/2022	PROJECT NO: 20.0156045.02	REVISION NO.	



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- INJECTION WELL
- DRAIN
- 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.
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REMEDIAL IMPLEMENTATION REPORT

INJECTION WELL LOCATIONS

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
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	4
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	

SHEET NO. OF

©2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 8 SEPTEMBER 14, 2022 PAMELA REHBEIN

MW-17	PCE (ug/L)
4/6/2022	57.7
6/16/2022	58.7
7/13/2022	66.2
8/12/2022	67.6

MW-13	PCE (ug/L)
4/6/2022	58
6/16/2022	42.3
7/13/2022	41
8/12/2022	34.5

MW-1	PCE (ug/L)
4/6/2022	48.3
6/16/2022	28.3
7/13/2022	74.7
8/12/2022	11.3

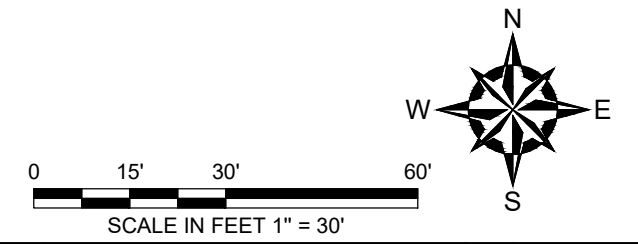
MW-7	PCE (ug/L)
4/6/2022	197
6/16/2022	48.8
7/13/2022	66.3
8/12/2022	31.2

MW-6	PCE (ug/L)
4/5/2022	169
6/16/2022	41.4
7/13/2022	47.4
8/12/2022	15.6

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MW-1 GROUNDWATER MONITORING WELL
- IJ-8 INJECTION WELL
- DRAIN
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK REMOVED IN 2019
- 58 PCE DISTRIBUTION IN GROUNDWATER (ug/L)

- NOTES**
- 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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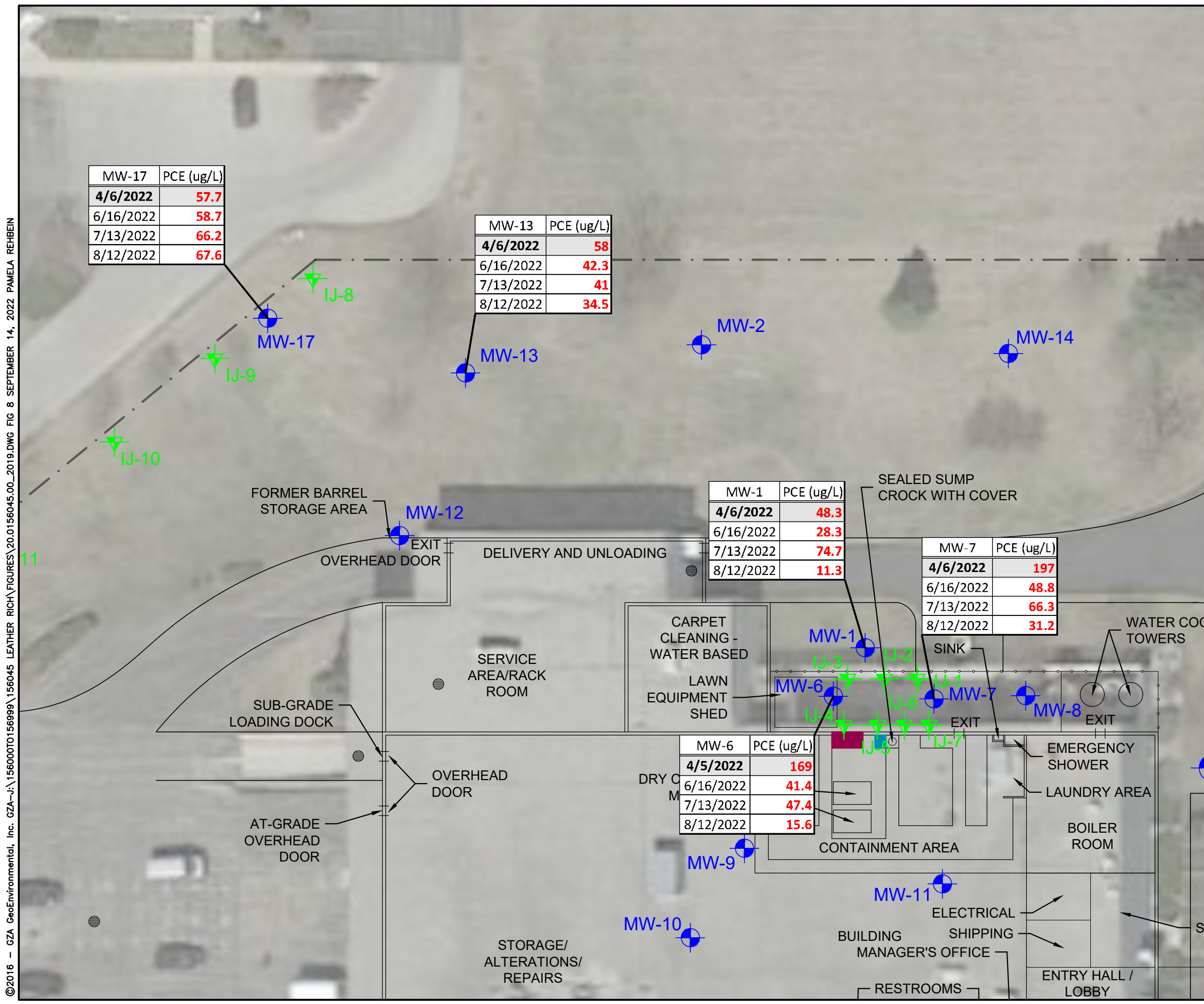
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REMEDIAL IMPLEMENTATION REPORT

GROUNDWATER PCE DISTRIBUTION (APRIL - AUGUST 2022)

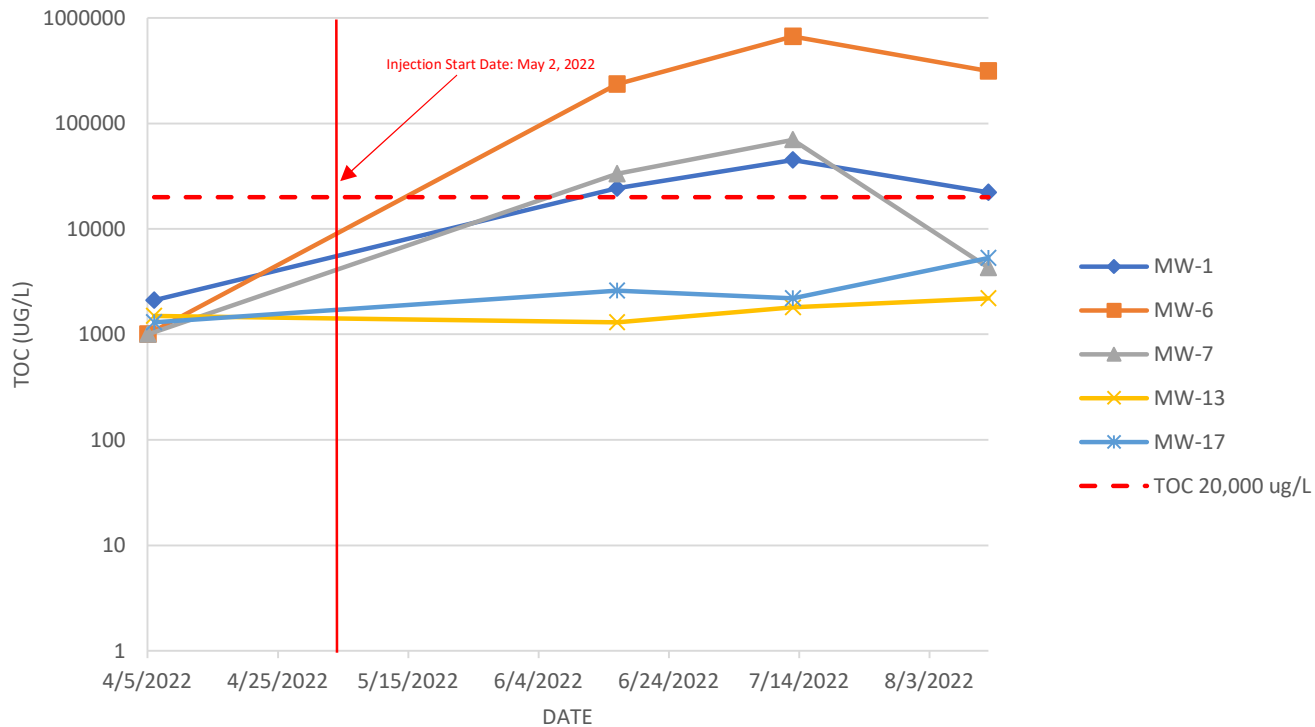
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066	
PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY: SIS	FIG
DESIGNED BY: SIS	DRAWN BY: PLR	SCALE: see above	5
DATE: 9/12/2022	PROJECT NO. 20.0156045.02	REVISION NO.	



