

Prepared for:

Marquette University
517 North 14th Street
Milwaukee, Wisconsin

Date:

February 2021

Project Number:

1690005819

FORMER ONE-HOUR VALET DRYCLEANER (TAXMAN) SITE

**1214-1222 WEST WELLS STREET
MILWAUKEE, WISCONSIN**


BRRTS NO. 02-41-152248

FID NO. 241086120

SUPPLEMENTAL REMEDIATION DOCUMENTATION AND PROGRESS REPORT

CERTIFICATIONS

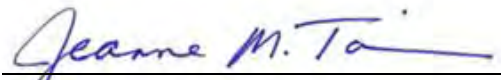
I, James Hutchens, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to NR 726, Wis. Adm. Code.



James L. Hutchens
License No. 26366



I, Jeanne Tarvin, hereby certify that I am a hydrogeologist as that term is defined in 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 NR 726, Wis. Adm. Code.



Jeanne M. Tarvin, PG, CPG
License No. G-307-13

February 26, 2021
Date

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1. INTRODUCTION

Ramboll US Consulting, Inc. (Ramboll), on behalf of Marquette University (Marquette), has prepared this Supplemental Remediation Documentation and Progress Report (the "report") for the former Taxman/One-Hour Valet Drycleaner Site (the "site") located in Milwaukee, Wisconsin. The Wisconsin Department of Natural Resources (WDNR) Bureau of Remediation and Redevelopment Tracking System (BRRTS) has assigned the case number 02-41-152248 to the site. This report has been prepared in accordance with Wisconsin Administrative Code (WAC) Chapter NR 724 and documents post-remedial action monitoring activities and supplemental remedial amendment injection activities at the site. Parties currently involved with the project include the following:

Responsible Party/Site Owner:	Marquette University Mr. Joel Smullen, AIA 517 North 14th Street Milwaukee, WI 53233 (414) 288-4620
Regulatory Agency/Project Manager:	WDNR Mr. Isaac Ross 2300 North Dr. Martin Luther King, Jr. Drive Milwaukee, WI 53212-3128 (414) 263-8519
Environmental Consultant:	Ramboll US Consulting, Inc. Ms. Jeanne Tarvin, PG, CPG 234 West Florida Street, Fifth Floor Milwaukee, WI 53204 (262) 901-0085

1.1 Site Location and Description

The site is located at 1214-1222 West Wells Street in the southwest $\frac{1}{4}$ of the northwest $\frac{1}{4}$ of Section 29, Township 7 North, Range 22 East, City of Milwaukee, Milwaukee County, Wisconsin (Figure 1). The geographic position of the Site in WTM 91 (x,y) coordinates obtained from the WDNR Remediation and Redevelopment (RR) interaction site map (<http://dnrmmaps.wi.gov>) is 688795, 287401. The site includes two tax parcels in the City of Milwaukee, 3910218000 and 3910219100.

The site is bounded on the west by a public and Marquette parking structure, on the north by a hospital parking garage, on the east by North 12th Street, and on the south by West Wells Street, as shown on Figure 2. The site is currently owned by Marquette and is enrolled in the WDNR-administered Drycleaner Environmental Response Fund (DERF) Program. The former site buildings were demolished in 2018 in advance of the remedial action implementation activities and all associated utilities were disconnected. The balance of the paved surfaces was also removed in 2018 following implementation of the remedial actions.

The site slopes from the northwest to the east and south, resulting in storm water drainage toward North 12th Street and West Wells Street. The nearest surface water body is the Menomonee River, which is located approximately one-half mile to the south of the site. Potable water for the area is provided by the City of Milwaukee municipal water supply, the source of which is Lake Michigan.

1.2 Previous Remediation Activities

The site has been subject to several subsurface investigations since 1999. Following source area soil and groundwater investigation activities, a *Remedial Design Report* including evaluation of remedial action options (Ramboll, 2018) was prepared to document the technical basis, design, and implementation approach for the selected remedial option (*in-situ* enhanced reductive dechlorination [ERD]). The *Remedial Design Report* was approved by the WDNR, and soil and groundwater remediation activities were conducted in July 2018. Approximately 1,940 cubic yards of chlorinated volatile organic compound (CVOC) impacted soil and groundwater were treated using *in-situ* ERD soil blending by incorporating zerovalent iron (ZVI) and a carbon amendment (commercially known as Anaerobic BioChem [ABC®]). The soil blending was primarily focused on treating saturated soil and groundwater at depths below the former dry cleaner's basement floor. Following completion of the soil blending activities, the former basement void was backfilled with crushed concrete from the former site buildings. A *Remedial Action Documentation Report* (Ramboll, 2019) was submitted to the WDNR which documented the remediation activities and described the planned post-remediation monitoring including routine groundwater sampling and soil confirmation sampling. A *Post-Remedial Action Documentation Report* (Ramboll, 2020) was submitted to the WDNR which documented the post-remedial action activities, including site redevelopment and post remedial action activities (e.g., soil confirmation sampling, soil vapor sampling, and groundwater monitoring). Based on the residual COVC concentrations reported in a subset of the post-remedial action and groundwater samples collected, supplemental remedial actions were proposed to further enhance reductive dichlorination at the site. A work plan for performance of the supplemental *in-situ* ERD activities was included in the *Post-Remedial Action Documentation Report*.

1.3 Purpose of Report

The purpose of this report is to summarize and document the supplemental *in-situ* ERD activities and present the results of the October 2020 semi-annual groundwater monitoring event.

2. SUPPLEMENTAL *IN-SITU* ERD ACTIVITIES

The following section documents the field activities that were completed as part of the supplemental *in-situ* ERD activities completed in August/September 2020.

2.1 Subcontractor Identification

The following remedial service providers were utilized during the supplemental remedial activities:

***In-Situ* ERD Injection and Injection Well Installation**

Redox Tech, LLC (Redox Tech)
2609 Crooks Road, #204
Troy, MI 48084

Private Utility Locator

Subsurface Radar Solutions (SRS)
17750 Beaverton Road
Capron, IL 61012

2.2 Pre-Supplemental Injection Activities

2.2.1 Underground Injection Control (UIC) Permit

In accordance with the Wisconsin Pollutant Discharge Elimination System (WPDES) general permit requirements, a temporary exemption for injection in accordance with WAC NR 140.28(5) and approval to inject remedial materials under WAC NR 812.05 was requested and secured prior to completing injection activities. The permit application was submitted under separate cover to the WDNR on May 27, 2020 and approved on July 24, 2020.

2.2.2 Utility Locating

Prior to commencing the supplemental *in-situ* ERD activities, a request for public utility location services was filed with Wisconsin One-Call (Diggers Hotline) and SRS, a private utility locator, completed on-site utility locating services within the injection area.

2.3 Implementation of Supplemental Injection Activities

2.3.1 Chemical Amendment Application Activities and Injection Well Installation

To adequately provide supplemental chemical amendment to the previously treated July 2018 source area soils, injections were completed at nine boring locations on August 31 and September 1, 2020, utilizing a direct-push tooling (DPT) rig equipped with large diameter tooling. The injection locations were selected near soil confirmation borings C1, C2, C4, and C5 which exhibited elevated CVOC concentrations. Following completion of the injection activities, eight of the nine boring locations were completed with pre-packed 1-inch diameter wells of varying screen lengths in accordance with WAC NR 141 to allow for follow-up injections if needed at some point in the future. The injection locations (IP-1, IW-1 through IW-8) are shown on Figure 3. The injection well construction logs and *in-situ* ERD injection material quantities are presented in Appendix A. A discussion of the injection methodology is provided below.

Prior to well installation, abrupt elevated pressure techniques (fracturing) were applied to create fractures within the soil matrix across the treatment and proposed screened interval. Applied pressures ranged between 110 and 210 pounds per square inch (psi). Voids created during the fracturing were immediately occupied with an emulsion of fine-grain quartz sand, ZVI, carbon amendment, bioaugmentation microbial culture of KB-1 containing *Dehalococcoides (Dhc)* and deoxygenated potable water. Three of the injection borings (IW-6, IW-7, and IW-8) near soil confirmation boring C1 were fractured at six horizons at approximate discrete depths of 20, 22.5, 25, 27.5, 30, and 32.5 feet below ground surface (bgs). Fracture thicknesses were estimated to be approximately one-quarter inch and radiated approximately 7 to 8 feet from each boring location. Three injection borings (IW-3, IW-4, and IW-5) near soil confirmation boring C2 were fractured at three horizons at approximate depths of 25, 27.5, and 30 feet bgs. The remaining three injection borings (IW-1, IW-2 and IP-1) near soil confirmation borings C4 and C5 were fractured at two horizons at 13 and 15 feet bgs.

Each fracture interval received 20 gallons of an injectant mixture with a concentration of 1-gallon ABC[®] per 19 gallons water, 100 pounds ZVI, 100 pounds silica sand, and 0.1 kilogram of KB-1 bioaugmentation bacteria culture. The KB-1 bioaugmentation bacteria culture is a naturally occurring, non-pathogenic microbial culture that contains *Dhc*. *Dhc* is a group of microorganisms documented to promote the complete dechlorination of chlorinated ethenes to non-toxic ethene (Lu, 2006). The injection of *Dhc* is designed to replenish and increase the existing microbial colony. Estimated total amendment quantities applied during the injection well installation

activities were approximately 3,900 pounds of sand, 3,900 pounds of ZVI, 780 gallons of carbon amendment-water mixture, and 1 gallon of KB-1 bioaugmentation bacteria culture.

Following the application of the amendment in the induced fractures at each soil boring, DPT tooling was removed from the soil boring and decontaminated using potable water. Eight pre-packed wells were installed within the annulus of borings IW-1 through IW-8 and completed at the surface within a 6-inch diameter bolt-down type flush-mount well compartment secured in a concrete pad. One injection well was unable to be completed at boring IP-1 due to subsurface obstructions (e.g., crushed concrete material) at approximately 3 to 4 feet bgs. A borehole abandonment form is included in Appendix A. Soil cuttings were not generated during the well installation activities within the treated soil area due to the installation of pre-packed monitoring wells. Waste material was limited to surficial asphalt debris associated with the well compartment installation.

2.3.2 Potable Water Source and Use

During chemical amendment preparation potable water was used to create the aqueous ABC[®] solution. Water was obtained from a faucet located in the adjacent Marquette parking garage immediately west of the injection area. Potable water was deoxygenated prior to injection activities. Deoxygenation was completed by adding a combination of sugar and yeast or sodium sulfite. The volumes of deoxygenation chemicals used were based on the quantity of required deoxygenated water.

2.3.3 Injection Monitoring Activities

Surface materials (e.g., asphalt and vegetation) were visually monitored during injection activities. No remediation materials were observed at the surface during injection activities. Groundwater elevations were collected during injection activities and are tabled and presented in Appendix A.

2.4 Post-Injection Groundwater Monitoring Activities

An initial evaluation of post-supplemental amendment injection activities was conducted as part of the October 2020 semi-annual groundwater monitoring event. The October 2020 groundwater data is considered the baseline for evaluation of future amendment injection events, if warranted.

3. OCTOBER 2020 GROUNDWATER MONITORING ACTIVITIES

The groundwater sampling activities were conducted utilizing the procedures and methodology specified in the *Remedial Design Report* (Ramboll, 2018) and *Remedial Action Documentation Report* (Ramboll, 2019). Additionally, the *Post-Remedial Action Documentation Report* (Ramboll, 2020) recommended a modification to the monitored natural attenuation (MNA) parameter list (eliminating nitrate, dissolved iron, and ferric iron), collecting MNA parameters from only PZ-1R, and modifying the groundwater monitoring program to a semi-annual basis. The resulting analytical data were reviewed, tabulated, and compared to WAC NR 140 Preventative Action Limits (PALs) and Enforcement Standards (ESs). The following sections document the initial post-supplemental amendment injection groundwater sampling event completed in October 2020.

3.1 Post-Supplemental Amendment Injection Groundwater Monitoring

Six monitoring wells (MW-4, MW-5, MW-6, PZ-1R, PZ-2R, and PZ-4) were sampled October 28, 2020, as part of the ongoing post-remediation low-flow groundwater monitoring program.

Monitoring well PZ-1R is a source area well and is located within the boundaries of the *in-situ* ERD

soil blending and supplement *in-situ* ERD injection activities. Monitoring well MW-4 is an upgradient monitoring well. The remaining monitoring wells are located downgradient of the source area. Groundwater monitoring well locations are included on Figure 2.

Groundwater samples collected from the six monitoring wells were submitted to a Wisconsin-certified laboratory for analysis of VOCs using United States Environmental Protection Agency (USEPA) Method 8260B. Monitoring well PZ-1R was also sampled for the following MNA parameters: ethane/ethene/methane (USEPA Method 8015), ferrous iron species (USEPA Method 3500), total organic carbon (USEPA Method 5310C), and sulfate (USEPA Method 300).

One quality assurance/quality control (QA/QC) duplicate groundwater sample and QA/QC laboratory trip blank sample were submitted for laboratory analysis as part of the groundwater sampling event. Field parameter measurements including dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, specific conductivity, and temperature were also measured and recorded at each well during the sampling event.

3.2 Groundwater Elevation Measurements

To evaluate groundwater flow directions and hydraulic gradients, groundwater elevations were measured during the supplemental *in-situ* ERD injection activities (pre- and post-injection) and the October 2020 groundwater sampling event. A summary of historical groundwater elevations is presented in Table 1.

October 2020 groundwater elevations were generally lower when compared to previous site-wide groundwater sampling event completed in March 2020. The continued low levels observed in October 2020 could be associated with completion of the parking lot construction in July 2019.

A groundwater potentiometric surface map is provided as Figure 4. The inferred direction of groundwater flow across the site is generally toward the east-southeast, with the highest groundwater elevation observed in well MW-2 (near the northwest corner of the property) and the lowest groundwater elevation observed in MW-5 (eastern portion of the property). This interpretation of local groundwater flow direction is consistent with previous observations.

Horizontal and vertical gradients were evaluated between November 2017 and the post-remedial action groundwater sampling events beginning in August 2019. The measured horizontal hydraulic gradient between wells MW-2 and MW-5 was 0.043 foot per foot (ft/ft) in November 2017, 0.059 ft/ft in August 2019, 0.052 ft/ft in October 2019, 0.053 ft/ft in March 2020, and 0.048 ft/ft in October 2020. The horizontal gradients increased somewhat after the impervious surfaces were removed and after the July 2018 remedial action and appear to have decreased after the parking lot was constructed. The August/September 2020 supplemental injection activities did not adversely impact the horizontal gradient observed at the site.

Vertical hydraulic gradients were evaluated between wells MW-5 and PZ-4. Historical vertical gradients have all been downward and ranged from 0.56 ft/ft in November 2017 to 0.54 ft/ft in August 2019 and October 2020. The vertical hydraulic gradients have not been affected by the removal of the impervious surfaces or performance of the July 2018 remedial action and August/September 2020 supplemental injection activities. Horizontal and vertical hydraulic gradient trends will continue to be monitored over the duration of the groundwater monitoring program. The calculated horizontal and vertical gradients are shown in Table 2.

3.3 Field Parameter Results

Field parameters consisting of specific conductivity, DO, ORP, pH, and temperature were collected from the monitoring wells sampled during the groundwater sampling event following supplemental amendment injection activities. Specific conductivity values observed during the October 2020 sampling event varied from 366 micro Siemens per centimeter ($\mu\text{S}/\text{cm}$) in PZ-4 to 11,460 $\mu\text{S}/\text{cm}$ in MW-4. Overall, specific conductivity values decreased from March 2020 in MW-5, MW-6, and PZ-4; and increased in MW-4, PZ-1R, and PZ-2R.

DO levels slightly increased in all monitoring wells sampled during the October 2020 groundwater monitoring event following the supplemental amendment injection activities, except at hydraulically cross-gradient well MW-4 (1.45 milligrams per liter [mg/L], October 2020) where DO concentrations have fluctuated between 0.88 mg/L (November 2017) and 8.53 mg/L (March 2020). Overall DO concentrations indicate seasonal variations at the site.

Generally, ORP observations increased in all sampled monitoring wells during the October 2020 sampling event. The only exception was PZ-2R where ORP observations slightly decreased from -68.3 millivolts (mV) in March 2020 to -80.6 mV in October 2020. Negative ORP values were measured in monitoring wells within and hydraulically downgradient of the *in-situ* soil blending area (PZ-1R, PZ-2R, and MW-6). The field parameter measurement results are shown in Table 3.

3.4 Groundwater Laboratory Analytical Results

Groundwater samples were collected from six monitoring wells and submitted for laboratory analysis in accordance with the approved sampling plan. A copy of the October 2020 laboratory analytical report is provided in Appendix B. Estimated concentrations above the detection limit but below the quantification limit were qualified with a "J" in the laboratory report.

3.4.1 Geochemical Analytical Results

Monitoring well PZ-1R was sampled for MNA parameters in October 2020. Table 4 provides a summary of the geochemical analytical results.

Total organic carbon (TOC) concentrations are an indicator of the carbon amendment introduced to the subsurface via the supplemental amendment injection completed in August/September 2020. Concentrations of TOC in source area well PZ-1R increased from 115 mg/L in March 2020 to 2,440 mg/L in October 2020. This increase is indicative of effective carbon substrate distribution following the supplement *in-situ* ERD injections.

Ferrous iron is produced by the reduction of ferric iron and is also produced via corrosion of ZVI which was introduced during the supplemental *in-situ* ERD injections. The concentration of ferrous iron in PZ-1R increased from 5.1 mg/L (March 2020) to 168 mg/L (October 2020). The substantially higher October 2020 ferrous iron concentration value compared with the initial post-soil blending remedial action treatment value of 5.8 mg/L (May 2019) is indicative of strong iron-reducing conditions.

Sulfate is an alternative electron acceptor for microbial respiration in the absence of oxygen (anaerobic conditions). Sulfate concentrations less than 20 mg/L are desirable (but not required) for anaerobic dechlorination to occur. At monitoring well PZ-1R, within the treatment zone, sulfate concentrations drastically decreased from 85.9 mg/L in March 2020 to an estimated concentration of 4.9 mg/L in October 2020 and is indicative of sulfate-reducing conditions.

Elevated methane concentrations indicate that fermentation is occurring in a highly anaerobic environment and reducing conditions are appropriate for anaerobic dechlorination of CVOCs to occur. At treatment zone monitoring well PZ-1R, methane concentrations have increased from 162 micrograms per liter ($\mu\text{g/L}$) in March 2020 to 1,510 $\mu\text{g/L}$ in October 2020 and is indicative of methanogenic conditions in a highly anaerobic environment.

Elevated concentrations of ethene and ethane can be used to infer that anaerobic dechlorination of CVOCs is occurring. With respect to groundwater samples obtained from treatment zone well PZ-1R, ethene concentrations increased by an order-of-magnitude from 974 $\mu\text{g/L}$ in March 2020 to 1,320 $\mu\text{g/L}$ in October 2020. Ethane concentrations decreased from 2,130 $\mu\text{g/L}$ in March 2020 to 1,560 $\mu\text{g/L}$ in October 2020. The detected presence of ethene and ethane in the treatment zone is indicative of *Dhc* microbial development needed for complete reductive dechlorination of CVOCs to non-toxic end products.

3.4.2 VOC Analytical Results

Concentrations of VOCs were detected above laboratory detection limits in all six monitoring wells (MW-4, MW-5, MW-6, PZ-1R, PZ-2R, and PZ-4) sampled in October 2020. Four of the six monitoring wells (MW-4, MW-5, PZ-1R, and PZ-4) had detections of tetrachloroethene (PCE) above the WAC NR 140 ES of 5 $\mu\text{g/L}$ at concentrations ranging from 21.7 $\mu\text{g/L}$ (MW-5) to 28,800 $\mu\text{g/L}$ (PZ-1R). Three monitoring wells (MW-5, MW-6, and PZ-1R) had detections of trichloroethene (TCE) above the WAC NR 140 ES of 5.0 $\mu\text{g/L}$ at concentrations of 5.2 $\mu\text{g/L}$, 15.6 $\mu\text{g/L}$, and 2,280 $\mu\text{g/L}$, respectively. Groundwater samples from MW-6, PZ-1R, and PZ-2R had detections of cis-1,2,-dichloroethene above the WAC NR 140 ES of 70 $\mu\text{g/L}$, at concentrations of 172 $\mu\text{g/L}$ and 6,500 $\mu\text{g/L}$, 90.2 $\mu\text{g/L}$, respectively. Cis-1,2,-dichloroethene was detected above the PAL of 7.0 $\mu\text{g/L}$ but below the ES in MW-5 at a concentration of 11.3 $\mu\text{g/L}$. Four of the six monitoring wells sampled in October 2020 had detections of vinyl chloride above the WAC NR 140 ES of 0.2 $\mu\text{g/L}$ at concentrations ranging from 1.5 $\mu\text{g/L}$ (MW-5) to 822 $\mu\text{g/L}$ (PZ-1R). No other VOCs were detected above WAC NR 140 criteria.

Concentrations of PCE in PZ-1R is consistent with continued back-diffusion of PCE from the fine-grained silty clay soils within the treatment zone in response to the groundwater remedial action. However, the October 2020 concentrations of degradation compounds trichloroethene, cis-1,2-dichloroethene and vinyl chloride were all lower than their respective previous post-treatment values. A summary of VOC analytical results is provided in Table 5. The detected CVOC analytical results from the groundwater sampling event are shown in Figure 5.

3.4.3 Waste Disposal

Purge water and decontamination fluids from the October 2020 groundwater sampling activities were containerized in 55-gallon drums and transported off site for disposal by Veolia North America on October 30, 2020. Waste disposal documentation is included as Appendix C.

4. CONCLUSIONS AND RECOMMENDATIONS

Supplemental *in-situ* ERD injection activities were completed August/September 2020. Following the supplemental injection activities, the groundwater monitoring program was continued in October 2020. The supplemental injection activities included nine injections of fine grain quartz sand, ZVI, carbon amendment, bioaugmentation microbial culture, and deoxygenated potable

water and the installation of eight injection wells for potential additional injection events to replenish the carbon amendment and, if needed, the microbial culture.

The October 2020 groundwater sample from treatment zone well PZ-1R contained a TOC concentration more than an order-of-magnitude greater than previous post-treatment TOC concentrations. This finding is indicative of effective carbon substrate distribution in response to the supplemental *in-situ* ERD injection event. Fermentation (production of methane) of the carbon substrate has stimulated strongly reducing conditions, as evidenced by the following:

1. Substantially higher ferrous iron concentration (168 mg/L, October 2020) when compared with previous post-treatment values (5.1 mg/L [March 2020] to 6.5 mg/L [August 2019]), which is indicative of strongly iron-reducing conditions.
2. Lowest to date sulfate concentration (4.9 mg/L [October 2020] versus 85.9 mg/L [March 2020]), which is indicative of sulfate-reducing conditions.
3. Highest to date methane concentration (1,510 µg/L [October 2020] versus 162 µg/L [March 2020]), which is indicative of methanogenic conditions in a highly anaerobic environment.
4. Highest to date concentration of reductive dechlorination end product ethene (1,320 µg/L [October 2020] versus 974 µg/L [March 2020]), the production of which may have been enhanced by the application of *Dhc*-containing microbial culture.

The detected concentration of PCE in the October 2020 groundwater sample collected from well PZ-1R is consistent with continued back-diffusion of PCE from the fine-grained silty clay soils within the treatment zone in response to the groundwater remedial action. However, an encouraging finding is that the October 2020 concentrations of degradation compounds TCE, cis-1,2-dichloroethene and vinyl chloride were all lower than their respective previous post-treatment values.

While the full benefit of the additional treatment has not yet been realized, the continued generation of PCE breakdown products (including non-toxic end product ethene) confirm that reductive dechlorination is taking place and is expected to continue based on the results of the geochemical data. While the need for additional amendment injection events is not recommended at this time, the need for additional injections will continue to be reevaluated based on data obtained as part of the ongoing post remediation groundwater monitoring program.

Groundwater samples are proposed to be collected on a semi-annual basis, consistent with the *Post-Remedial Action Documentation Report* (Ramboll, 2020) previously submitted to the WDNR. The next semi-annual groundwater sampling event is tentatively scheduled for April 2021.

5. REFERENCES

- Lu, X., D. H. Kampbell, and J. T. Wilson. 2006. Evaluation of the Role of Dehalococcoides Organisms in the Natural Attenuation of Chlorinated Ethylenes in Groundwater. USEPA, Washington, DC. EPA/600/R-06/029.
- Ramboll. 2018. *Remedial Design Report*. Former One-Hour Valet Dry Cleaners, Milwaukee, Wisconsin. February.

Ramboll. 2019. *Remedial Action Documentation Report*. Former One-Hour Valet Dry Cleaners, Milwaukee, Wisconsin. March.

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TABLES

Table 1. Groundwater Elevations Summary
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	MW-1		MW-2		MW-3		MW-4		MW-5	
Top of Casing Elevation (TOC ft msl) ^(A)	647.95		655.74		649.54		652.32		653.26	
Ground Surface Elevation (ft) ^(A,B)	648.30		656.00		649.70		652.70		650.40	
Top of Well Screen Elevation (ft msl) ^(A)	640.10		645.50		639.50		644.40		641.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	630.10		635.50		629.50		634.40		631.80	
October 2019 Top of Casing Elevation (ft amsl)	647.75		654.70		649.28		651.98		649.23	
October 2019 Ground Surface (ft amsl)	648.16		655.47		649.65		652.33		649.75	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
5/8/2002	10.50	637.45	7.20	648.54	11.38	638.16	NI	NI	NI	NI
7/11/2003	11.14	636.81	9.87	645.87	11.20	638.34	NI	NI	NI	NI
8/7/2003	11.92	636.03	10.43	645.31	12.31	637.23	13.81	638.51	16.88	636.38
10/7/2004	12.35	635.60	11.15	644.59	12.39	637.15	13.56	638.76	17.13	636.13
8/25/2009	10.80	637.15	10.85	644.89	9.62	639.92	12.02	640.30	15.72	637.54
11/2/2011	10.68	637.27	13.13	642.61	11.17	638.37	12.68	639.64	16.04	637.22
11/1/2017 & 11/9/2017*	10.52	637.43	10.74	645.00	10.22	639.32	12.81	639.51	16.11	637.15
5/2/2019	NM	NM	NM	NM	NM	NM	9.32	643.00	11.75	641.51
8/14/2019 ⁽³⁾	9.85	637.90	6.90	647.80	8.87	640.41	10.63	641.35	12.34	636.89
10/23/2019 ⁽³⁾	8.83	638.92	7.35	647.35	8.75	640.53	9.70	642.28	11.41	637.82
3/10/2020 ⁽³⁾	9.10	638.65	7.34	647.36	9.04	640.24	9.82	642.16	11.57	637.66
8/31/2020 ⁽³⁾	8.70	639.05	8.56	646.14	8.30	640.98	9.11	642.87	11.45	637.78
9/3/2020 ⁽³⁾	8.70	639.05	7.12	647.58	8.26	641.02	9.04	642.94	11.46	637.77
10/28/2020 ⁽³⁾	9.21	638.54	8.41	646.29	9.25	640.03	11.27	640.71	11.82	637.41

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

ASML = Above Mean Sea Level

MSL = Mean Sea Level

NI = Not installed at the time of the water level measurement

NM = Not Measured

TOC = Top of Casing

-- = Data Not Available

Table 1. Groundwater Elevations Summary
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	MW-6		MW-7		MW-8		MW-9		PZ-1 ⁽¹⁾	
Top of Casing Elevation (TOC ft msl) ^(A)	648.11		649.74		649.80		650.27		653.10	
Ground Surface Elevation (ft) ^(A,B)	648.50		649.90		650.00		650.40		653.70	
Top of Well Screen Elevation (ft msl) ^(A)	640.30		648.20		648.40		643.50		623.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	630.30		638.20		638.40		633.50		618.80	
October 2019 Top of Casing Elevation (ft amsl)	648.26		649.56		649.63		650.73		NM	
October 2019 Ground Surface (ft amsl)	648.51		649.75		649.77		651.39		NM	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
5/8/2002	NI	NI	NI	NI	NI	NI	NI	NI	18.20	634.90
7/11/2003	NI	NI	NI	NI	NI	NI	NI	NI	19.59	633.51
8/7/2003	NI	NI	NI	NI	NI	NI	NI	NI	20.10	633.00
10/7/2004	NI	NI	NI	NI	NI	NI	NI	NI	20.82	632.28
8/25/2009	10.85	637.26	7.16	642.58	7.18	642.62	13.05	637.22	21.52	631.58
11/2/2011	10.79	637.32	9.01	640.73	9.09	640.71	13.19	637.08	NM	NM
11/1/2017 & 11/9/2017*	10.30	637.81	8.98	640.76	9.39	640.41	13.30	636.97	22.97	630.13
5/2/2019	8.76	639.35	NM	NM	NM	NM	NM	NM	--	--
8/14/2019 ⁽³⁾	9.34	638.92	7.60	641.96	7.89	641.74	13.90	636.83	--	--
10/23/2019 ⁽³⁾	8.19	640.07	7.85	641.71	7.72	641.91	12.95	637.78	--	--
3/10/2020 ⁽³⁾	8.30	639.96	8.00	641.56	6.78	642.85	13.95	636.78	--	--
8/31/2020 ⁽³⁾	7.04	641.22	7.43	642.13	7.37	642.26	13.25	637.48	--	--
9/3/2020 ⁽³⁾	7.10	641.16	7.43	642.13	7.21	642.42	13.17	637.56	--	--
10/28/2020 ⁽³⁾	8.67	639.59	8.23	641.33	8.35	641.28	14.10	636.63	--	--

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

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NI = Not installed at the time of the water level measurement