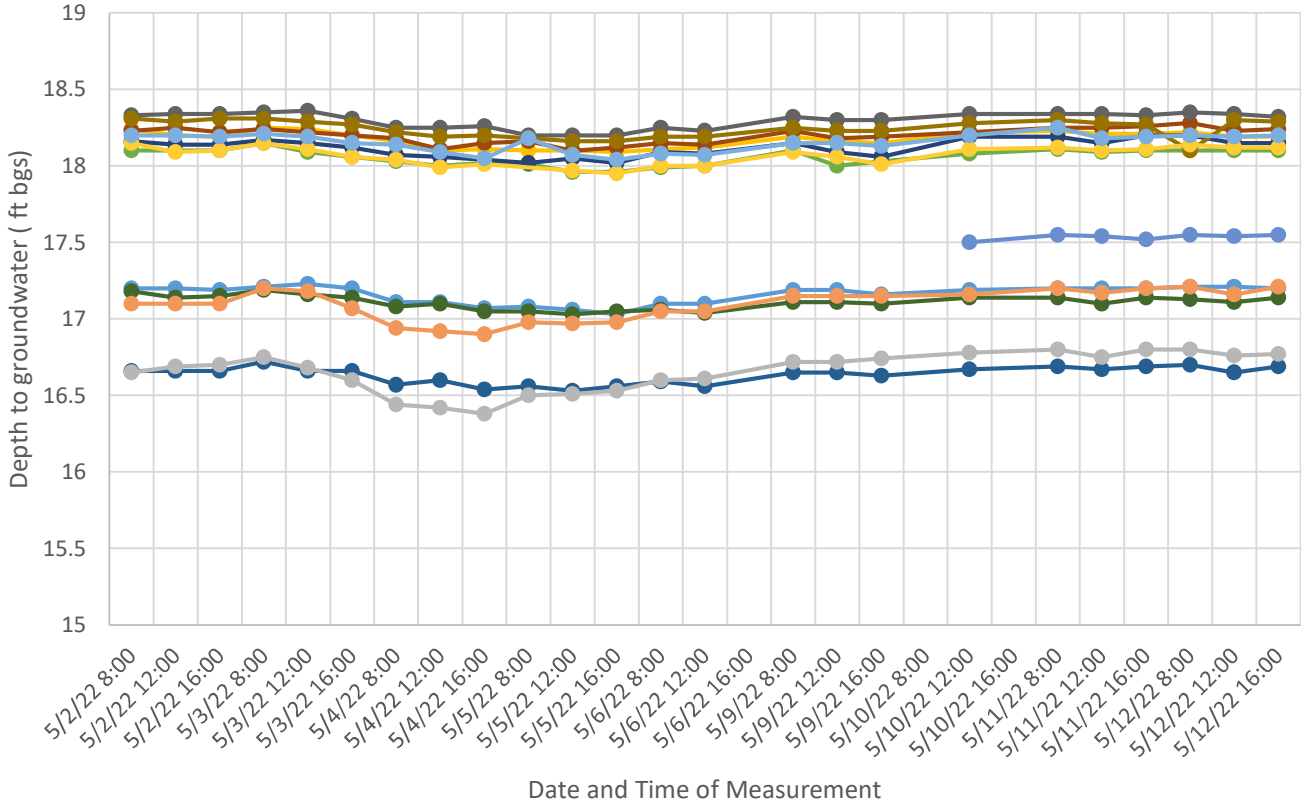


GRAPHS

GRAPH 1
TOC VS TIME

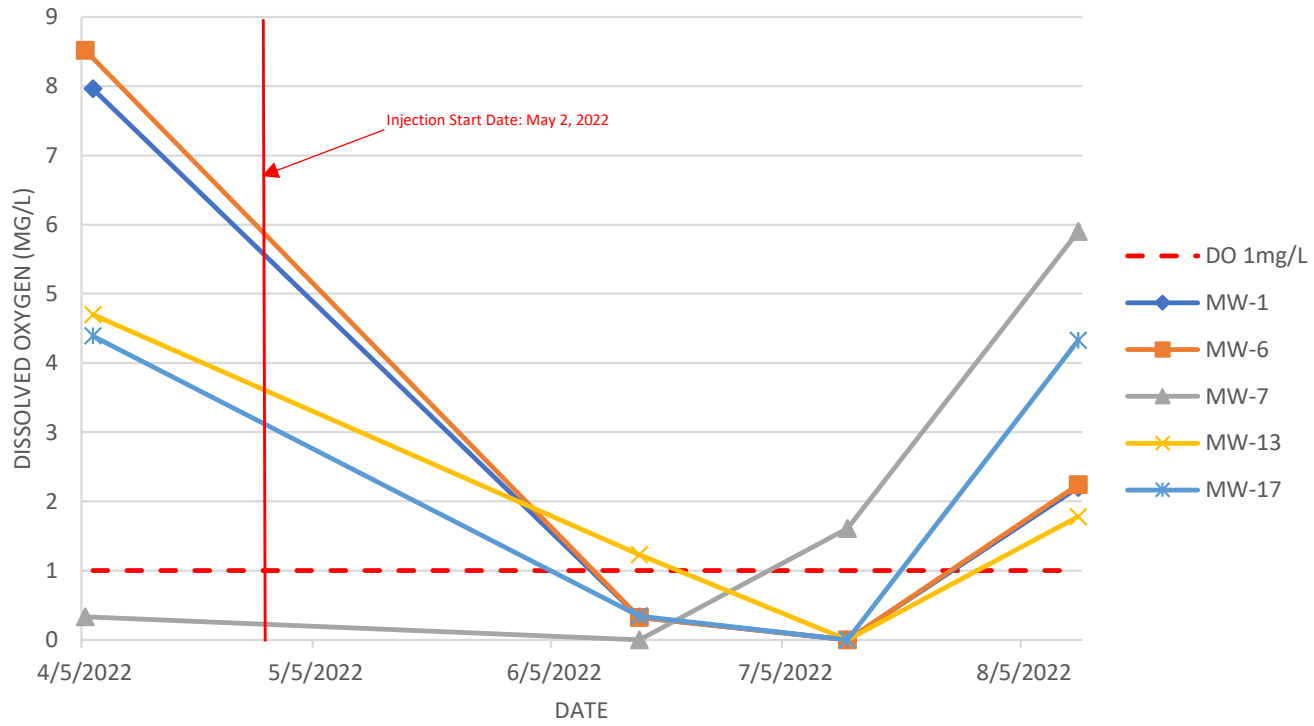


GRAPH 2 - GROUNDWATER LEVELS DURING INJECTIONS

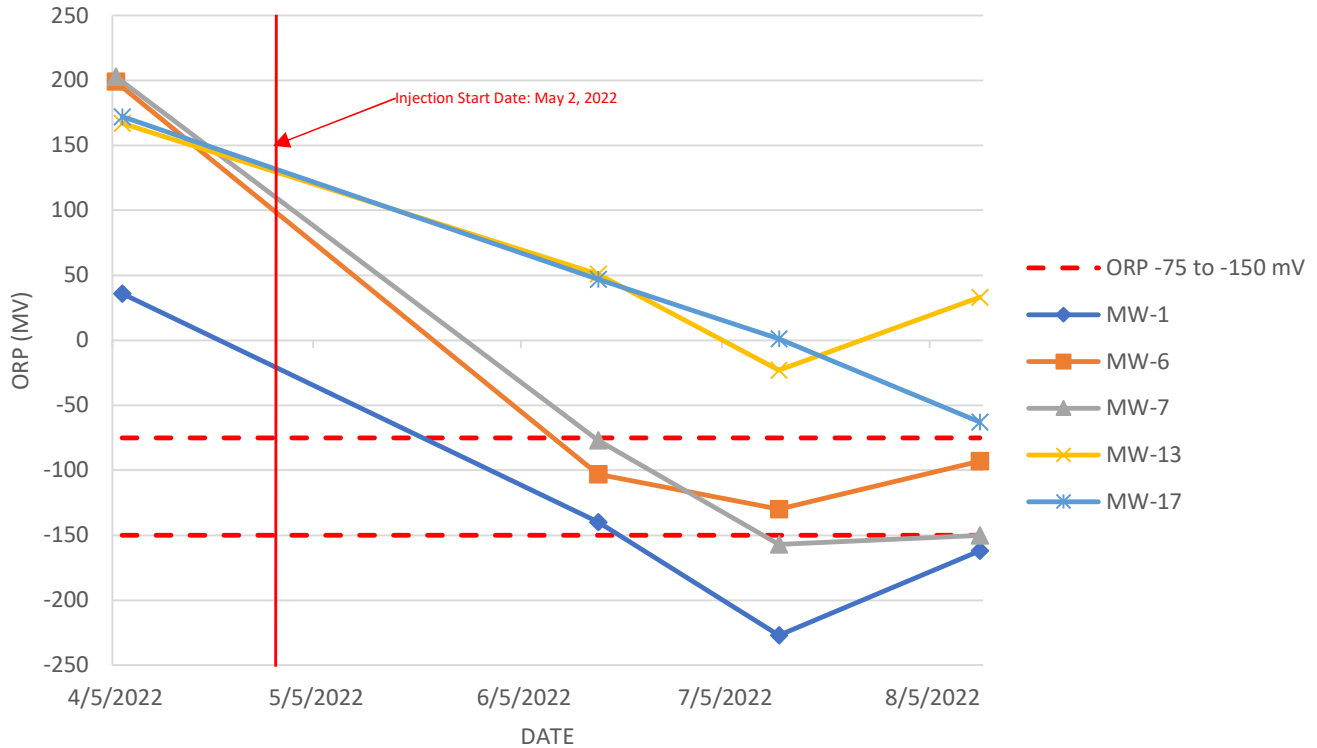


- MW-1
- MW-2
- MW-6
- MW-7
- MW-8
- MW-9
- MW-11
- MW-14
- MW-15
- MW-17
- MW-18
- MW-20
- PZ-1
- PZ-2

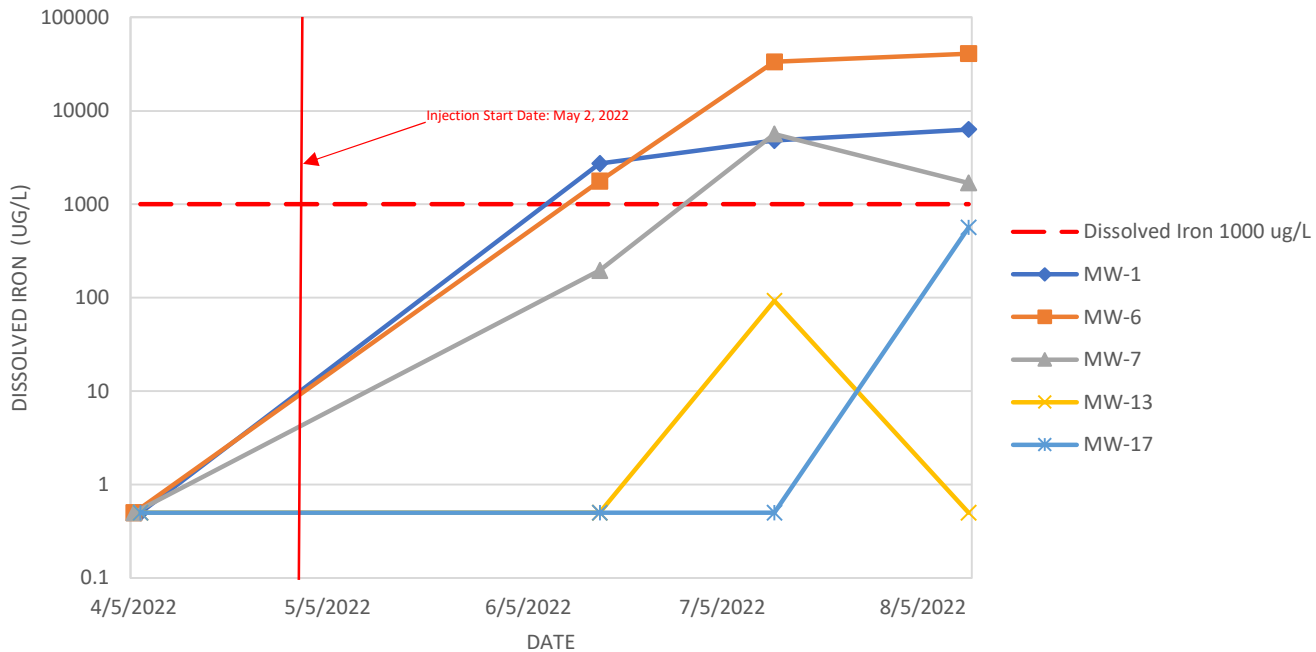
GRAPH 3
DISSOLVED OXYGEN VS TIME



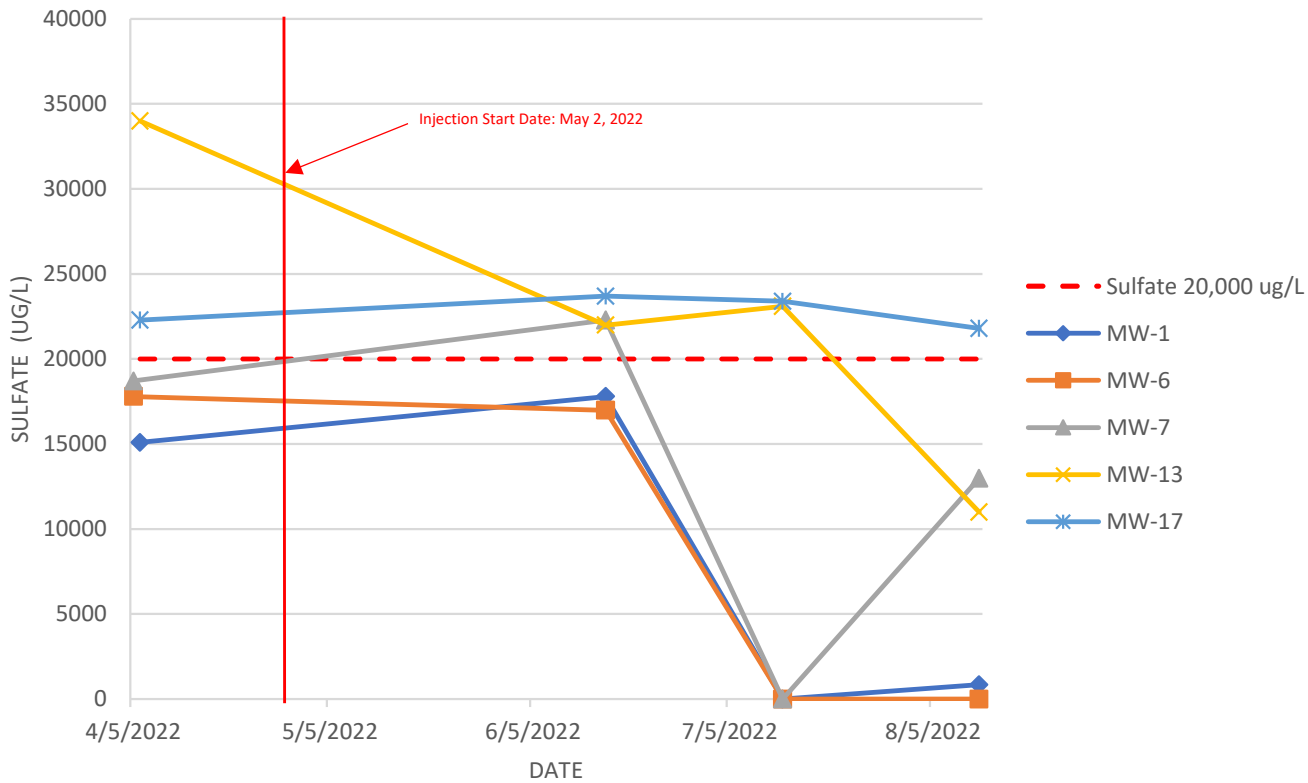
GRAPH 4
ORP VS TIME



GRAPH 5
DISSOLVED IRON VS TIME



GRAPH 6
SULFATE VS TIME





APPENDIX A

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 and 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.