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Table 1. Groundwater Elevations Summary
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	PZ-1R		PZ-2 ⁽²⁾		PZ-2R		PZ-3 ⁽¹⁾		PZ-4	
Top of Casing Elevation (TOC ft msl) ^(A)	--		648.74		--		653.41		649.78	
Ground Surface Elevation (ft) ^(A,B)	--		649.10		--		653.70		650.30	
Top of Well Screen Elevation (ft msl) ^(A)	622.18		624.00		623.04		608.00		609.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	617.18		619.00		618.04		603.00		604.80	
October 2019 Top of Casing Elevation (ft amsl)	652.18		NM		649.539		NM		649.56	
October 2019 Ground Surface (ft amsl)	652.69		NM		650.002		NM		650.20	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
5/8/2002	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
7/11/2003	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
8/7/2003	NI	NI	25.54	623.20	NI	NI	NI	NI	NI	NI
10/7/2004	NI	NI	24.93	623.81	NI	NI	33.14	620.27	NI	NI
8/25/2009	NI	NI	23.42	625.32	NI	NI	31.15	622.26	NM	NM
11/2/2011	NI	NI	23.74	625.00	NI	NI	31.45	621.96	28.40	621.38
11/1/2017 & 11/9/2017*	NI	NI	23.22	625.52	NI	NI	31.10	622.31	27.83	621.95
5/2/2019	27.41	--	--	--	NI	NI	--	--	27.48	622.30
8/14/2019 ⁽³⁾	29.80	622.38	--	--	25.29	624.25	--	--	27.15	622.41
10/23/2019 ⁽³⁾	29.01	623.17	--	--	25.00	624.54	--	--	26.90	622.66
3/10/2020 ⁽³⁾	29.40	622.78	--	--	25.40	624.14	--	--	27.10	622.46
8/31/2020 ⁽³⁾	28.96	623.22	--	--	24.90	624.64	--	--	26.74	622.82
9/3/2020 ⁽³⁾	28.80	623.38	--	--	24.72	624.82	--	--	26.73	622.83
10/28/2020 ⁽³⁾	27.55	624.63	--	--	24.94	624.60	--	--	26.85	622.71

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

ASML = Above Mean Sea Level

MSL = Mean Sea Level

NI = Not installed at the time of the water level measurement

NM = Not Measured

TOC = Top of Casing

-- = Data Not Available

Table 2: Vertical and Horizontal Gradients

Former One-Hour Valet Dry Cleaners
 1214 West Wells Street, Milwaukee, Wisconsin
 Ramboll Project No. 1690005819

Well ID	Measurement Date	Top of Casing Elevation (ft-amsl)	Water Level Measurement (ft btoc)	Ground-water Elevation (ft-amsl)	Screen Length (ft)	Top of Well Screen Elevation (ft-amsl)	Bottom of Well Screen Elevation (ft-amsl)	Mid-Point of Well Screen Elevation (ft-amsl)	Vertical Gradient Calculation Value (ft-amsl)	Head Difference (ft)	Vertical Gradient (ft/ft)/Direction	
MW-5	11/1/2017	653.26	16.11	637.15	10.00	641.80	631.80	636.80	634.5	-15.20	-0.56	Downward
PZ-4	11/1/2017	649.78	27.83	621.95	5.00	609.80	604.80	607.30	607.3			
MW-5	8/14/2019	649.23	12.34	636.89	10.00	641.80	631.80	636.80	634.3	-14.48	-0.54	Downward
PZ-4	8/14/2019	649.56	27.15	622.41	5.00	609.80	604.80	607.30	607.3			
MW-5	10/23/2019	649.23	11.41	637.82	10.00	641.80	631.80	636.80	634.8	-15.16	-0.55	Downward
PZ-4	10/23/2019	649.56	26.90	622.66	5.00	609.80	604.80	607.30	607.3			
MW-5	3/10/2020	649.23	11.57	637.66	10.00	641.80	631.80	636.80	634.7	-15.20	-0.55	Downward
PZ-4	3/10/2020	649.56	27.10	622.46	5.00	609.80	604.80	607.30	607.3			
MW-5	10/28/2020	649.23	11.82	637.41	10.00	641.80	631.80	636.80	634.6	-14.70	-0.54	Downward
PZ-4	10/28/2020	649.56	26.85	622.71	5.00	609.80	604.80	607.30	607.3			

Well ID	Measurement Date	Top of Casing Elevation (ft-amsl)	Water Level Measurement (ft btoc)	Ground-water Elevation (ft-amsl)	Distance Between Monitoring Wells (ft)	Groundwater Elevation Difference (ft)	Horizontal Gradient (ft/ft)
MW-2	11/1/2017	655.74	10.74	645.00	184	7.9	0.043
MW-5	11/1/2017	653.26	16.11	637.15			
MW-2	8/14/2019	654.70	6.90	647.80	184	10.9	0.059
MW-5	8/14/2019	649.23	12.34	636.89			
MW-2	10/23/2019	654.70	7.35	647.35	184	9.5	0.052
MW-5	10/23/2019	649.23	11.41	637.82			
MW-2	3/10/2020	654.70	7.34	647.36	184	9.7	0.053
MW-5	3/10/2020	649.23	11.57	637.66			
MW-2	3/10/2020	654.70	8.41	646.29	184	8.9	0.048
MW-5	3/10/2020	649.23	11.82	637.41			

Notes:

ft - feet

amsl - above mean sea level

btoc - below top of casing

Table 3: Groundwater Field Parameter Results
Former One-Hour Valet Dry Cleaners
1214 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Parameter		pH	Dissolved oxygen	Oxidation Reduction Potential	Turbidity	Specific Conductivity	Temperature
Units		S.U.	mg/L	mV	NTU	uS/cm	°C
Monitoring Well ID	Sample Date						
MW-1	1/14/2002	NR	10.39	-37	NR	NR	NR
	5/8/2002	NR	3.57	287.1	NR	NR	NR
	8/7/2003	NR	0.22	161.3	NR	NR	NR
	10/7/2003	NR	1.05	396.8	NR	NR	NR
	8/25/2009	NR	0.69	95	NR	NR	NR
	11/1/2017	7.31	1.69	57.7	2.03	16.08	17.53
MW-2	1/14/2002	NR	6.42	168	NR	NR	NR
	5/8/2002	NR	1.07	257	NR	NR	NR
	8/7/2003	NR	0.10	2.30	NR	NR	NR
	10/7/2003	NR	4.43	364	NR	NR	NR
	8/27/2009	NR	0.98	86.0	NR	NR	NR
	11/1/2017	7.70	1.71	-74.3	2.53	6,370	14.21
MW-3	8/7/2003	NR	0.15	68.0	NR	NR	NR
	10/7/2003	NR	5.74	327.8	NR	NR	NR
	8/27/2009	NR	1.01	16.0	NR	NR	NR
	11/1/2017	7.56	0.73	-125.6	2.00	16,100	14.53
MW-4	8/7/2003	NR	5.83	139	NR	NR	NR
	10/7/2003	NR	3.44	383.4	NR	NR	NR
	8/25/2009	NR	2.55	77.0	NR	NR	NR
	11/2/2017	7.80	0.88	-19.8	1.40	11,680	14.86
	5/2/2019	7.34	8.40	140.7	3.04	5,184	9.64
	8/14/2019	7.11	1.82	79.4	0.82	7,485	15.06
	3/10/2020	7.15	8.53	81.6	2.26	4,717	8.60
	10/28/2020	6.65	1.45	116	3.62	11,460	14.50
MW-5	8/7/2003	NR	0.86	190.5	NR	NR	NR
	10/7/2003	NR	1.05	396.8	NR	NR	NR
	8/27/2009	NR	0.99	98.0	NR	NR	NR
	11/2/2017	8.10	2.04	18.6	2.16	6,544	15.49
	5/2/2019	7.49	2.01	159.1	4.99	3,070	9.92
	8/14/2019	7.53	0.18	63.4	4.23	4,120	17.45
	3/10/2020	7.80	0.00	21.1	8.24	7,140	11.00
	10/28/2020	7.31	0.29	47.2	2.86	4,895	15.50
MW-6	8/25/2009	NR	NR	-50.0	NR	NR	NR
	11/9/2017	7.39	0.62	-112.7	NR	6,787	14.81
	5/2/2019	9.31	11.4	94.8	5.91	501	7.66
	8/14/2019	6.82	0.83	3.10	15.5	7,265	17.13
	3/10/2020	7.62	0.01	-154.3	25.4	16,558	11.50
	10/28/2020	7.08	0.26	-137.5	0.78	10,037	12.60
MW-7	11/9/2017	7.72	7.49	-50.7	58.9	5,026	10.72
MW-8	11/9/2017	7.28	4.03	-28.7	NR	5,666	11.71
MW-9	11/9/2017	7.75	6.40	-42.6	2.00	3,573	11.78

Table 3: Groundwater Field Parameter Results
Former One-Hour Valet Dry Cleaners
1214 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Parameter		pH	Dissolved oxygen	Oxidation Reduction Potential	Turbidity	Specific Conductivity	Temperature
Units		S.U.	mg/L	mV	NTU	uS/cm	°C
Monitoring Well ID	Sample Date						
PZ-1	1/15/2002	NR	0.66	-65.3	NR	NR	NR
	5/8/2003	NR	1.31	-18.3	NR	NR	NR
	8/8/2003	NR	0.12	-93.7	NR	NR	NR
	10/7/2003	NR	0.09	-97.1	NR	NR	NR
	8/25/2009	NR	0.83	-73.0	NR	NR	NR
	11/25/2017	8.14	0.64	38.5	20.3	15,260	13.09
PZ-1 abandoned on 1/11/2018. PZ-1R installed on 4/18/2019.							
PZ-1R	5/2/2019	7.05	1.01	-102.6	3.02	3,351	12.25
	8/14/2019	6.97	0.21	-138.4	11.2	4,930	14.36
	3/10/2020	7.58	0.00	-270.1	5.21	3,818	11.10
	10/28/2020	6.47	0.21	-126.9	3.48	11,394	13.80
PZ-2	8/8/2003	NR	0.19	-41.3	NR	NR	NR
	10/6/2003	NR	0.15	-35.1	NR	NR	NR
	8/27/2009	NR	0.78	-16.0	NR	NR	NR
	11/1/2017	7.64	2.67	-100.3	51.2	5,405	13.52
PZ-2 abandoned on 7/19/2019. PZ-2R installed on 7/19/2019.							
PZ-2R	8/14/2019	7.15	0.13	-36.8	4.72	7,977	13.85
	3/10/2020	7.29	0.10	-68.3	8.35	7,762	10.20
	10/28/2020	6.99	0.35	-80.6	3.48	9,724	12.90
PZ-3	8/25/2009	NR	0.72	-53.0	NR	NR	NR
	11/2/2017	7.98	1.34	-103.8	17.8	6,042	12.18
PZ-3 abandoned on 1/11/2018							
PZ-4	8/25/2009	NR	0.72	-55.0	NR	NR	NR
	11/2/2017	7.76	1.47	-111.8	8.75	10,580	12.94
	5/2/2019	7.02	2.99	48.2	5.56	2,193	11.39
	8/14/2019	6.95	0.24	-40.0	6.87	6,714	16.55
	3/10/2020	6.98	0.24	-61.7	9.25	5,098	11.60
	10/28/2020	8.77	7.72	12.4	4.46	366	13.40

Notes:

S.U. = Standard Units
mg/L = milligrams per Liter
mV = millivolts
umhos/cm = micromhos per centimeter
°C = Celsius
NR - Not Recorded

Table 4. MNA Parameter Groundwater Sampling Results

Former One-Hour Valet Dry Cleaners
 1214 West Wells Street, Milwaukee, Wisconsin
 Ramboll Project No. 1690005819

Well ID	Sample Date	Dissolved Oxygen (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Iron, Dissolved (mg/L)	Iron, Ferric (mg/L)	Iron, Ferrous (mg/L)	Methane (µg/L)	Nitrogen, NO ₂ plus NO ₃ (mg/L)	ORP (mV)	Sulfate (mg/L)	Total Organic Carbon (mg/L)
MW-1	1/14/2002	10.39	NA	NA	NA	NA	NA	NA	NA	-37.0	NA	NA
	5/8/2002	3.57	NA	NA	NA	NA	NA	NA	NA	287.1	NA	NA
	8/7/2003	0.22	NA	NA	NA	NA	NA	NA	NA	161.3	NA	NA
	10/7/2003	1.05	0.028	0.049	NA	NA	NA	14	NA	396.8	NA	NA
	8/25/2009	0.69	<10	<10	NA	NA	NA	<10	NA	95.0	NA	1.26
	11/1/2017	1.69	<0.58	<0.52	0.0126 J	0.00 J	<0.017	<1.4	<0.095	57.7	<100	<0.25
MW-2	1/14/2002	6.42	NA	NA	NA	NA	NA	NA	NA	168.4	NA	NA
	5/8/2002	1.07	NA	NA	NA	NA	NA	NA	NA	256.9	NA	NA
	8/7/2003	0.10	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA
	10/7/2003	4.43	0.018	0.021	NA	NA	NA	22	NA	364.0	NA	NA
	8/27/2009	0.98	NA	NA	NA	NA	NA	NA	NA	86.0	NA	NA
	11/1/2017	1.71	<0.58	<0.52	1.77	0.54	1.2 H3	<1.4	<0.095	-74.3	93.5	<0.25
MW-3	8/7/2003	0.15	NA	NA	NA	NA	NA	NA	NA	68.0	NA	NA
	10/7/2003	5.74	0.16	0.056	NA	NA	NA	45	NA	327.8	NA	NA
	8/27/2009	1.01	NA	NA	NA	NA	NA	NA	NA	16.0	NA	NA
	11/1/2017 ¹	0.73	NA	NA	NA	NA	NA	NA	NA	-125.6	NA	NA
MW-4	8/7/2003	5.83	NA	NA	NA	NA	NA	NA	NA	139.0	NA	NA
	10/7/2003	3.44	0.021	0.033	NA	NA	NA	22	NA	383.4	NA	NA
	8/25/2009	2.55	NA	NA	NA	NA	NA	NA	NA	77.0	NA	NA
	11/2/2017	0.88	NA	NA	NA	NA	NA	NA	NA	-19.8	NA	NA
	5/2/2019	8.40	NA	NA	NA	NA	NA	NA	NA	140.7	NA	NA
	8/14/2019	1.82	NA	NA	NA	NA	NA	NA	NA	79.4	NA	NA
	3/10/2020	8.53	NA	NA	NA	NA	NA	NA	NA	81.6	NA	NA
	10/28/2020	1.45	NA	NA	NA	NA	NA	NA	NA	116.0	NA	NA
MW-5	8/7/2003	0.86	NA	NA	NA	NA	NA	NA	NA	190.5	NA	NA
	10/7/2003	1.05	0.041	0.0097	NA	NA	NA	0.99	NA	396.8	NA	NA
	8/27/2009	0.99	<10	<10	NA	NA	NA	136	NA	98.0	NA	1.82
	11/2/2017	2.04	NA	NA	NA	NA	NA	NA	NA	18.6	NA	NA
	5/2/2019	2.01	NA	NA	NA	NA	NA	NA	NA	159.1	NA	NA
	8/14/2019	0.18	NA	NA	NA	NA	NA	NA	NA	63.4	NA	NA
	3/10/2020	0	NA	NA	NA	NA	NA	NA	NA	21.1	NA	NA
	10/28/2020	0.29	NA	NA	NA	NA	NA	NA	NA	47.2	NA	NA
MW-6	8/25/2009	1.0	NA	NA	NA	NA	NA	NA	NA	-50.0	NA	NA
	11/9/2017 ¹	0.62	<0.58	<0.52	13.6	8.3	5.2 H3	<1.4	<0.095	-112.7	82.4	<0.25
	5/2/2019	11.38	<0.58	<0.52	103	1030	<0.20	<1.4	0.25 J	94.8	41.8	6.0
	8/14/2019	0.83	<0.58	<0.52	1.7	<0.20	2.1 H3	<1.4	<0.0	3.1	95.6	0.57 J
	3/10/2020	0.01	<1.2	<1.2	6.68	<0.20	7.4 H3	75.2	<0.059	-154.3	87 J	1.8
	10/28/2020	0.26	NA	NA	NA	NA	NA	NA	NA	-137.5	NA	NA
MW-7	8/26/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/9/2017 ²	7.49	NA	NA	NA	NA	NA	NA	NA	-50.7	NA	NA
MW-8	8/26/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/9/2017 ³	4.03	NA	NA	NA	NA	NA	NA	NA	-28.7	NA	NA
MW-9	8/27/2009	NA	<10	<10	NA	NA	NA	<10	NA	NA	NA	1.27
	11/9/2017	6.40	NA	NA	NA	NA	NA	NA	NA	-42.6	NA	NA

Table 4. MNA Parameter Groundwater Sampling Results

Former One-Hour Valet Dry Cleaners
 1214 West Wells Street, Milwaukee, Wisconsin
 Ramboll Project No. 1690005819

Well ID	Sample Date	Dissolved Oxygen (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Iron, Dissolved (mg/L)	Iron, Ferric (mg/L)	Iron, Ferrous (mg/L)	Methane (µg/L)	Nitrogen, NO ₂ plus NO ₃ (mg/L)	ORP (mV)	Sulfate (mg/L)	Total Organic Carbon (mg/L)	
PZ-1	1/15/2002	0.66	NA	NA	NA	NA	NA	NA	NA	-65.3	NA	NA	
	5/8/2003	1.31	NA	NA	NA	NA	NA	NA	NA	-18.3	NA	NA	
	8/8/2003	0.12	NA	NA	NA	NA	NA	NA	NA	-93.7	NA	NA	
	10/7/2003	0.09	1.7	0.48	NA	NA	NA	7	NA	-97.1	NA	NA	
	8/25/2009	0.83	<10	<10	NA	NA	NA	<10	NA	-73.0	NA	2.04	
	11/2/2017	0.64	<0.58	<0.52	2.29	2.2	0.060	H3	<1.4	0.33	38.5	155	0.50 J
PZ-1 abandoned on 1/11/2018. PZ-1R installed on 4/18/2019.													
PZ-1R	5/2/2019	1.01	337	32.4	5.88	<0.20	5.8	H3	23.1	<0.095	-102.6	101	124 J
	8/14/2019	0.21	3060	87.2	5.70	<0.20	6.5	H3	129	<0.095	-138.4	93.1	184
	3/10/2020	0	2130	974	4.60	<0.20	5.1	H3	162	<0.059	-270.1	85.9	115
	10/28/2020	0.21	1560	1320	NA	NA	168	C4, H3	1510	NA	-126.9	4.9 J, D3	2440
PZ-2	8/8/2003	0.19	NA	NA	NA	NA	NA	NA	NA	-41.3	NA	NA	
	10/6/2003	0.15	1.3	0.79	NA	NA	NA	60	NA	-35.1	NA	NA	
	8/27/2009	0.78	NA	NA	NA	NA	NA	NA	NA	-16.0	NA	NA	
	11/1/2017 ¹	2.67	<0.58	<0.52	8.82	5.7	3.1	23.1	<0.095	-100.3	178	<0.25	
	5/2/2019 ⁴	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
PZ-2 abandoned on 7/19/2019. PZ-2R installed on 7/19/2019.													
PZ-2R	8/14/2019	0.13	0.82 J	<0.52	3.20	<0.20	3.6	H3	22.0	<0.095	-36.8	164	0.40 J
	3/10/2020	0.10	<1.2	<1.2	2.80	<0.20	2.9	H3, M1	10.3	<0.059	-68.3	140	0.36 J MO
	10/28/2020	0.35	NA	NA	NA	NA	NA	NA	NA	-80.6	NA	NA	
PZ-3	8/25/2009	0.72	NA	NA	NA	NA	NA	NA	NA	-53.0	NA	NA	
	11/2/2017	1.34	NA	NA	NA	NA	NA	NA	NA	-103.8	NA	NA	
PZ-3 abandoned on 1/11/2018													
PZ-4	8/25/2009	0.72	NA	NA	NA	NA	NA	NA	NA	-55.0	NA	NA	
	11/2/2017	1.47	NA	NA	NA	NA	NA	NA	NA	-111.8	NA	NA	
	5/2/2019	2.99	NA	NA	NA	NA	NA	NA	NA	48.2	NA	NA	
	8/14/2019	0.24	NA	NA	NA	NA	NA	NA	NA	-40.0	NA	NA	
	3/10/2020	0.24	NA	NA	NA	NA	NA	NA	NA	-61.7	NA	NA	
	10/28/2020	7.72	NA	NA	NA	NA	NA	NA	NA	12.4	NA	NA	

Notes:

J = Estimated concentration at or above the level of detection and below the level of quantification.

mg/L = milligrams per liter

mV = millivolts

NA = Data was not collected or not able to be collected.

NS = Not sampled.

ORP = Oxidation-reduction potential; measured in the field.

ug/L = micrograms per liter

All sampling results prior to 2017 obtained from a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

(1) Well cap either missing or not plugged at time of inspection; potential for water and other constituents to have entered the well.

(2) Monitoring well purged dry after first stabilization parameter reading. Well sampled later in day without collecting new stabilization parameters.

(3) Monitoring well purged dry before water passed completely through flow-through cell. Stabilization parameters collected from flow-through cell approximately 4/5 of the way full.

(4) Monitoring well was damaged during site redevelopment activities and was not sampled.

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

H3 = Sample was received or analysis requested beyond the recognized method holding time.

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.

C4 = Sample container did not meet EPA or method requirements

Table 5. Groundwater Analytical Results - Summary of Detected Constituents
Former One-Hour Valet Dry Cleaners
1214 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Analyte ^{1,2}		Benzene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene ³	Vinyl chloride	Xylenes, total ⁴
CAS		71-43-2	67-66-3	75-35-4	156-59-2	156-60-5	100-41-4	75-09-2	127-18-4	108-88-3	79-01-6	95-63-6	75-01-4	1330-20-7
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5	6	7	70	100	700	5	5	800	5	480	0.2	2000
NR 140 PAL		0.5	0.6	0.7	7	20	140	0.5	0.5	160	0.5	96	0.02	400
MW-1	1/14/2002	ND	<0.23	<0.27	<0.21	<0.25	<0.22	<0.24	<0.22	<0.41	0.46 J	<0.15	44	#N/A
	5/8/2002	ND	<0.1	<0.11	<0.11	<0.11	<0.08	<0.24	<0.15	<0.08	<0.13	<0.11	<0.16	#N/A
	8/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.9	0.3 J	<0.25	<0.25	<0.5
	10/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
	8/25/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5
MW-2	11/1/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	<0.18	<1.5
	1/14/2002	ND	<0.23	<0.21	<0.21	<0.25	<0.22	<0.22	<0.22	<0.41	<0.24	<0.26	<0.25	#N/A
	5/8/2002	ND	<0.1	<0.11	<0.11	<0.11	<0.08	<0.24	<0.15	<0.08	<0.13	<0.11	<0.16	#N/A
	8/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.32 J	<0.25	<0.25	<0.25	<0.5
	10/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
MW-3	8/27/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5
	11/1/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	<0.18	<1.5
	1/15/2002	ND	<0.23	<0.27	<0.21	<0.25	<0.22	<0.22	<0.22	<0.41	<0.24	<0.26	<0.25	#N/A
	5/8/2002	ND	<0.1	<0.11	<0.11	<0.11	<0.08	<0.24	<0.15	0.32	0.34 J	<0.11	<0.16	#N/A
	8/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.88	0.42 J	<0.25	<0.25	<0.5
MW-4	10/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.25	<0.25	<0.25	<0.25	<0.5
	8/27/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5
	11/1/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	<0.18	<1.5
	8/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	0.88 J	0.9	0.71 J	0.34 J	<0.25	<0.5
	10/7/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	0.57 J	<0.25	<0.25	<0.25	<0.25	<0.5
MW-5	8/25/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	7	<0.5	<0.2	<0.2	<0.2	<0.5
	11/2/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	7.8	<0.50	<0.33	<0.50	<0.18	<1.5
	5/2/2019	<0.49	<2.5	<0.49	23.0	<2.2	<0.44	<1.2	850	<0.34	5.0	<1.7	<0.35	<3.0
	8/14/2019	<0.25	<1.3	<0.24	0.4 J	<1.1	<0.22	<0.58	79.1	<0.17	7.0 J	<0.84	<0.17	<1.5
	3/10/2020	<0.25	<1.3	<0.24	<0.27	<1.1	<0.32	<0.58	57	<0.27	0.47 J	<0.84	<0.17	<1.5
MW-6	10/28/2020	<0.25	<1.3	<0.24	<0.27	<0.46	<0.32	<0.58	24.0	<0.27	0.26 J	<0.84	<0.17	<1.5
	8/7/2003	ND	<0.25	<0.5	11	<0.5	<0.5	<1	80	0.9	7.9	0.34 J	<0.25	<0.5
	10/7/2003	ND	<0.25	<0.5	150	1.2	<0.5	<1	93	<0.25	6.4	<0.25	<0.25	<0.5
	8/27/2009	<0.2	<0.2	<0.5	110	1.2	<0.5	<1	140	<0.5	<0.2	32	22	<0.5
	11/2/2017	<0.50	<2.5	<0.41	73.6	1.5	<0.50	<0.23	30.3	<0.50	3.2	<0.50	0.45 J	<1.5
MW-7	5/2/2019	<0.25	<1.3	<0.24	11.3	<1.1	<0.22	<0.58	20.5	<0.17	3.8	<0.84	2.1	<1.5
	8/14/2019	<0.25	<1.3	<0.24	31.2	<1.1	<0.22	<0.58	29.1	<0.17	5.9	<0.84	0.73 J	<1.5
	3/10/2020	<0.25	<1.3	<0.24	14.1	<1.1	<0.32	<0.58	23.8	<0.27	5.0	<0.84	2.2	<1.5
	10/28/2020	<0.25	<1.3	<0.24	11.3	0.72 J	<0.32	<0.58	21.7	<0.27	5.2	<0.84	1.5	<1.5
	8/25/2009	<0.2	<2	<5	980	<5	<5	<10	<5	<5	18	<2	57	<5
MW-8	11/9/2017	<0.50	<2.5	<0.41	4.5	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	1.0	<1.5
	5/2/2019	<0.25	<1.3	<0.24	<0.27	<1.1	<0.22	<0.58	<0.33	<0.17	<0.26	<0.84	<0.17	<1.5
	8/14/2019	<0.25	<1.3	<0.24	14.7 M1	<1.1	<0.22	<0.58	7.3	<0.17	0.37 J	<0.84	1.6	<1.5
	3/10/2020	<0.25	<1.3	<0.24	239	6.8	<0.32	<0.58	<0.33	<0.27	13.5	<0.84	11.5	<1.5
	10/28/2020	<0.25	<1.3	<0.24	172	5.4	<0.32	<0.58	<0.33	<0.27	15.6	<0.84	8.4	<1.5
MW-9	8/26/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5
	11/9/2017 ⁵	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	8/27/2009	0.28	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.64	<0.2	<0.2	<0.2	<0.5
	11/9/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	<0.50	0.59 J	<0.33	<0.50	<0.18	<1.5

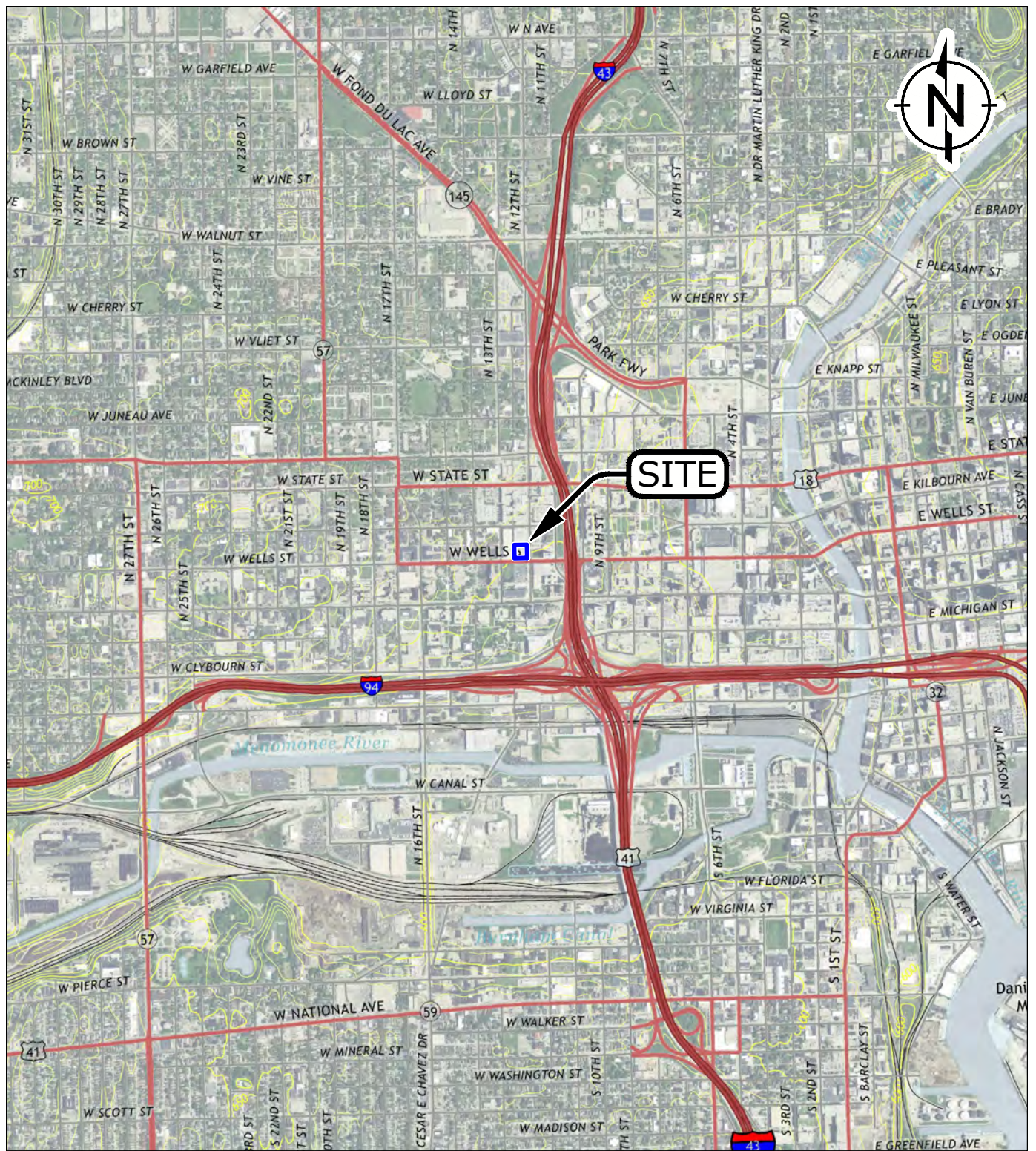
Table 5. Groundwater Analytical Results - Summary of Detected Constituents
 Former One-Hour Valet Dry Cleaners
 1214 West Wells Street, Milwaukee, Wisconsin
 Ramboll Project No. 1690005819