APPENDIX B

PRE-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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

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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

REPORT OF LABORATORY ANALYSIS

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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

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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

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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	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 40242989001 Collected: 04/05/22 10:45 Received: 04/06/22 08:00 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7 Lab ID: 40242989002 Collected: 04/05/22 11:40 Received: 04/06/22 08:00 Matrix: Water									
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	

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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	

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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	

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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	

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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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-20 Lab ID: 40242989010 Collected: 04/05/22 13:45 Received: 04/06/22 08:00 Matrix: Water									
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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-21 Lab ID: 40242989011 Collected: 04/05/22 00:00 Received: 04/06/22 08:00 Matrix: Water									
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	

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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	

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40242989

QC Batch: 412607 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: 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

Parameter	Units	2376147		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40242840003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
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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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	2375707		2375708		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Iron, Dissolved	ug/L	<29.6	10000	9960	9940	100	99	75-125	0	20	

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

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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	2375685		2375686		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40242620001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Sulfate	mg/L	101J	2000	2000	2140	2160	102	103	90-110	1	15	

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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		2375941		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
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		2376888		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Total Organic Carbon	mg/L	3.3	6	6	8.8	9.0	91	94	80-120	2	10	

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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.

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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		

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40242989

ALL SHADED AREAS are for LAB USE ONLY

Company: **GZA Geo Environmental**
 Address: **17975 W Sarah Lane**
 Report To: **Kenn.Hedinger@gza.com**
 Copy To: **Sheryl.Stephenson@gza.com**

Billing Information: **SAME**
 Email To: **Kevin.Hedinger@gza.com**
 Site Collection Info/Address:

Customer Project Name/Number: **20.0156045.00**
 State: **WI** County/City: **Oconomowoc** Time Zone Collected: [] PT [] MT [] CT [] ET
 Phone: **262 202 1716** Site/Facility ID #: Compliance Monitoring? [] Yes [] No
 Email: **Sheryl.Stephenson@gza.com**
 Collected By (print): **Sheryl Stephenson** Purchase Order #: DW PWS ID #: DW Location Code:
 Collected By (signature): *[Signature]* Turnaround Date Required: Immediately Packed on Ice: 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): Yes [] No Analysis: **Diss. Fe**

* 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)		Composite End		Res Cl	# of Ctns	Analyses										
			Date	Time	Date	Time			CVOC	Methane/Ethane/Ethene	Sulfate	Metals (diss. Fe)	TOC						
MW-6	GW	G	4/5/22	1045			9	X	X	X	X	X							
MW-7	GW	G	4/5/22	1140			9	X	X	X	X	X							
MW-8	GW	G	4/5/22	1225			9	X	X	X	X	X							
MW-11	GW	G	4/5/22	1325			3	X											
MW-9	GW	G	4/5/22	1405			3	X											
PZ-2	GW	G	4/5/22	1435			3	X											
MW-10	GW	G	4/5/22	1512			3	X											
MW-18	GW	G	4/5/22	12:01			9	X	X	X	X	X							
MW-19	GW	G	4/5/22	12:48			3	X											
MW-20	GW	G	4/5/22	13:45			3	X	X	X	X	X							

Container Preservative Type **: 3 3 U 1 2

** 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 Profile/Line: **40242989**

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: SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: **2763735**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 MTJL LAB USE ONLY

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

Relinquished by/Company: (Signature) *[Signature]*
GZA Geo Environmental
 Date/Time: **4/5/22 1700**

Received by/Company: (Signature) *[Signature]*
CS Logistics
 Date/Time: **4/5/22 1700**

Relinquished by/Company: (Signature) *[Signature]*
CS Logistics
 Date/Time: **4-6-22 0800**

Received by/Company: (Signature) *[Signature]*
Josh Pollack Pace
 Date/Time: **4-6-22 0800**

Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **Page 22 of 25**
 of: _____



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant 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:

Address: 17975 W Sarah Lane, Brookfield

Address: SAME

Report To: Kenn.Hedinger@gza.com

Email To: Kenn.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 [] PT [] MT [] CT [] ET

Phone: Email:

Site/Facility ID #: Compliance Monitoring? [] Yes [] No

DW PWS ID #: DW Location Code:

Collected By (print): Sheryl Stephenson

Purchase Order #: Quote #:

Immediately Packed on Ice: [] Yes [] No

Collected By (signature): [Signature]

Turnaround Date Required:

Field Filtered (if applicable): [] 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)

Analysis: Diss Fe

* 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)		Composite End		Res Cl	# of Ctns	C	U	T	S	P	M	A	O	T	L	B	V	O	Other	Lab Profile/Line:	
			Date	Time	Date	Time																		
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

CuOC
Methane Ethene Ethene
Sulfate
Metals (diss. Fe)
TOC

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: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

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: °C
Cooler 1 Therm Corr Factor: °C
Cooler 1 Corrected Temp: °C
Comments:

Relinquished by/Company: (Signature)

Date/Time: 4/5/22 1700

Received by/Company: (Signature) C.S Logistics 4/5/22 1700

Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:

Relinquished by/Company: (Signature) CS Logistics

Date/Time: 4/6/22 0800

Received by/Company: (Signature) Pace

Date/Time: 4/6/22 0800

Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:


Received by/Company: (Signature)

Date/Time:

Non Conformance(s): YES / NO

Page: Page 23 of 25
of:

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

Person examining contents:
 Date: 4.6.22 / Initials: AP
 Labeled By Initials: AP

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Pg #</u> <u>4.6.22 AP</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>011: "14:33" 4/6/22 AP</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>477</u>		

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

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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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
40243106011	MW-17	SM 5310C	TJJ	1	PASI-G
		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
40243106012	MW-12	SM 5310C	TJJ	1	PASI-G
		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
40243106013	DUP-2	SM 5310C	TJJ	1	PASI-G
40243106014	TRIP	EPA 8260	EIB	8	PASI-G
		EPA 8260	EIB	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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	

REPORT OF LABORATORY ANALYSIS

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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	

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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	

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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	

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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	

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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	

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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	

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ANALYTICAL RESULTS

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: PZ-3 Lab ID: 40243106010 Collected: 04/06/22 11:10 Received: 04/07/22 08:00 Matrix: Water									
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
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-17 Lab ID: 40243106011 Collected: 04/06/22 11:55 Received: 04/07/22 08:00 Matrix: Water									
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	
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	
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	
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	
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	

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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	

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch:	412708	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: 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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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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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch:	412611	Analysis Method:	EPA 8260
QC Batch 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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40243104001 Result	Spike Conc.	Spike Conc.	Result						
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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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		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
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		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Sulfate	mg/L	5.0J	100	100	116	115	111	110	90-110	1	15	M0	

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QUALITY CONTROL DATA

Project: 20.0156045.00 LRI BASELINE
Pace Project No.: 40243106

QC Batch: 412664 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: 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		2376841		2376842		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfate	mg/L	22.3	20	20	20	44.0	44.1	108	109	90-110	0	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2376843 2376844

Parameter	Units	35707486008		2376843		2376844		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfate	mg/L	27.6	100	100	100	132	133	104	105	90-110	1	15

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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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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.