Analyte ^{1,2}	Benzene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Methylene chloride	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene ³	Vinyl chloride	Xylenes, total ⁴				
	CAS	71-43-2	67-66-3	75-35-4	156-59-2	156-60-5	100-41-4	75-09-2	127-18-4	108-88-3	79-01-6	95-63-6	75-01-4	1330-20-7			
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L				
NR 140 ES	5	6	7	70	100	700	5	5	800	5	480	0.2	2000				
NR 140 PAL	0.5	0.6	0.7	7	20	140	0.5	0.5	160	0.5	96	0.02	400				
PZ-1	1/15/2002	ND	<1.2	<1.4	400	4	J	<1.1	<1.1	<1.1	<2.1	<1.2	<0.75	<1.3	#N/A		
	5/8/2003	ND	<5	<5.5	3000	22		<4	23	J	8500	<4	2800	<5.5	22	J	#N/A
	8/8/2003	ND	0.3	J	8.4	2600	18.0	1.8	<1	27000	4.8	2500	<0.25	11	J	1.2	
	10/7/2003	ND	<120	<250	2600	<250	<250	<500	36000	<120	2600	<120	<120	<120	<250		
	8/25/2009	<32	<32	<80	2000	<80	<80	<160	61000	<80	1600	<32	<32	<32	<80		
	11/2/2017	<125	<625	<103	414	<64.1	<125	<58.1	16200	<125	435	<125	<43.9	<375			
PZ-1 abandoned on 1/11/2018. PZ-1R was installed on 4/18/2019.																	
PZ-1R	5/2/2019	<123	<637	<122	30000	<545	<109	<290	60300	<86.1	3310	<420	<87.3	<750			
	8/14/2019	<123	<637	140	J	108000	<545	<109	<290	83700	<86.1	5450	<420	1110	J	<750	
	3/10/2020	<123	<637	<122	36400	<545	<159	<290	23200	<135	9060	<420	2630	<750			
	10/28/2020	<123	<637	<122	6500	<232	<159	<290	28800	<135	2280	<420	822	<750			
PZ-2	8/8/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.43	J	<0.25	<0.25	5.8	<0.5		
	10/6/2003	ND	<0.25	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.25	<0.25	<0.25	<0.25	8.9	<0.5		
	8/27/2009	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.2	14	<0.5		
	11/1/2017	<0.50	<2.5	<0.41	4.1	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	<11.0	<1.5			
	5/2/2019 ⁶	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
PZ-2 abandoned on 7/19/2019. PZ-2R was installed on 7/19/2019.																	
PZ-2R	8/14/2019	<0.25	<1.3	<0.24	26.9	<1.1	<0.22	<0.58	12.7	<0.17	0.39	J	<0.84	15.5	<1.5		
	3/10/2020	<0.25	<1.3	<0.24	33.9	<1.1	<0.32	<0.58	<0.33	<0.27	<0.26	<0.84	11.3	<1.5			
	10/28/2020	<0.25	<1.3	<0.24	90.2	1.1	J	<0.32	<0.58	<0.33	<0.27	<0.26	<0.84	10.8	<1.5		
PZ-3	8/26/2004	ND	<2	<5	440	<5	<5	<10	56	<2	<2	<2	<2	<5			
	10/7/2004	ND	<1	<2.5	300	<2.5	<2.5	<5	73	<1	<1	<1	<1	<2.5			
	8/25/2009	<2	<2	<5	1100	11.0	<5	<10	5.6	<5	7.1	<2	3.9	<5			
	11/2/2017	<25.0	<125	<20.5	2060	22.4	J	<25.0	<11.6	<25.0	<25.0	144	<25.0	<8.8	<75.0		
PZ-3 abandoned on 1/11/2018.																	
PZ-4	8/25/2009	<0.20	<0.2	<0.5	4.4	<0.5	<0.5	<1	0.84	<0.5	0.56	<0.2	<0.2	<0.5			
	11/2/2017	<0.50	<2.5	<0.41	<0.26	<0.26	<0.50	<0.23	<0.50	<0.50	<0.33	<0.50	1.3	<1.5			
	5/2/2019	<0.49	<2.5	<0.49	20.8	<2.2	<0.44	<1.2	351	<0.34	3	<1.7	1	<3.0			
	8/14/2019	<0.25	<1.3	<0.24	<0.27	<1.1	<0.22	<0.58	15.8	<0.17	<0.26	<0.84	1.8	<1.5			
	3/10/2020	<0.25	<1.3	<0.24	1.4	<1.1	<0.32	<0.58	16	<0.27	<0.26	<0.84	1.7	<1.5			
10/28/2020	<0.25	<1.3	<0.24	0.42	J	<0.46	<0.32	<0.58	23.5	<0.27	0.37	J	<0.84	<0.17	<1.5		

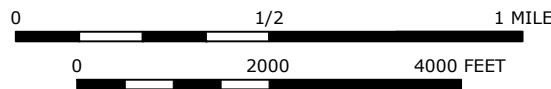
Notes:
 All results reported in micrograms per Liter (ug/L)
 ES = Enforcement Standard
 PAL = Preventive Action Limit
Bold value = NR 140 ES Exceedance
Italic Value = NR 140 PAL Exceedance
 #N/A = Not analyzed
 NS = Not sampled
 J = Estimated concentration. Laboratory results reported between the limit of detection and limit of quantification.
¹ Analytical results are displayed for detected parameters only.
² All sampling results prior to 2017 obtained from a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. on February 24, 2012.
³ Standards are for 1,2,4- and 1,3,5-Trimethylbenzene
⁴ Standards are for Total Xylenes (-m, -p, and -o).
⁵ MW-8 not sampled during the November 2017 groundwater sampling event because well did not recharge sufficiently.
⁶ PZ-2 was not sampled during the May 2019 groundwater sampling event because well was damaged during site redevelopment activities.
 ND = Not detected at or above limit of detection.
 M1 = Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 C4 = Sample container did not meet EPA or method requirements.
 D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

FIGURES


E:_CAD\1690005819_Former 1hr Dry Cleaners\ Design Report\01_Site Location Map.dwg



CONTOUR INTERVAL 10 FEET



LEGEND:

 PROPERTY BOUNDARY (APPROXIMATE)

SOURCE:
2016 USGS 7.5 Minute Series Milwaukee, Wisconsin Topographic Quadrangle.
Site Location; N: 43.040537° W: 87.927706 WGS84



QUADRANGLE LOCATION



SITE LOCATION MAP
 FORMER ONE-HOUR VALET DRY CLEANERS
 1214 WEST WELLS STREET
 MILWAUKEE, WISCONSIN

FIGURE
1

DRAFTED BY: APR

DATE: 2/1/18

1690005819

L:\Loop Project Files\CAD\1690005819_Former 1hr Dry Cleaners\2021-01\02_Site Layout.dwg

HOSPITAL PARKING STRUCTURE



- LEGEND**
- PROPERTY BOUNDARY
 - /// BUILDING FOOTPRINT
 - ▭ ASPHALT
 - ▨ CONCRETE
 - FENCE LINE
 - 75 --- 1-FT ELEVATION CONTOUR
 - E-E- UNDERGROUND ELECTRIC
 - OHE- OVERHEAD ELECTRIC
 - T-T- TELEPHONE
 - W-W- WATER LINE
 - G-G- GAS
 - TV-TV- CABLE TV
 - FO-FO- FIBER OPTIC
 - STM- STORMWATER SEWER
 - SAN- SANITARY SEWER
 - STEAM- STEAM
 - ▣ CATCH BASIN
 - MANHOLE
 - ⊙ VALVE
 - ⬆ TRAFFIC LIGHT
 - ⊠ TRANSFORMER
 - ⊗ METER
 - ⊗ LIGHT POLE
 - ⊠ GUY UTILITY POLE / GUY
 - 🌳 TREE
 - 🔥 FIRE HYDRANT
 - ⊠ TELEPHONE PEDESTAL
 - ⊠ CONTROL BOX
 - ⊕ MONITORING WELL
 - ▲ SOIL GAS SAMPLE
 - ⊗ INJECTION WELL (APPROXIMATE LOCATION)
 - INJECTION POINT (APPROXIMATE LOCATION)

REFERENCE: THE SITE LAYOUT, SITE FEATURES, ELEVATIONS, UTILITIES, AND OTHER FEATURES NEAR THE PROPERTY WERE OBTAINED FROM GRAEF-USA IN DECEMBER 2017. MONITORING WELLS WERE SURVEYED IN OCTOBER 2019.



SITE LAYOUT
FORMER ONE-HOUR VALET DRY CLEANERS
1214 WEST WELLS STREET
MILWAUKEE, WISCONSIN

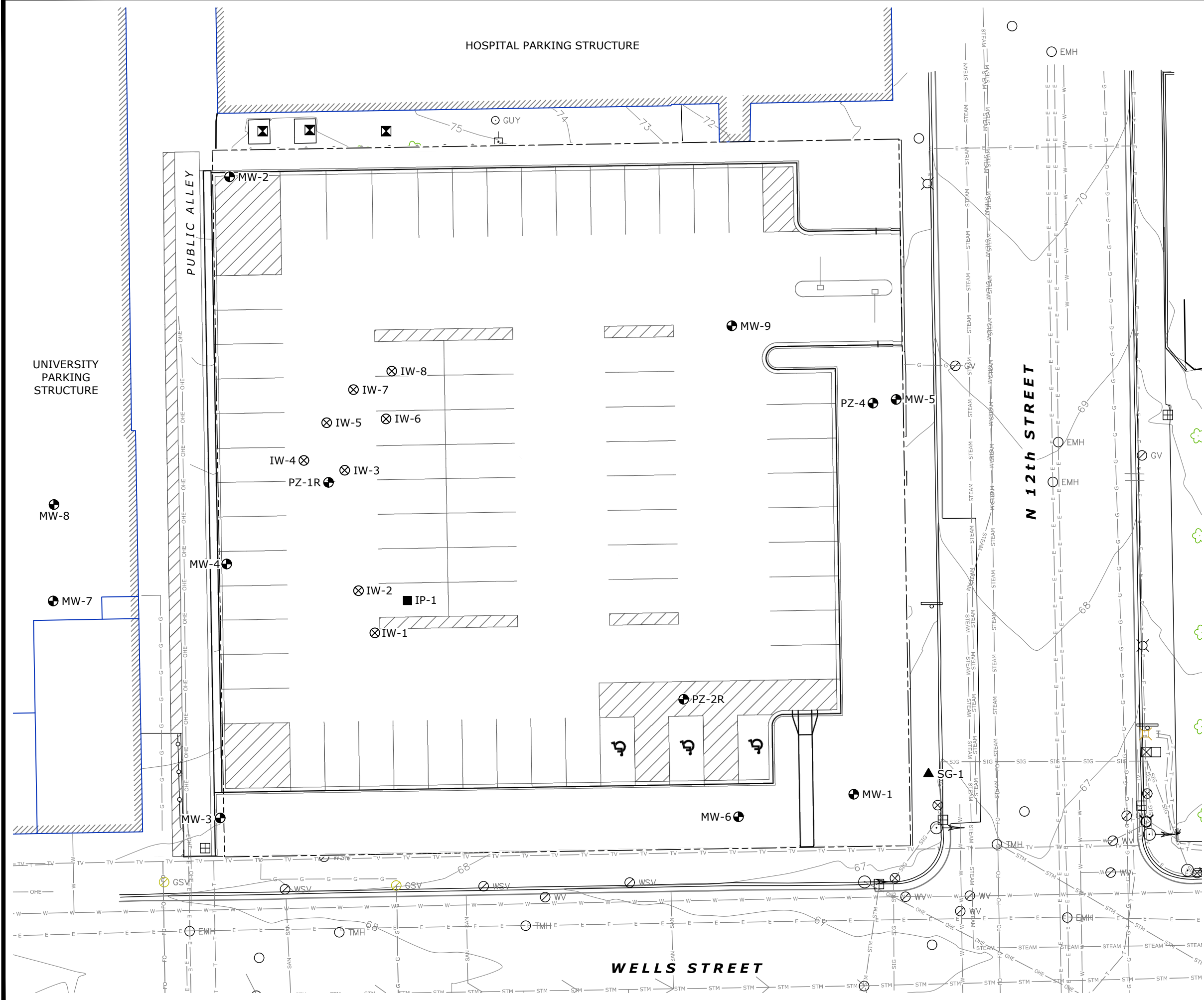


FIGURE
2

DRAFTED BY: HJW

DATE: 1/20/2021

1690005819



L:\Loop Project Files\CAD\1690005819_Former 1hr Dry Cleaners\2021-01\11_Supplemental In-Situ ERD Injection Locations.dwg

HOSPITAL PARKING STRUCTURE



LEGEND

- PROPERTY BOUNDARY
- BUILDING FOOTPRINT
- ASPHALT
- CONCRETE
- FENCE LINE
- 1-FT ELEVATION CONTOUR
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- TELEPHONE
- WATER LINE
- GAS
- CABLE TV
- FIBER OPTIC
- STORMWATER SEWER
- SANITARY SEWER
- STEAM
- CATCH BASIN
- MANHOLE
- VALVE
- TRAFFIC LIGHT
- TRANSFORMER
- METER
- LIGHT POLE
- UTILITY POLE / GUY
- TREE
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- CONTROL BOX
- MONITORING WELL
- CONFIRMATION SAMPLE
- SOIL TREATMENT BOUNDARY
- INJECTION WELL (APPROXIMATE LOCATION)
- INJECTION POINT (APPROXIMATE LOCATION)

REFERENCE: THE SITE LAYOUT, SITE FEATURES, ELEVATIONS, UTILITIES, AND OTHER FEATURES NEAR THE PROPERTY WERE OBTAINED FROM GRAEF-USA IN DECEMBER 2017. MONITORING WELLS WERE SURVEYED IN OCTOBER 2019.



SUPPLEMENTAL IN-SITU ERD INJECTION LOCATIONS
 FORMER ONE-HOUR VALET DRY CLEANERS
 1214 WEST WELLS STREET
 MILWAUKEE, WISCONSIN

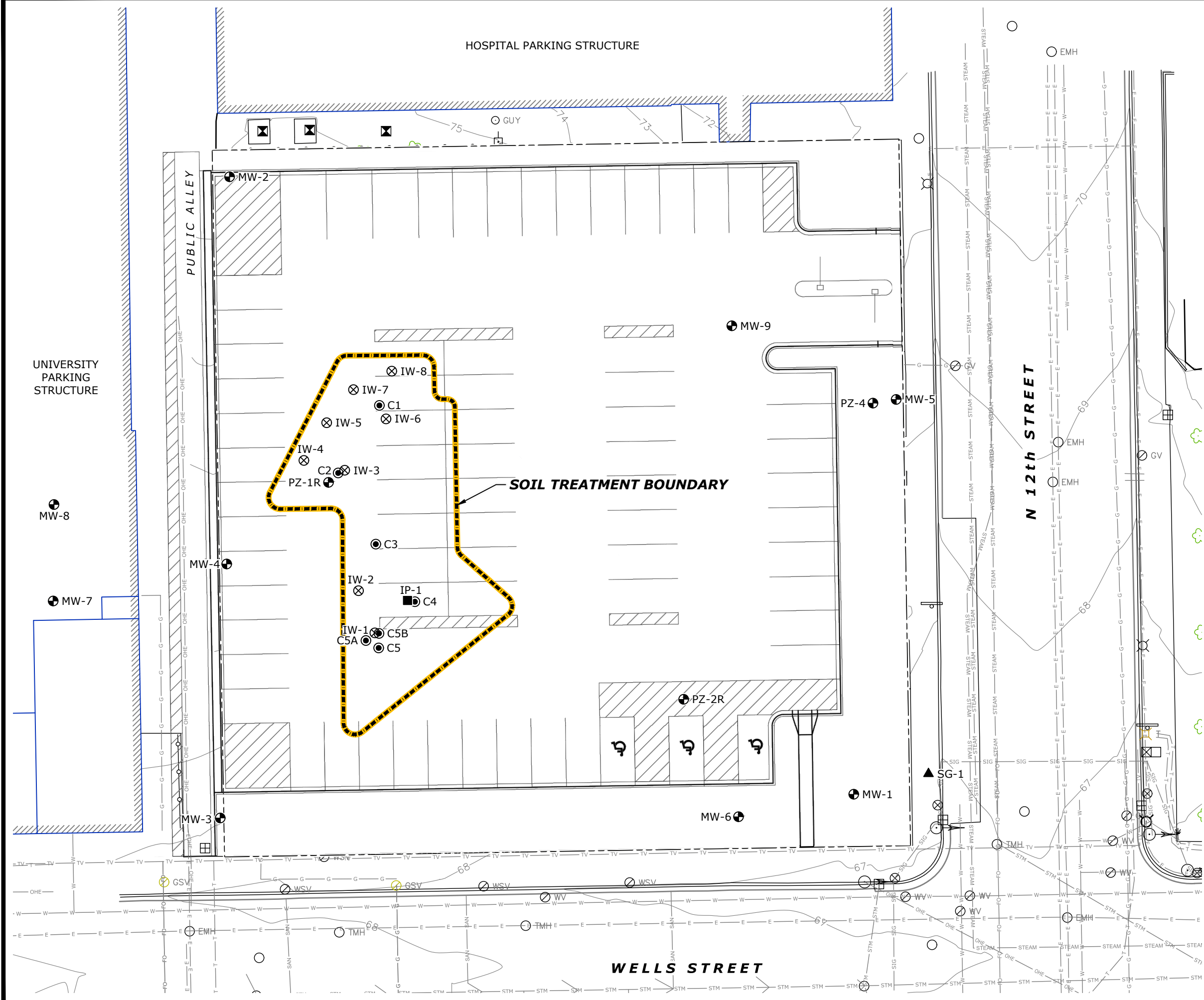


FIGURE 3

DRAFTED BY: HJW

DATE: 1/20/2021

1690005819



L:\Loop Project Files\CAD\1690005819_Former 1hr Dry Cleaners\2021-01\04_Groundwater Potentiometric Surface Map (October 2020).dwg

HOSPITAL PARKING STRUCTURE

PUBLIC ALLE

UNIVERSITY PARKING STRUCTURE

N 12th STREET

WELLS STREET



- LEGEND**
- PROPERTY BOUNDARY
 - BUILDING FOOTPRINT
 - ASPHALT
 - CONCRETE
 - FENCE LINE
 - 75 1-FT ELEVATION CONTOUR
 - UNDERGROUND ELECTRIC
 - OVERHEAD ELECTRIC
 - TELEPHONE
 - WATER LINE
 - GAS
 - CABLE TV
 - FIBER OPTIC
 - STORMWATER SEWER
 - SANITARY SEWER
 - STEAM
 - CATCH BASIN
 - MANHOLE
 - VALVE
 - TRAFFIC LIGHT
 - TRANSFORMER
 - METER
 - LIGHT POLE
 - GUY UTILITY POLE / GUY
 - TREE
 - FIRE HYDRANT
 - TELEPHONE PEDESTAL
 - CONTROL BOX
 - MONITORING WELL
 - 638.54 GROUNDWATER ELEVATION (FT)
 - 639- GROUNDWATER CONTOUR (2-FT INTERVAL)
 - GROUNDWATER FLOW DIRECTION

NOTE: GROUNDWATER MEASUREMENTS TAKEN AT PZ-1R, PZ-2R, AND PZ-4 WERE NOT INCLUDED IN CONTOURING CALCULATIONS.

REFERENCE: THE SITE LAYOUT, SITE FEATURES, ELEVATIONS, UTILITIES, AND OTHER FEATURES NEAR THE PROPERTY WERE OBTAINED FROM GRAEF-USA IN DECEMBER 2017. MONITORING WELLS WERE SURVEYED IN OCTOBER 2019.

GROUNDWATER POTENTIOMETRIC SURFACE MAP (OCTOBER 2020)
 FORMER ONE-HOUR VALET DRY CLEANERS
 1214 WEST WELLS STREET
 MILWAUKEE, WISCONSIN

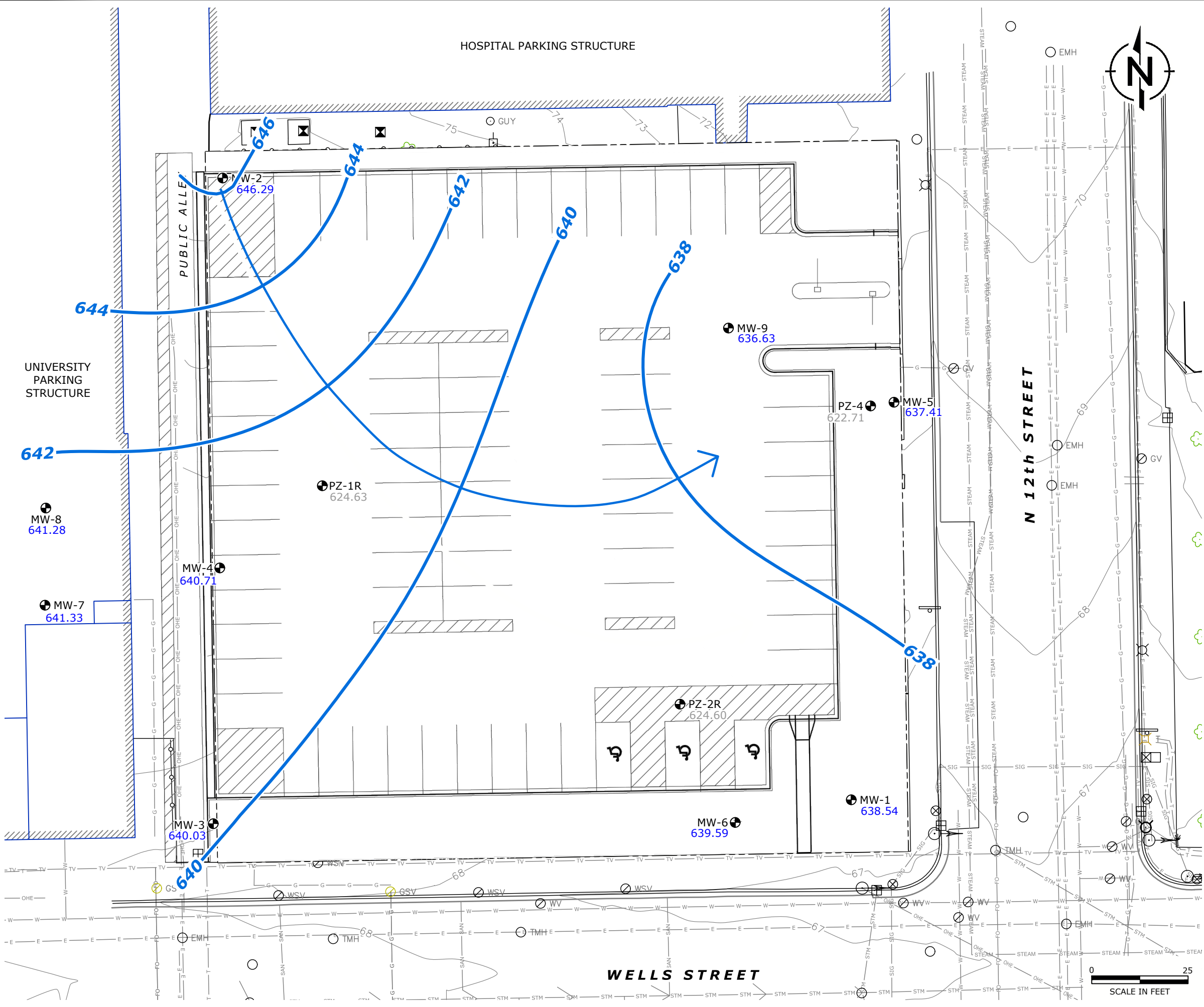


FIGURE
4

DRAFTED BY: HJW

DATE: 1/25/2021

1690005819



L:\Loop Project Files\CAD\1690005819_Former 1hr Dry Cleaners\2021-01-05_CVOC Concentrations in GW (October 2020).dwg

HOSPITAL PARKING STRUCTURE

PUBLIC ALLEY

UNIVERSITY PARKING STRUCTURE

WELLS STREET



- LEGEND**
- PROPERTY BOUNDARY
 - /// BUILDING FOOTPRINT
 - ASPHALT
 - CONCRETE
 - FENCE LINE
 - 75 1-FT ELEVATION CONTOUR
 - E—E— UNDERGROUND ELECTRIC
 - OHE— OVERHEAD ELECTRIC
 - T—T— TELEPHONE
 - W—W— WATER LINE
 - G—G— GAS
 - TV—TV— CABLE TV
 - FO—FO— FIBER OPTIC
 - STM— STORMWATER SEWER
 - SAN— SANITARY SEWER
 - STEAM— STEAM
 - ☐ CATCH BASIN
 - MANHOLE
 - ⊗ VALVE
 - ⬮ TRAFFIC LIGHT
 - ⊠ TRANSFORMER
 - ⊗ METER
 - ⊗ LIGHT POLE
 - ⊠ GUY UTILITY POLE / GUY
 - 🌳 TREE
 - ⊗ FIRE HYDRANT
 - ⊠ TELEPHONE PEDESTAL
 - ⊠ CONTROL BOX
 - ⊕ MONITORING WELL

All results reported in micrograms per Liter (µg/L)
 ES = Enforcement Standard
 PAL = Preventive Action Limit
Bold value = NR 140 ES Exceedance
Italic Value = NR 140 PAL Exceedance
 ND = No detections
 NS = Not sampled
 J = Estimated concentration. Laboratory results reported between the limit of detection and limit of quantification.

Parameter (CVOCs)	Abbreviations	ES	PAL
cis-1,2-Dichloroethene	cis-1,2-DCE	70	<i>2</i>
trans-1,2-Dichloroethene	trans-1,2-DCE	100	<i>20</i>
Tetrachloroethene	PCE	5	<i>0.5</i>
Trichloroethene	TCE	5	<i>0.5</i>
Vinyl Chloride	VC	0.2	<i>0.02</i>

REFERENCE: THE SITE LAYOUT, SITE FEATURES, ELEVATIONS, UTILITIES, AND OTHER FEATURES NEAR THE PROPERTY WERE OBTAINED FROM GRAEF-USA IN DECEMBER 2017. MONITORING WELLS WERE SURVEYED IN OCTOBER 2019.

CVOC CONCENTRATIONS IN GROUNDWATER (OCTOBER 2020)
 FORMER ONE-HOUR VALET DRY CLEANERS
 1214 WEST WELLS STREET
 MILWAUKEE, WISCONSIN

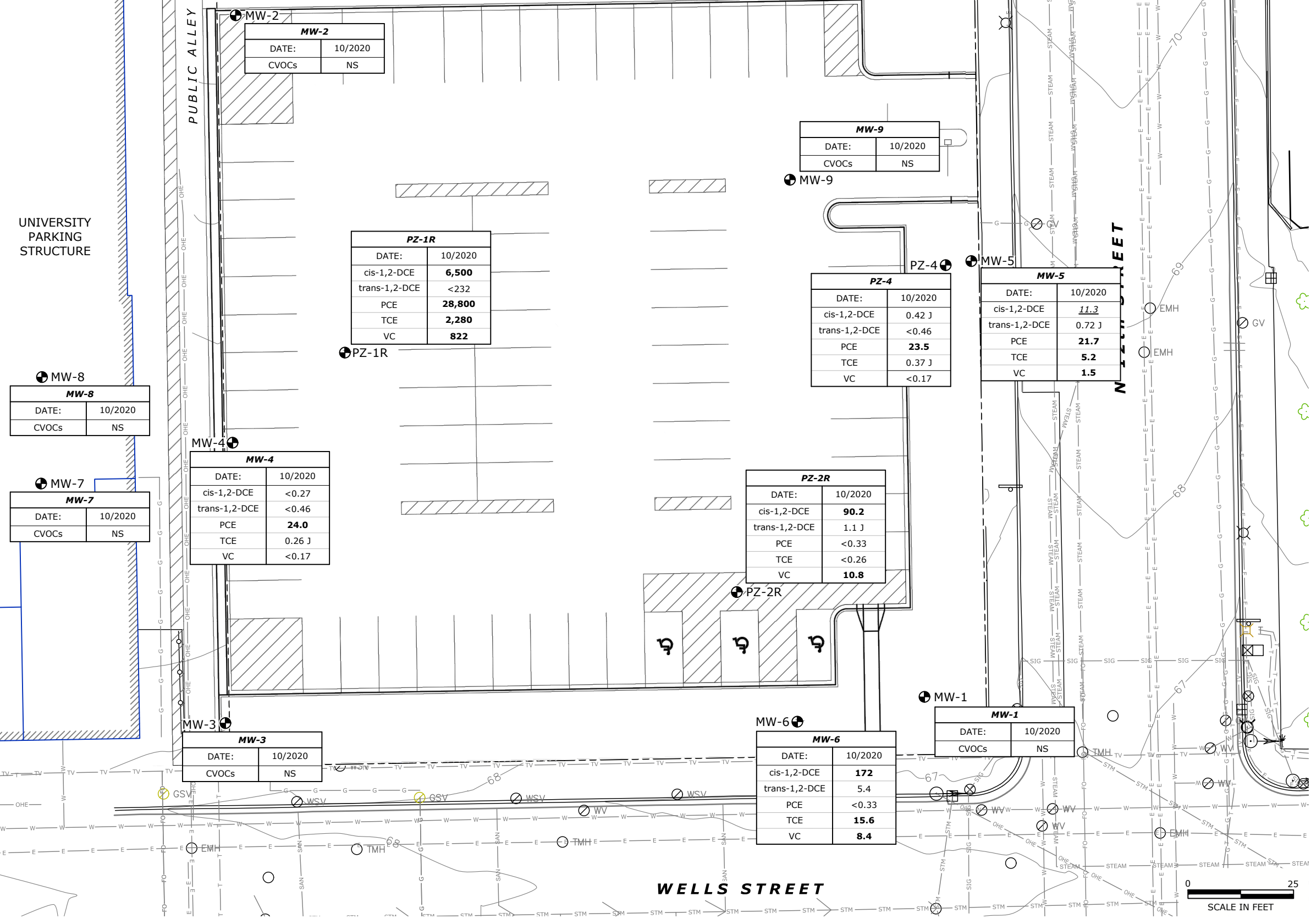


FIGURE
5

DRAFTED BY: HJW

DATE: 1/25/2021

1690005819



APPENDIX A

INJECTION ACTIVITY INFORMATION

Appendix A. Injection Activity
Groundwater Elevations Summary
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	MW-1		MW-2		MW-3		MW-4		MW-5	
Top of Casing Elevation (TOC ft msl) ^(A)	647.95		655.74		649.54		652.32		653.26	
Ground Surface Elevation (ft) ^(A,B)	648.30		656.00		649.70		652.70		650.40	
Top of Well Screen Elevation (ft msl) ^(A)	640.10		645.50		639.50		644.40		641.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	630.10		635.50		629.50		634.40		631.80	
October 2019 Top of Casing Elevation (ft amsl)	647.75		654.70		649.28		651.98		649.23	
October 2019 Ground Surface (ft amsl)	648.16		655.47		649.65		652.33		649.75	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
8/31/2020 ⁽³⁾	8.70	639.05	8.56	646.14	8.30	640.98	9.11	642.87	11.45	637.78
9/1/2020 AM	NM	NM	7.90	646.80	8.36	640.92	9.19	642.79	NM	NM
9/1/2020 PM	NM	NM	7.29	647.41	8.30	640.98	9.15	642.83	NM	NM
9/2/2020 AM	NM	NM	7.20	647.50	8.25	641.03	9.12	642.86	NM	NM
9/2/2020 PM	NM	NM	7.15	647.55	8.25	641.03	8.92	643.06	NM	NM
9/3/2020 AM	NM	NM	7.12	647.58	8.26	641.02	9.04	642.94	NM	NM
9/3/2020 ⁽³⁾	8.70	639.05	7.12	647.58	8.26	641.02	9.04	642.94	11.46	637.77