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

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



4/02/3106
SAME

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

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: _____

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	N	N	Y	N	Pick Letter	Analyses Requested	Filtered? (YES/NO)	Preservation (CODE)	Quote #	Mail To Contact	Mail To Company	Mail To Address	Invoice To Contact	Invoice To Company	Invoice To Address	Invoice To Phone	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #	
		DATE	TIME																							
001	MW-3	4/6/22	0852	GW		X						CVOC														
002	MW-15	4/6/22	0929	GW		X	X	X	X	X		Methane/Ethane/Ethene														
003	MW-1	4/6/22	1016	GW		X	X	X	X	X		Surfate														
004	PZ-1	4/6/22	1055	GW		X	X	X	X	X		Diss. Fe														
005	MW-4	4/4/22	1204	GW		X						TOC														
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): _____

Relinquished By: <i>[Signature]</i>	Date/Time: 4/6/22 1700	Received By: CS Logistics	Date/Time: 4/6/22 1700
Relinquished By: CS Logistics	Date/Time: 4/7/22 0800	Received By: Tompkins	Date/Time: 4/7/22 0800
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Sample Receipt pH: OK / Adjusted
 Cooler Custody Seal Present (Not Present)
 Intact / Not Intact

Sample Preservation Receipt Form

Client Name: GZA

Project # W0243156

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed: TP Date/ Time:

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

Pace Lab #	Glass						Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn Act pH ≥9	NaOH, pH ≥12	HNO ₃ 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																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
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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 H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	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 H ₂ SO ₄					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: GZA

WO#: 40243106

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

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

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.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>TP #</u> <u>TP 4/7/22</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. <u>TP 4/7/22</u>
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>36013 Dup-2 on bottles TP 4/7/22</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>TP 4/7/22</u>
Pace Trip Blank Lot # (if purchased): <u>4771</u>		

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



APPENDIX C

INJECTION WELL CONSTRUCTION DOCUMENTATION

Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-1
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 31.10" Long. 88° 28' 26.34" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 3 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. R.W Sidley 30/100</p> <p>b. Volume added 0.25 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. R.W Sidley # 5</p> <p>b. Volume added 1.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex</p> <p>c. Slot size: 0.01 in.</p> <p>d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p>	<p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 2 in.</p> <p>M. O.D. well casing 1.315 in.</p> <p>N. I.D. well casing 1.029 in.</p>
---	--

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-2
Facility License, Permit or Monitoring No. NA	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 31.11" Long. 88° 28' 26.52" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

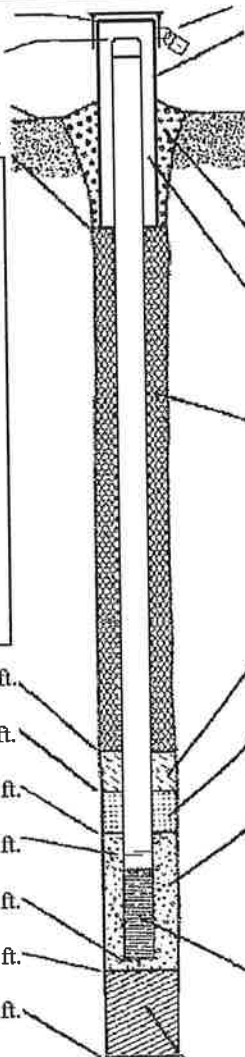
<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 3 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. R.W Sidley 30/100</p> <p>b. Volume added 0.25 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. R.W Sidley # 5</p> <p>b. Volume added 1.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex</p> <p>c. Slot size: 0.01 in.</p> <p>d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p>	<p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 2 in.</p> <p>M. O.D. well casing 1.315 in.</p> <p>N. I.D. well casing 1.029 in.</p>	

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Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-3
Facility License, Permit or Monitoring No. NA	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 31.11" Long. 88° 28' 26.67" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

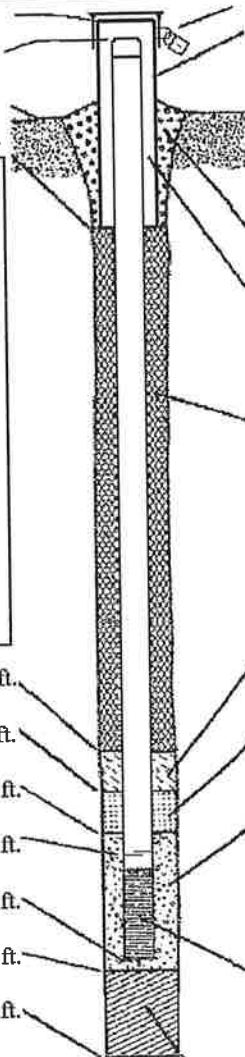
<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u></p> <p>17. Source of water (attach analysis, if required): <u>NA</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>17</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>18</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>20</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>30</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>L. Borehole, diameter <u>2</u> in.</p> <p>M. O.D. well casing <u>1.315</u> in.</p> <p>N. I.D. well casing <u>1.029</u> in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>NA-Flush</u> ft. c. Material: <u>Steel flush mount cover</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>3</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size <u>R.W Sidley 30/100</u></p> <p>a. _____ b. Volume added <u>0.25</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size <u>R.W Sidley # 5</u></p> <p>a. _____ b. Volume added <u>1.5</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **GZA GeoEnvironmental, Inc.**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-4
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 30.99" Long. 88° 28' 26.72" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u></p> <p>17. Source of water (attach analysis, if required): <u>NA</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>17</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>18</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>20</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>30</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>L. Borehole, diameter <u>2</u> in.</p> <p>M. O.D. well casing <u>1.315</u> in.</p> <p>N. I.D. well casing <u>1.029</u> in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>NA</u> Flush ft. c. Material: <u>Steel flush mount cover</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>3</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size <u>R.W Sidley 30/100</u></p> <p>a. _____ b. Volume added <u>0.25</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size <u>R.W Sidley # 5</u></p> <p>a. _____ b. Volume added <u>1.5</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-5
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 30.98" Long. 88° 28' 26.56" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 3 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. R.W Sidley 30/100 b. Volume added 0.25 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. R.W Sidley # 5 b. Volume added 1.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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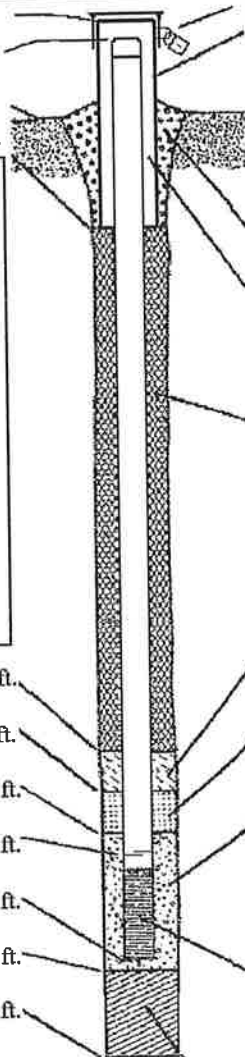
E. Bentonite seal, top _____ ft. MSL or 0.5 ft.	F. Fine sand, top _____ ft. MSL or 17 ft.
G. Filter pack, top _____ ft. MSL or 18 ft.	H. Screen joint, top _____ ft. MSL or 20 ft.
I. Well bottom _____ ft. MSL or 30 ft.	J. Filter pack, bottom _____ ft. MSL or 30 ft.
K. Borehole, bottom _____ ft. MSL or 30 ft.	L. Borehole, diameter 2 in.
M. O.D. well casing 1.315 in.	N. I.D. well casing 1.029 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-6
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 30.97" Long. 88° 28' 26.40" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u></p> <p>17. Source of water (attach analysis, if required): <u>NA</u></p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>17</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>18</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>20</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>30</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>30</u> ft.</p> <p>L. Borehole, diameter <u>2</u> in.</p> <p>M. O.D. well casing <u>1.315</u> in.</p> <p>N. I.D. well casing <u>1.029</u> in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>NA-Flush</u> ft. c. Material: <u>Steel flush mount cover</u> Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>3</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size <u>R.W Sidley 30/100</u></p> <p>a. _____ b. Volume added <u>0.25</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size <u>R.W Sidley # 5</u></p> <p>a. _____ b. Volume added <u>1.5</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.01</u> in. d. Slotted length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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Signature [Signature] Firm GZA GeoEnvironmental, Inc.

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-7
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 30.97" Long. 88° 28' 26.26" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

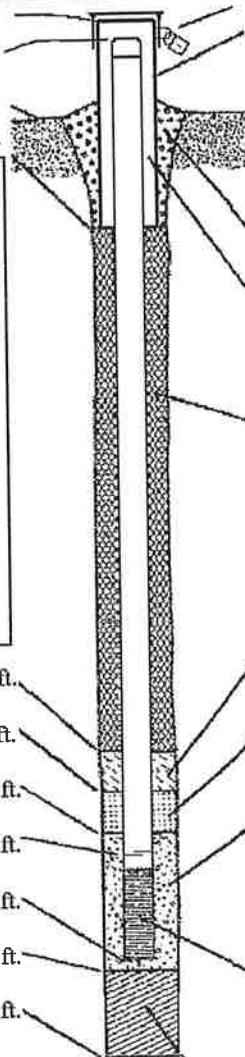
<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Other <input type="checkbox"/> _____ d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 3 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. R.W Sidley 30/100 b. Volume added 0.25 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. R.W Sidley # 5 b. Volume added 1.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____</p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____ b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> _____</p>
<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p>	<p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 2 in.</p> <p>M. O.D. well casing 1.315 in.</p> <p>N. I.D. well casing 1.029 in.</p>	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-8
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 32.39" Long. 88° 28' 28.84" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

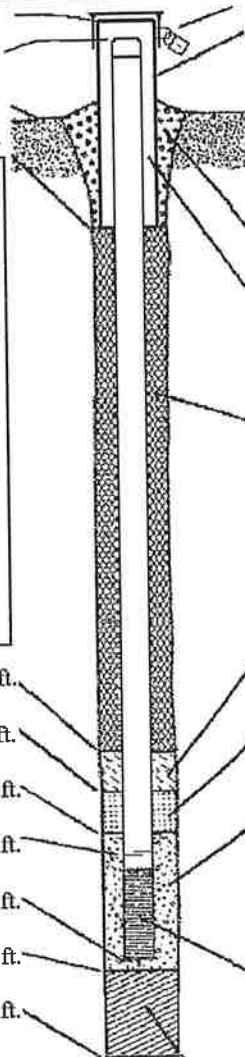
<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 8.25 in.</p> <p>M. O.D. well casing 2.35 in.</p> <p>N. I.D. well casing 2.05 in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 6 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size R.W Sidley 30/100</p> <p>a. _____ b. Volume added 0.5 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size R.W Sidley # 5</p> <p>a. _____ b. Volume added 3.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-9
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 32.15" Long. 88° 28' 29.23" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 8.25 in.</p> <p>M. O.D. well casing 2.35 in.</p> <p>N. I.D. well casing 2.05 in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 6 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size R.W Sidley 30/100</p> <p>a. _____ b. Volume added 0.5 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size R.W Sidley # 5</p> <p>a. _____ b. Volume added 3.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-10
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 31.96" Long. 88° 28' 29.58" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA Flush ft. c. Material: Steel flush mount cover Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 6 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size R.W Sidley 30/100</p> <p>a. _____ b. Volume added 0.5 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size R.W Sidley # 5</p> <p>a. _____ b. Volume added 3.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
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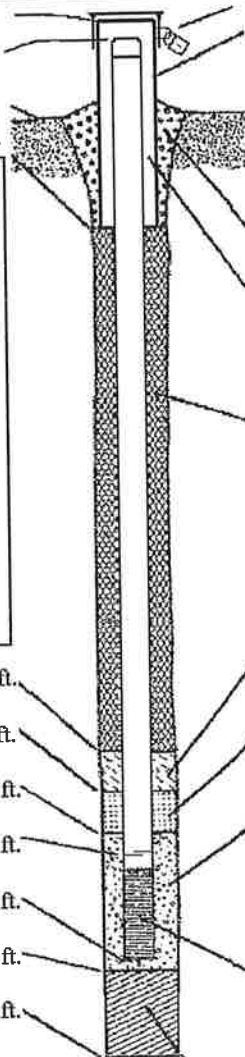
E. Bentonite seal, top _____ ft. MSL or 0.5 ft.	F. Fine sand, top _____ ft. MSL or 17 ft.
G. Filter pack, top _____ ft. MSL or 18 ft.	H. Screen joint, top _____ ft. MSL or 20 ft.
I. Well bottom _____ ft. MSL or 30 ft.	J. Filter pack, bottom _____ ft. MSL or 30 ft.
K. Borehole, bottom _____ ft. MSL or 30 ft.	
L. Borehole, diameter 8.25 in.	
M. O.D. well casing 2.35 in.	
N. I.D. well casing 2.05 in.	

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Facility/Project Name Leather Rich Inc	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name IJ-11
Facility License, Permit or Monitoring No. NA	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. 43° 4' 31.73" Long. 88° 28' 30.01" or	Wis. Unique Well No. NA DNR Well ID No. NA
Facility ID 268414850	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04 / 28 / 2022 m m d d y y y y
Type of Well Well Code 61 / JJ	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 15, T. 7 N, R. 17 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-Site Environmental Services, Inc.
Distance from Waste/Source ~250 ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe NA</p> <p>17. Source of water (attach analysis, if required): NA</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 0.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 17 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 18 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 20 ft.</p> <p>I. Well bottom _____ ft. MSL or 30 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 30 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 30 ft.</p> <p>L. Borehole, diameter 8.25 in.</p> <p>M. O.D. well casing 2.35 in.</p> <p>N. I.D. well casing 2.05 in.</p>	 <p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: NA-Flush ft. c. Material: Steel flush mount cover Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. 6 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size R.W Sidley 30/100</p> <p>a. _____ b. Volume added 0.5 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size R.W Sidley # 5</p> <p>a. _____ b. Volume added 3.5 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Monoflex c. Slot size: 0.01 in. d. Slotted length: 10 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
--	--

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Stephenson* Firm **GZA GeoEnvironmental, Inc.**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



APPENDIX D

JRW BIOREMEDIATION PRODUCT INFORMATION SHEETS

WILCLEAR PLUS[®]

LACTATE w/ACCELERITE[®]

PROVEN ELECTRON DONOR EFFICIENCY AND RAPID DECHLORINATION KINETICS OF SODIUM LACTATE ENHANCED BY ACCELERITE[®] NUTRIENT BLEND

Wilclear Plus[®] lactate with Accelerite[®] is a proprietary blend of neutral pH fatty acids combined with Accelerite[®] nutrient blend for use in enhanced anaerobic reductive dechlorination. Wilclear Plus[®] contains 61% fermentable material providing a high fermentable fraction with minimum amount of water.

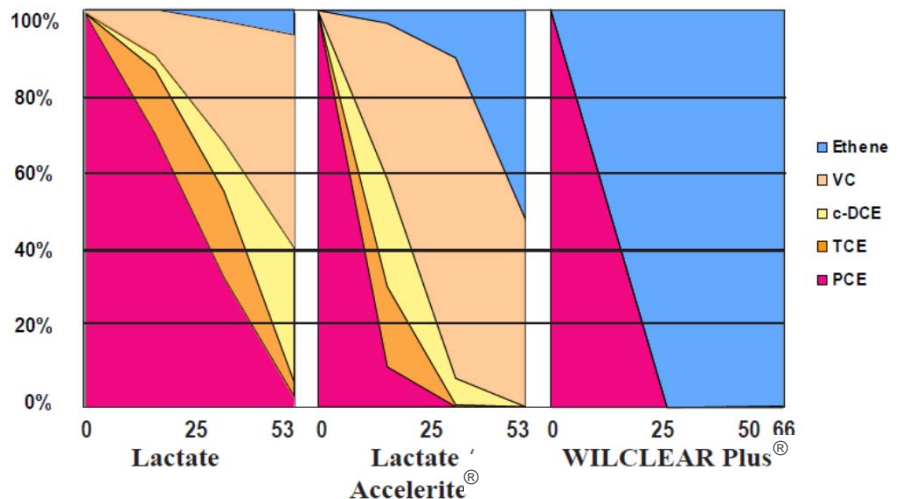
BENEFITS OF WILCLEAR PLUS[®]

Lactate provides carbon for rapid establishment of anaerobic conditions.

- Volatile fatty acids and fermentables provide a range of material to help promote the growth of an assortment of dechlorinating microbial populations.
- Accelerite[®] provides growth factors to increase efficiency and kinetics.

RAPID DECHLORINATION KINETICS

Microcosm studies comparing Wilclear Plus[®] to lactate and lactate plus Accelerite[®] showed that Wilclear Plus[®] demonstrated dechlorination kinetics faster than the other substrates. At 25 days, the Wilclear Plus[®] microcosm converted more than 99% of PCE to ethene.



TYPICAL PROPERTIES

- Sodium lactate: 33-40%
- Sodium propionate: 0-8%
- Sodium acetate: 0-8%
- Sodium butyrate: 0-8%
- Total Sodium Carboxylates: 40-45%
- Carbohydrates/metabolites: 15-20%
- Water: 30-38%

- pH: 7 ±1.0
- Viscosity: < 500cP at 20°C
- Specific gravity: 1.2 - 1.3
- Soluble in water
- Color: light to dark brown



JRW *BIOREMEDIATION* LLC

www.jrwbioremediation.com
(913)438-5544
info@jrwbiorem.com

LACTOIL[®]

SOY MICROEMULSION

CONCENTRATED FORMULATION PROVIDES SAVINGS THROUGH INCREASED DISTRIBUTION, EXTENDED LONGEVITY, HIGH EFFICIENCY

LACTOIL[®] is a thermodynamically stable microemulsion designed to provide the subsurface distribution and remediation performance characteristics of a highly soluble substrate with the longevity of a vegetable oil.



Neat LACTOIL[®]



LACTOIL[®]/Water
After 4 Weeks

INCREASED SUBSURFACE DISTRIBUTION:

- Average particle size < 1 micron
- High emulsion stability allows for greater subsurface transport

EXTENDED LONGEVITY:

- 98% fermentable emulsion
- Emulsion particles contain both readily soluble and slowly soluble material

INCREASED DEGRADATION RATES:

- Provides sustained lactate for accelerated metabolism

HIGHER EFFICIENCY:

- Increased contaminant degradation per unit of fermentable product injected as compared to standard EVO

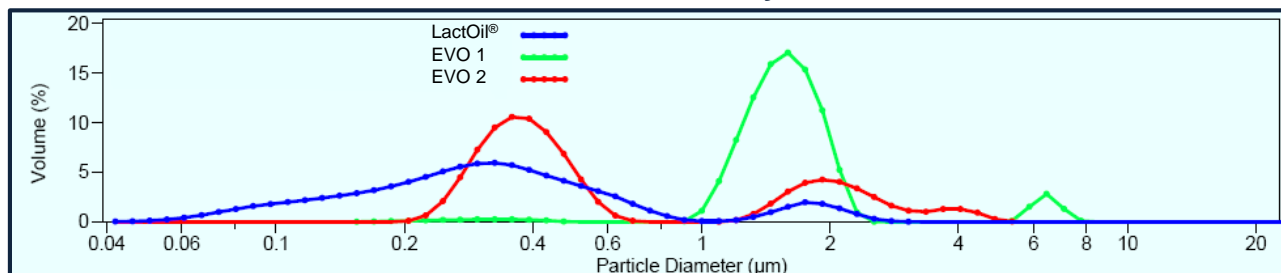
CONTAMINANTS TREATED:

- Chlorinated solvents, nitrates, perchlorate, RDX, metals, trichloropropane, mine impacted water

TREATMENT APPLICATIONS:

- Permanent wells, direct push, excavation backfill, bedrock

Particle Size Analysis



Analysis conducted using 1:10 dilution on a Beckman Coulter Light Scattering Particle Size Analyzer



JRW *BIOREMEDIATION* LLC

www.jrwbioremediation.com

(913)438-5544

info@jrwbiorem.com



APPENDIX E

POST-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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

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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

REPORT OF LABORATORY ANALYSIS

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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

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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	Ethane	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

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ANALYTICAL RESULTS

Project: 20.0156045.01
Pace Project No.: 40246766

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 40246766001 Collected: 06/16/22 09:19 Received: 06/17/22 07:50 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7 Lab ID: 40246766002 Collected: 06/16/22 10:00 Received: 06/17/22 07:50 Matrix: Water									
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

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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

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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	

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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

Parameter	Units	2412262					% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
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		2412511		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.						
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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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418837 Analysis Method: EPA 6010D
QC Batch 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	2411978		2411979		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246456005	MS Spike Conc.	MSD Spike Conc.	MS Result						
Iron, Dissolved	ug/L	92600	10000	10000	102000	103000	95	100	75-125	0	20

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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418738 Analysis Method: EPA 8260
QC Batch 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246723002 Result	Spike Conc.	Spike Conc.	Conc.								
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	47.9	50.3	96	101	70-130	5	20	
Tetrachloroethene	ug/L	<0.41	50	50	50	52.6	54.8	105	110	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50	52.9	55.4	106	111	70-130	5	20	
Trichloroethene	ug/L	<0.32	50	50	50	50.2	52.8	100	106	70-130	5	20	
Vinyl chloride	ug/L	<0.17	50	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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QUALITY CONTROL DATA

Project: 20.0156045.01
Pace Project No.: 40246766

QC Batch: 418748 Analysis Method: EPA 8260
QC Batch 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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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	2412570		2412571		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40246773001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Sulfate	mg/L	16.7	20	20	38.1	38.0	107	107	90-110	0	15	

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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	2413845		2413846		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40246555005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Total Organic Carbon	mg/L	5.1	12	12	16.4	16.9	94	98	80-120	3	10	

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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		

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CHAIN-OF-CUSTODY Analytical Request Document

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

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

40246766

ALL SHADED AREAS are for LAB USE ONLY

Company: GZA GeoEnvironmental
 Address: Brookfield, WI
 Report To: Sheryl Stepherson
 Copy To: _____
 Billing Information: SAME
 Email To: sherylstepherson@GZA.com
 Site Collection Info/Address: _____

Customer Project Name/Number: 20.0156045.01
 State: WI County/City: Oconomowoc Time Zone Collected: [] PT [] MT [] CT [] ET
 Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? [] Yes [] No
 Email: _____
 Collected By (print): Sheryl Stepherson Purchase Order #: _____ DW PWS ID #: _____
 Quote #: _____ DW Location Code: _____
 Collected By (signature): _____ Turnaround Date Required: _____ Immediately Packed on Ice: [] Yes [] No
 Sample Disposal: _____ Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
 [] Archive: _____ Field Filtered (if applicable): [] Yes [] No
 [] Hold: _____ Analysis: Diss Iron

* 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-6	GW	G	6/16/22	0919				
MW-7	GW	G	6/16/22	1000				
MW-1	GW	G	6/16/22	1040				
MW-13	GW	G	6/16/22	1149				
MW-17	GW	G	6/16/22	1240				
TRIP	W	-	6/16/22	-				

Container Preservative Type **

3	3	U	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

Analyses

CWOCs	M/E/E (diss. gases)	Sulfate	TOC	Diss Iron																
-------	---------------------	---------	-----	-----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Lab Project Manager: _____

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 Solids Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____ Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: _____ Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: _____ Y N NA

LAB USE ONLY:
 Lab Sample # / Comments:

001
002
003
004
005
006

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: _____ °C
 Cooler 1 Therm Corr. Factor: _____ °C
 Cooler 1 Corrected Temp: _____ °C
 Comments: ①

Relinquished by/Company: (Signature) [Signature] GZA Date/Time: 6/16/22 2:45pm Received by/Company: (Signature) CS Logistics Date/Time: 6/16/22 2:45pm

Relinquished by/Company: (Signature) CS Logistics Date/Time: 6/17/22 0750 Received by/Company: (Signature) Anthony Werdel Date/Time: 6/17/22 0750

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: Page 18 of 20
 of: _____

Sample Preservation Receipt Form

Client Name: GZA GeoEnv. Project # 402416766

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: 1003112 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																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			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			

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA GeoEnv.
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: _____
WO#: 40246766

 40246766

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

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: 6/17/22 / Initials: RL
 Labeled By Initials: mlt

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no P# #, phone</u> <u>6/17/22 RL</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>004 B03N: "094"</u> <u>6/17/22 RL</u>
-Includes date/time/ID/Analysis Matrix: <u>LJ</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>483</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

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ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 40248079001 Collected: 07/13/22 11:09 Received: 07/14/22 08:00 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7 Lab ID: 40248079002 Collected: 07/13/22 13:19 Received: 07/14/22 08:00 Matrix: Water									
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

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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

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ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40248079

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-1 Lab ID: 40248079003 Collected: 07/13/22 13:57 Received: 07/14/22 08:00 Matrix: Water									
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
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-13 Lab ID: 40248079004 Collected: 07/13/22 14:47 Received: 07/14/22 08:00 Matrix: Water									
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	
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	
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	
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	
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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-17									
Lab ID: 40248079005									
Collected: 07/13/22 15:27 Received: 07/14/22 08:00 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: TRIP									
Lab ID: 40248079006									
Collected: 07/13/22 00:00 Received: 07/14/22 08:00 Matrix: Water									
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

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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

Parameter	Units	2425642					% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
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		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
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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QUALITY CONTROL DATA

Project: 20.0156045.02
Pace Project No.: 40248079

QC Batch: 421216 Analysis Method: EPA 6010D
QC Batch 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	2426058		2426059		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40248077001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Iron, Dissolved	ug/L	<29.6	10000	10000	10400	10300	104	103	75-125	1	20	

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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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40248079002 Result	Spike Conc.	Spike Conc.	Conc.								
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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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		40248079002		40248079003		40248079004		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Sulfate	mg/L	<2.2	100	100	105	111	104	110	110	90-110	5	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424386 2424387

Parameter	Units	40248091001		40248091002		40248091003		40248091004		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Sulfate	mg/L	162	200	200	353	373	96	106	106	90-110	6	15	

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425189 2425190

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

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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.

REPORT OF LABORATORY ANALYSIS

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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		

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40248079



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant 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**
 Address: **17975 W Sarah Lane**

Billing Information: **SAME**

Report To: **Sheryl Stephenson**
 Copy To: **NA**

Email To: **1**
 Site Collection Info/Address:

Customer Project Name/Number: **20-0156045-02**

State: **WI** County/City: **1** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: **262 202 1716**
 Email: **Sheryl.Stephenson@GZA.com**
 Collected By (print): **Sheryl Stephenson**

Site/Facility ID #: **922-15**
 Purchase Order #: **Normal TAT**

Compliance Monitoring? **[] Yes [] No**
 DW PWS ID #: **Diss Iron**
 DW Location Code:

Collected By (Signature): **[Signature]**
 Sample Disposal: **[] Dispose as appropriate [] Return [] Archive: [] Hold:**

Turnaround Date Required: **Normal TAT**
 Rush: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)**

Immediately Packed on Ice: **[X] Yes [] No**
 Field Filtered (if applicable): **[X] Yes [] No**
 Analysis: **Diss Iron**

* 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)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-6	GW	G	7/13/22	1109			9	X
MW-7	GW	G	7/13/22	1319			9	X
MW-1	GW	G	7/13/22	1357			9	X
MW-13	GW	G	7/13/22	1447			9	X
MW-17	GW	G	7/13/22	1527			9	X
TRIP	W	/					1	X

Container Preservative Type **

3 3 2 1 U

Lab Project Manager:

Analyses

CVOCs	methane / ethane / ethene	TOC	Diss Iron	Sulfate
--------------	----------------------------------	------------	------------------	----------------

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 by 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 Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA

LAB USE ONLY:
 Lab Sample # / Comments:

001
002
003
004
005
006

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#: **001**
 Cooler 1 Temp Upon Receipt: **001** °C
 Cooler 1 Therm Corr. Factor: **001** °C
 Cooler 1 Corrected Temp: **001** °C

Relinquished by/Company: (Signature) **GZA**
 Relinquished by/Company: (Signature) **C.S Logistics**
 Relinquished by/Company: (Signature)

Date/Time: **7/13/22 1800**
 Date/Time: **7/14/22 0800**
 Date/Time:

Received by/Company: (Signature) **C.S Logistics**
 Received by/Company: (Signature) **Susan Kille Pace**
 Received by/Company: (Signature)

Date/Time: **7/13/22 1800**
 Date/Time: **7/14/22 0800**
 Date/Time:

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

Comments:
 Trip Blank Received: **Y N NA**
 HCL MeOH TSP Other
 Non Conformance(s): **Page 17 of 19**
 YES / NO of: **1**

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA

Project #: WO#: 40248079

Courier: CS Logistics Fed Ex Speedee UPS Walco
 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: 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

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: 7/14/22 / Initials: SKW
 Labeled By Initials: NK

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

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

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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0156045.02

Pace Project No.: 40249849

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
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

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ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-1 Lab ID: 40249849001 Collected: 08/12/22 09:10 Received: 08/13/22 08:45 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 40249849002 Collected: 08/12/22 10:16 Received: 08/13/22 08:45 Matrix: Water									
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	

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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

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ANALYTICAL RESULTS

Project: 20.0156045.02
Pace Project No.: 40249849

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7 Lab ID: 40249849003 Collected: 08/12/22 10:55 Received: 08/13/22 08:45 Matrix: Water									
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	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-13 Lab ID: 40249849004 Collected: 08/12/22 11:45 Received: 08/13/22 08:45 Matrix: Water									
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	

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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

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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

Parameter	Units	2440572							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
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	2440652										Max RPD	Qual
		40249655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD		
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		2438818		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
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 Analysis Method: EPA 8260
QC Batch 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40249727001 Result	Spike Conc.	Spike Conc.	Conc.								
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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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		40249655002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
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		40249655001		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Total Organic Carbon	mg/L	0.94	6	6	6.6	6.7	95	97	80-120	2	10		

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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.

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant 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 Geo Environmental Inc**
Address: **17975 W Savah Lane**

Billing Information:
AP @ GZA.COM

Report To: **Sheryl Stephenson @ gza.com**
Copy To:

Email To: **SAME**
Site Collection Info/Address:

Customer Project Name/Number: **20.0156045.02**

State: **WI** County/City: **WAUKESHA** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: **262 202 1716**
Email:

Site/Facility ID #:
Compliance Monitoring?
 Yes No

DW PWS ID #:
DW Location Code:

Collected By (print): **Sheryl Stephenson**

Purchase Order #:
Quote #:

Immediately Packed on Ice:
 Yes No

Collected By (signature): *[Signature]*

Turnaround Date Required: **Normal**

Field Filtered (if applicable):
 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)

Analysis: **Diss Fe**

* 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)		Composite End		Res Cl	# of Ctns	Analyses									
			Date	Time	Date	Time			CVOC	M/E/LE	Sulfate	TOC	Metals (Diss Fe)					
MW-1	GW	G	8/12/22	0910				9	X	X	X	X	X					
MW-6	GW	G	8/12/22	1016				9	X	X	X	X	X					
MW-7	GW	G	8/12/22	1055				9	X	X	X	X	X					
MW-13	GW	G	8/12/22	1145				9	X	X	X	X	X					
MW-17	GW	G	8/12/22	1224				9	X	X	X	X	X					
TRIP	GW	-						1	X	X	X	X	X					

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

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 #: **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)
GZA / [Signature]
Date/Time: **8/12/22 1500**

Received by/Company: (Signature)
CS Logistics
Date/Time: **8/13/22 0845**
Anthony Werdel

Relinquished by/Company: (Signature)
CS Logistics
Date/Time: **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
Page: **17** of 19
Page of:

Sample Preservation Receipt Form

Client Name: GZA GeoEnv
 Project # 4024949
 Lab Lot# of pH paper: 1053111 Lab Std #ID of preservation (if pH adjusted): N/A
 Initial when completed: ML Date/Time: _____

All containers needing preservation have been checked and noted below:
 Yes No

Lab #	Material	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)
001	AG1U											2.5/5/10
002	BG1U											2.5/5/10
003	AG1H											2.5/5/10
004	AG4S											2.5/5/10
005	AG4U											2.5/5/10
006	AG5U											2.5/5/10
007	AG2S											2.5/5/10
008	BG3U											2.5/5/10
009	BP1U											2.5/5/10
010	BP3U											2.5/5/10
011	BP3B											2.5/5/10
012	BP3N											2.5/5/10
013	BP3S											2.5/5/10
014	VG9A											2.5/5/10
015	VG9T											2.5/5/10
016	VG9U											2.5/5/10
017	VG9H											2.5/5/10
018	VG9M											2.5/5/10
019	VG9D											2.5/5/10
020	JG9U											2.5/5/10

Exceptions to preservation check: VOA, Coliform, 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 clear 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

JG9U	4 oz amber jar unpres
WG9U	9 oz clear jar unpres
WPFU	4 oz clear jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	100 mL amber glass H2SO4

8/13/22
 ML

8/13/22
 ML

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

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: 8/13/22 /Initials: ADL
 Labeled By Initials: BS

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

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 logir