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

ASML = Above Mean Sea Level

MSL = Mean Sea Level

NI = Not installed at the time of the water level measurement

NM = Not Measured

TOC = Top of Casing

-- = Data Not Available

**Appendix A. Injection Activity
Groundwater Elevations Summary**
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	MW-6		MW-7		MW-8		MW-9		PZ-1 ⁽¹⁾	
Top of Casing Elevation (TOC ft msl) ^(A)	648.11		649.74		649.80		650.27		653.10	
Ground Surface Elevation (ft) ^(A,B)	648.50		649.90		650.00		650.40		653.70	
Top of Well Screen Elevation (ft msl) ^(A)	640.30		648.20		648.40		643.50		623.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	630.30		638.20		638.40		633.50		618.80	
October 2019 Top of Casing Elevation (ft amsl)	648.26		649.56		649.63		650.73		NM	
October 2019 Ground Surface (ft amsl)	648.51		649.75		649.77		651.39		NM	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
8/31/2020 ⁽³⁾	7.04	641.22	7.43	642.13	7.37	642.26	13.25	637.48	--	--
9/1/2020 AM	NM	NM	NM	NM	NM	NM	NM	NM	--	--
9/1/2020 PM	NM	NM	NM	NM	NM	NM	NM	NM	--	--
9/2/2020 AM	NM	NM	NM	NM	NM	NM	NM	NM	--	--
9/2/2020 PM	NM	NM	NM	NM	NM	NM	NM	NM	--	--
9/3/2020 AM	NM	NM	NM	NM	NM	NM	NM	NM	--	--
9/3/2020 ⁽³⁾	7.10	641.16	7.43	642.13	7.21	642.42	13.17	637.56	--	--

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

ASML = Above Mean Sea Level

MSL = Mean Sea Level

NI = Not installed at the time of the water level measurement

NM = Not Measured

TOC = Top of Casing

-- = Data Not Available

**Appendix A. Injection Activity
Groundwater Elevations Summary**
Former One-Hour Valet Dry Cleaners
1614 West Wells Street, Milwaukee, Wisconsin
Ramboll Project No. 1690005819

Well ID	PZ-1R		PZ-2 ⁽²⁾		PZ-2R		PZ-3 ⁽¹⁾		PZ-4	
Top of Casing Elevation (TOC ft msl) ^(A)	--		648.74		--		653.41		649.78	
Ground Surface Elevation (ft) ^(A,B)	--		649.10		--		653.70		650.30	
Top of Well Screen Elevation (ft msl) ^(A)	622.18		624.00		623.04		608.00		609.80	
Bottom of Well Screen Elevation (ft msl) ^(A)	617.18		619.00		618.04		603.00		604.80	
October 2019 Top of Casing Elevation (ft amsl)	652.18		NM		649.539		NM		649.56	
October 2019 Ground Surface (ft amsl)	652.69		NM		650.002		NM		650.20	
Sample Date	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)	Depth to Water (ft)	GW Elevation (ft msl)
8/31/2020 ⁽³⁾	28.96	623.22	--	--	24.90	624.64	--	--	26.74	622.82
9/1/2020 AM	NM	NM	--	--	NM	NM	--	--	NM	NM
9/1/2020 PM	NM	NM	--	--	NM	NM	--	--	NM	NM
9/2/2020 AM	NM	NM	--	--	NM	NM	--	--	NM	NM
9/2/2020 PM	NM	NM	--	--	NM	NM	--	--	NM	NM
9/3/2020 AM	NM	NM	--	--	NM	NM	--	--	NM	NM
9/3/2020 ⁽³⁾	28.80	623.38	--	--	24.72	624.82	--	--	26.73	622.83

Notes:

Data collected prior to 2017 presented in a Site Investigation Report prepared by GZA GeoEnvironmental, Inc. dated February 24, 2012.

^(A) Top of casing elevations, ground surface elevations, and screen intervals presented in GZA GeoEnvironmental, Inc.'s February 24, 2012 Site Investigation Report.

^(B) Relative to mean sea level

⁽¹⁾ PZ-1 and PZ-3 abandoned on 1/11/2018

⁽²⁾ PZ-2 abandoned and replaced on 7/19/2019

⁽³⁾ Groundwater elevation calculated using October 2019 Survey data.

* Groundwater elevation measurements for MW-6, MW-7, MW-8, and MW-9 collected on November 9, 2017.

DTW = Distance to water

ASML = Above Mean Sea Level

MSL = Mean Sea Level

NI = Not installed at the time of the water level measurement

NM = Not Measured

TOC = Top of Casing

-- = Data Not Available

INJECTION DATA SHEET

Location: Milwaukee, WI

Date:

Injection Trailer: Chemgrout

Pump:

Chemical: ABC+

Concentration: 1 Gallon ABC/ 19 Gallons H2O/ 100 lbs. ZVI, 100 lbs Silica Sand, 0.1 Kg of KB-

Redox Tech Crew: Blair Mitchell & Wesley Rivett

Note Taker: Blair

Date:	Injection Point	Screen/ Depth (ft bgs)	Start Time	Stop Time	Injection Pressure (psi)	Flow Rate (gpm)	Planned Volume (gallons)	Actual Volume Injected (gallons)	Notes
8/31/2020	IW-1	15	15:55	15:57	120	10	20	20	
8/31/2020	IW-1	13	15:57	15:59	120	10	20	20	
8/31/2020	IW-2	15	16:11	16:13	140	10	20	20	
8/31/2020	IW-2	13	16:13	16:15	130	10	20	20	
9/1/2020	IW-3	35	7:49	7:51	210	10	20	20	
9/1/2020	IW-3	32.5	7:51	7:53	160	10	20	20	
9/1/2020	IW-3	30	7:53	7:55	110	10	20	20	
9/1/2020	IW-3	27.5	8:02	8:04	120	10	20	20	
9/1/2020	IW-3	25	8:04	8:06	110	10	20	20	
9/1/2020	IW-4	35	8:29	8:31	190	10	20	20	
9/1/2020	IW-4	32.5	8:31	8:33	180	10	20	20	
9/1/2020	IW-4	30	8:35	8:37	160	10	20	20	
9/1/2020	IW-4	27.5	8:40	8:42	140	10	20	20	
9/1/2020	IW-4	25	8:42	8:44	140	10	20	20	
9/1/2020	IW-5	35	9:36	9:38	140	10	20	20	Clogged rod. Redrilled.
9/1/2020	IW-5	32.5	9:38	9:40	140	10	20	20	
9/1/2020	IW-5	30	9:40	9:42	140	10	20	20	
9/1/2020	IW-5	27.5	9:46	9:48	130	10	20	20	
9/1/2020	IW-5	25	9:48	9:58	130	10	20	20	
9/1/2020	IW-6	32.5	10:22	10:24	160	10	20	20	
9/1/2020	IW-6	30	10:24	10:26	160	10	20	20	
9/1/2020	IW-6	27.5	10:28	10:30	140	10	20	20	
9/1/2020	IW-6	25	10:30	10:32	140	10	20	20	
9/1/2020	IW-6	22.5	10:34	10:36	140	10	20	20	
9/1/2020	IW-6	20	10:36	10:38	140	10	20	20	
9/1/2020	IW-7	32.5	11:26	11:28	180	10	20	20	
9/1/2020	IW-7	30	11:28	11:30	180	10	20	20	
9/1/2020	IW-7	27.5	11:32	11:34	180	10	20	20	
9/1/2020	IW-7	25	11:34	11:36	170	10	20	20	
9/1/2020	IW-7	22.5	11:41	11:43	160	10	20	20	
9/1/2020	IW-7	20	11:43	11:45	160	10	20	20	
9/1/2020	IW-8	32.5	13:29	13:31	190	10	20	20	
9/1/2020	IW-8	30	13:31	13:33	190	10	20	20	
9/1/2020	IW-8	27.5	13:38	13:40	170	10	20	20	
9/1/2020	IW-8	25	13:40	13:42	170	10	20	20	
9/1/2020	IW-8	22.5	13:51	13:53	150	10	20	20	
9/1/2020	IW-8	20	13:53	13:55	150	10	20	20	
8/31/2020	IP-1	15	15:33	15:35	140	10	20	20	
8/31/2020	IP-1	13	15:36	15:38	130	10	20	20	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

2. Facility / Owner Information

County: 41 WI Unique Well # of Removed Well: _____ Hicap #: _____
 Latitude / Longitude (see instructions): _____ N DD GPS008
 _____ W ODM SCR002 OTH001
 1/4 / 1/4: _____ Section: _____ Township: _____ Range: E W
 or Gov't Lot #: _____
 Well Street Address: 1214 WEST WELLS STREET
 Well City, Village or Town: MILWAUKEE Well ZIP Code: 53233
 Subdivision Name: _____ Lot #: _____

Facility Name: FORMER ONE HOUR VALET
 Facility ID (FID or PWS): _____
 License/Permit/Monitoring #: _____
 Original Well Owner: _____
 Present Well Owner: _____
 Mailing Address of Present Owner: _____
 City of Present Owner: _____ State: _____ ZIP Code: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 8/31/2020
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach: _____
 Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): DIRECT PUSH
 Formation Type:
 Unconsolidated Formation Bedrock
 Total Well Depth From Ground Surface (ft): 15 Casing Diameter (in): _____
 Lower Drillhole Diameter (in): 2 Casing Depth (ft): _____
 Was well annular space grouted? Yes No Unknown
 If yes, to what depth (feet)? _____ Depth to Water (feet): _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A
 Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A
 Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____
 Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips
 For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards	Sacks	Sealant or Volume (circle one)	Mix Ratio or Mud Weight
CONCRETE	Surface	0.25				
BENTONITE	0.25	15				

6. Comments

1P-1

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Rambold</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>10/28/2020</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>234 W FLORIDA ST.</u>	Telephone Number: () _____	Comments: _____			
City: <u>MILWAUKEE</u>	State: <u>WI</u>	ZIP Code: <u>53204</u>	Signature of Person Doing Work: _____	Date Signed: _____	

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name FORMER ONE HOUR VALET		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name IW-1	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241152248		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 10/08/2020 m m d d y y v v	
Type of Well Well Code _____		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm WESLEY BIVETT REDOR TECH	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation _____ ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **0.25** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

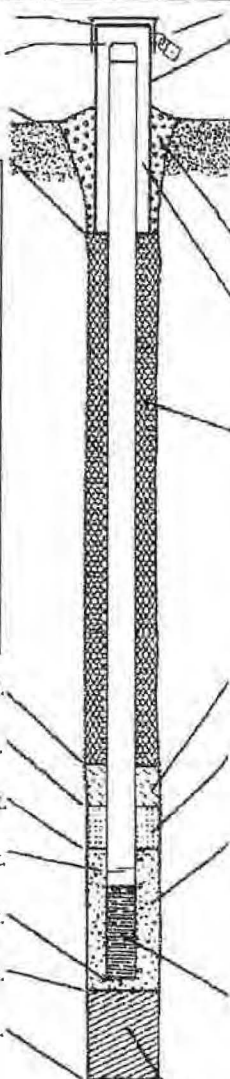
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
DIRECT PUSH Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: _____ ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other
- 5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight Bentonite slurry 3 1
 d. _____ % Bentonite Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 a. _____
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. **PREPACK**
 b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: **PVC**
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer _____
 c. Slot size: **0.010** in.
 d. Slotted length: **5** ft.
- 11. Backfill material (below filter pack): None 1 4
 Other

- E. Bentonite seal, top _____ ft. MSL or **0.25** ft.
- F. Fine sand, top _____ ft. MSL or _____ ft.
- G. Filter pack, top _____ ft. MSL or **10** ft.
- H. Screen joint, top _____ ft. MSL or **10** ft.
- I. Well bottom _____ ft. MSL or **15** ft.
- J. Filter pack, bottom _____ ft. MSL or **15** ft.
- K. Borehole, bottom _____ ft. MSL or **15** ft.
- L. Borehole, diameter **4** in.
- M. O.D. well casing **1.70** in.
- N. I.D. well casing **1.03** in.

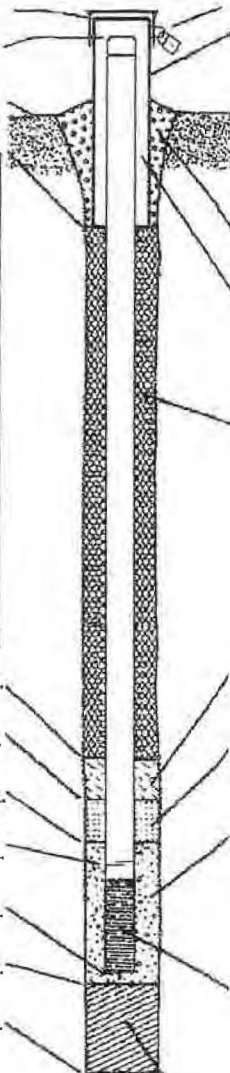
I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *Wesley Bivett* Firm **RAMBOLL**

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.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name FORMER ONE HOUR VALET		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name 1W-2	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241152248		St. Plane ft. N. ft. E. S/C/N		Date Well Installed 10/08/2020 m m d d y y y y	
Type of Well Well Code /		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH	
Distance from Waste/Source ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

A. Protective pipe, top elevation ----- ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation ----- ft. MSL	2. Protective cover pipe:
C. Land surface elevation ----- ft. MSL	a. Inside diameter: ----- in.
D. Surface seal, bottom ----- ft. MSL or 0.25 ft.	b. Length: ----- ft.
	c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> OW <input 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"/>	3. Surface seal: Bentonite <input type="checkbox"/> 3.0 Concrete <input checked="" type="checkbox"/> 0.1 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3.0 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input type="checkbox"/> 4.1 DIRECT PUSH Other <input checked="" type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3.5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3.1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3.3 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"/> 3.2 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
17. Source of water (attach analysis, if required):	8. Filter pack material: Manufacturer, product name & mesh size a. PREPACK b. Volume added _____ ft ³
E. Bentonite seal, top ----- ft. MSL or 0.75 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
F. Fine sand, top ----- ft. MSL or ----- ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
G. Filter pack, top ----- ft. MSL or 10 ft.	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 5 ft.
H. Screen joint, top ----- ft. MSL or 10 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/>
I. Well bottom ----- ft. MSL or 15 ft.	
J. Filter pack, bottom ----- ft. MSL or 15 ft.	
K. Borehole, bottom ----- ft. MSL or 15 ft.	
L. Borehole, diameter 4 in.	
M. O.D. well casing 1.70 in.	
N. I.D. well casing 1.03 in.	



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

Signature **Overlupel** Firm **RAMBOLL**

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.

Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name FORMER ONE HOUR VALET		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name 1W-3	
Facility License, Permit or Monitoring No. 241152248		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241152248		St. Plane ft. N. <input type="checkbox"/> ft. E. <input type="checkbox"/> S/C/N		Date Well Installed 09/02/2020 m m d d y y y y	
Type of Well Well Code 1		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH	
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

- A. Protective pipe, top elevation ----- ft. MSL
- B. Well casing, top elevation ----- ft. MSL
- C. Land surface elevation ----- ft. MSL
- D. Surface seal, bottom ----- ft. MSL or **0.25** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis performed? Yes No

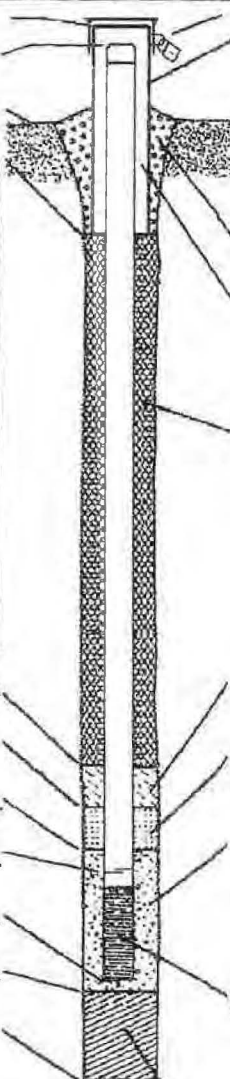
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
DIRECT PUSH Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: _____ ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 - d. _____ % Bentonite ... Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
a. **PREPACK**
b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer _____
 - c. Slot size: **0.010** in.
 - d. Slotted length: **10** ft.
- 11. Backfill material (below filter pack): None 14
Other

- E. Bentonite seal, top ----- ft. MSL or **0.25** ft.
- F. Fine sand, top ----- ft. MSL or _____ ft.
- G. Filter pack, top ----- ft. MSL or **25** ft.
- H. Screen joint, top ----- ft. MSL or **25** ft.
- I. Well bottom ----- ft. MSL or **35** ft.
- J. Filter pack, bottom ----- ft. MSL or **35** ft.
- K. Borehole, bottom ----- ft. MSL or **35** ft.
- L. Borehole, diameter **4** in.
- M. O.D. well casing **1.70** in.
- N. I.D. well casing **1.03** in.

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

Signature **[Signature]** Firm **RAMBOLL**

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 FORMER ONE HOUR VAULT		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name 1W-4	
Facility License, Permit or Monitoring No. 241152248		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed 09/02/2020 m m d d y y y y	
Type of Well Well Code 1		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH	
Distance from Waste/Source 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 type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

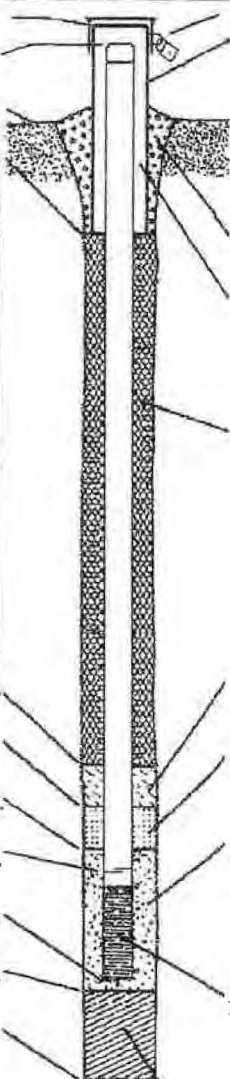
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	8 in.
D. Surface seal, bottom	ft. MSL or 0.25 ft.	b. Length:	1 ft.
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 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"/>		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 DIRECT PUSH Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
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		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. Ft ³ volume added for any of the above
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
17. Source of water (attach analysis, if required):		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"/>
E. Bentonite seal, top	ft. MSL or 0.25 ft.	7. Fine sand material: Manufacturer, product name & mesh size	
F. Fine sand, top	ft. MSL or — ft.	a. PREPACK	
G. Filter pack, top	ft. MSL or 25 ft.	b. Volume added — ft ³	
H. Screen joint, top	ft. MSL or 25 ft.	8. Filter pack material: Manufacturer, product name & mesh size	
I. Well bottom	ft. MSL or 35 ft.	a. PREPACK	
J. Filter pack, bottom	ft. MSL or 35 ft.	b. Volume added — ft ³	
K. Borehole, bottom	ft. MSL or 35 ft.	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"/>
L. Borehole, diameter	4 in.	10. Screen material: PVC	
M. O.D. well casing	1.70 in.	a. Screen type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
N. I.D. well casing	1.03 in.	b. Manufacturer	
		c. Slot size:	0.010 in.
		d. Slotted length:	10 ft.
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *Daniel Gabriel* Firm **RAMBOLL**

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 FORMER ONE HOUR VAULT		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name 1W-5	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241152248		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 01/02/2020 m m d d y y v v	
Type of Well Well Code _____ / _____		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH	
Distance from Waste/Source _____ 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 type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 0.25 ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
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 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"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 DIRECT PUSH Other <input checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
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	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. _____ Ft ³ volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Describe _____	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"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
E. Bentonite seal, top _____ ft. MSL or 0.75 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. PREPACK b. Volume added _____ ft ³
F. Fine sand, top _____ ft. MSL or _____ ft.	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"/>
G. Filter pack, top _____ ft. MSL or 25 ft.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or 25 ft.	b. Manufacturer _____
I. Well bottom _____ ft. MSL or 35 ft.	c. Slot size: _____ 0.010 in.
J. Filter pack, bottom _____ ft. MSL or 35 ft.	d. Slotted length: 10 ft.
K. Borehole, bottom _____ ft. MSL or 35 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter 4 in.	
M. O.D. well casing 1.70 in.	
N. I.D. well casing 1.03 in.	



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

Signature *Orin Gabriel* Firm **RAMBOLL**

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name FORMER ONE HOUR VALET		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name IW-6	
Facility License, Permit or Monitoring No. 241152248		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long _____ " or _____ " or _____ "		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID 241152248		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 07/02/2020 m m d d y y y y	
Type of Well Well Code 1		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH	
Distance from Waste/Source _____ 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 type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or 0.25 ft.	c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
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 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"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 DIRECT PUSH Other <input checked="" type="checkbox"/>	
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	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	
17. Source of water (attach analysis, if required): _____	
E. Bentonite seal, top _____ ft. MSL or 0.25 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ ft.	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 20 ft.	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. _____ Ft ³ volume added for any of the above
H. Screen joint, top _____ ft. MSL or 20 ft.	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
I. Well bottom _____ ft. MSL or 35 ft.	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"/>
J. Filter pack, bottom _____ ft. MSL or 35 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
K. Borehole, bottom _____ ft. MSL or 35 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. PREPACK b. Volume added _____ ft ³
L. Borehole, diameter 4 in.	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"/>
M. O.D. well casing 1.70 in.	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
N. I.D. well casing 1.03 in.	b. Manufacturer _____ c. Slot size: _____ 0.010 in. d. Slotted length: 15 ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature *Overgabel* Firm **RAMROLL**

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.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name FORMER ONE HOUR VAULT	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name IW-7
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. _____ Long. _____ or	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 24LL52248	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 09/01/2020 m m d d y y y y
Type of Well Well Code 1	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDOX TECH
Distance from Waste/Source _____ 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 type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation _____ ft. MSL
- D. Surface seal, bottom _____ ft. MSL or **0.25** ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

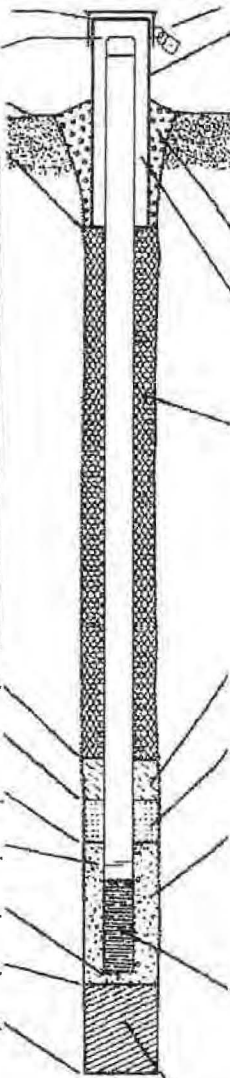
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
DIRECT PUSH Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: **8** in.
 - b. Length: **1** ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 33
 - b. _____ Lbs/gal mud weight Bentonite-sand slurry 35
 - c. _____ Lbs/gal mud weight Bentonite slurry 31
 - d. _____ % Bentonite Bentonite-cement grout 50
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 01
Tremie pumped 02
Gravity 08
- 6. Bentonite seal:
 - a. Bentonite granules 33
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. _____
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. **PREPACK**
 - b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: **PVC**
 - a. Screen type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer _____
 - c. Slot size: **0.010** in.
 - d. Slotted length: **15** ft.
- 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or **0.25** ft.
- F. Fine sand, top _____ ft. MSL or _____ ft.
- G. Filter pack, top _____ ft. MSL or **20** ft.
- H. Screen joint, top _____ ft. MSL or **20** ft.
- I. Well bottom _____ ft. MSL or **35** ft.
- J. Filter pack, bottom _____ ft. MSL or **35** ft.
- K. Borehole, bottom _____ ft. MSL or **35** ft.
- L. Borehole, diameter **4** in.
- M. O.D. well casing **1.70** in.
- N. I.D. well casing **1.03** in.

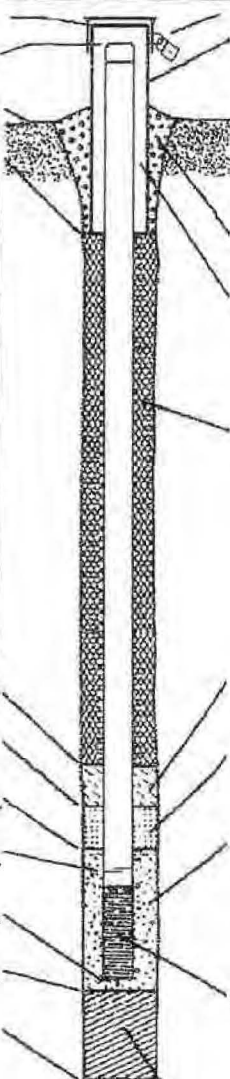
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **[Signature]** Firm **RAMBOLL**

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 FORMER ONE HOUR VAULT		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name 1W-8	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID 241152248		St. Plane ft. N. ft. E. S/C/N		Date Well Installed 01/01/2020 m m d d y y v v y	
Type of Well Well Code /		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm WESLEY RIVETT REDON TECH	
Distance from Waste/Source 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 type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	

A. Protective pipe, top elevation	----- ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	----- ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	----- ft. MSL	a. Inside diameter:	<u>8</u> in.
D. Surface seal, bottom	----- ft. MSL or <u>0.25</u> ft.	b. Length:	----- ft.
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 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"/> 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input type="checkbox"/> 50 <u>DIRECT PUSH</u> Hollow Stem Auger <input type="checkbox"/> 41 Other <input checked="" type="checkbox"/> <input type="checkbox"/> 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 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ 17. Source of water (attach analysis, if required): _____		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> <input type="checkbox"/>
		d. Additional protection? If yes, describe: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/> <input type="checkbox"/>
		4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> <input type="checkbox"/>
E. Bentonite seal, top	----- ft. MSL or <u>0.25</u> ft.	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. _____ Ft ³ 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
F. Fine sand, top	----- ft. MSL or _____ ft.	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"/> <input type="checkbox"/>
G. Filter pack, top	----- ft. MSL or <u>20</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size	a. _____ b. Volume added _____ ft ³
H. Screen joint, top	----- ft. MSL or <u>20</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>PREPACK</u> b. Volume added _____ ft ³
I. Well bottom	----- ft. MSL or <u>35</u> ft.	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"/> <input type="checkbox"/>
J. Filter pack, bottom	----- ft. MSL or <u>35</u> ft.	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"/> <input type="checkbox"/>
K. Borehole, bottom	----- ft. MSL or <u>35</u> ft.	b. Manufacturer _____	c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15</u> ft.
L. Borehole, diameter	<u>4</u> in.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> <input type="checkbox"/>
M. O.D. well casing	<u>1.70</u> in.		
N. I.D. well casing	<u>1.03</u> in.		



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature [Signature] Firm RAMBOLL

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APPENDIX B
GROUNDWATER MONITORING PROGRAM
LABORATORY ANALYTICAL REPORTS

November 05, 2020

Susan Petrofske
Ramboll Environ
175 North Corporate Drive
Suite 160
Brookfield, WI 53045

RE: Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Dear Susan Petrofske:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Green Bay

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

Sincerely,



Steven Mieczko
steve.mieczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40217406001	PZ-2R	Water	10/28/20 09:08	10/29/20 10:20
40217406002	MW-6	Water	10/28/20 10:02	10/29/20 10:20
40217406003	MW-6 DUP	Water	10/28/20 10:02	10/29/20 10:20
40217406004	PZ-4	Water	10/28/20 10:48	10/29/20 10:20
40217406005	MW-5	Water	10/28/20 11:22	10/29/20 10:20
40217406006	MW-4	Water	10/28/20 12:12	10/29/20 10:20
40217406007	PZ-1R	Water	10/28/20 12:54	10/29/20 10:20
40217406008	TRIP BLANK	Water	10/28/20 00:00	10/29/20 10:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40217406001	PZ-2R	EPA 8260	LAP	65	PASI-G
40217406002	MW-6	EPA 8260	LAP	65	PASI-G
40217406003	MW-6 DUP	EPA 8260	LAP	65	PASI-G
40217406004	PZ-4	EPA 8260	LAP	65	PASI-G
40217406005	MW-5	EPA 8260	LAP	65	PASI-G
40217406006	MW-4	EPA 8260	LAP	65	PASI-G
40217406007	PZ-1R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	65	PASI-G
		SM 3500-Fe B	KLS	1	PAN
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40217406008	TRIP BLANK	EPA 8260	LAP	65	PASI-G

PAN = Pace National - Mt. Juliet

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40217406001	PZ-2R					
EPA 8260	cis-1,2-Dichloroethene	90.2	ug/L	1.0	11/04/20 12:55	
EPA 8260	trans-1,2-Dichloroethene	1.1J	ug/L	1.5	11/04/20 12:55	
EPA 8260	Vinyl chloride	10.8	ug/L	1.0	11/04/20 12:55	
40217406002	MW-6					
EPA 8260	cis-1,2-Dichloroethene	172	ug/L	1.0	11/04/20 13:15	
EPA 8260	trans-1,2-Dichloroethene	5.4	ug/L	1.5	11/04/20 13:15	
EPA 8260	Trichloroethene	15.6	ug/L	1.0	11/04/20 13:15	
EPA 8260	Vinyl chloride	8.4	ug/L	1.0	11/04/20 13:15	
40217406003	MW-6 DUP					
EPA 8260	cis-1,2-Dichloroethene	181	ug/L	1.0	11/04/20 13:34	
EPA 8260	trans-1,2-Dichloroethene	5.2	ug/L	1.5	11/04/20 13:34	
EPA 8260	Trichloroethene	15.9	ug/L	1.0	11/04/20 13:34	
EPA 8260	Vinyl chloride	8.4	ug/L	1.0	11/04/20 13:34	
40217406004	PZ-4					
EPA 8260	cis-1,2-Dichloroethene	0.42J	ug/L	1.0	11/05/20 00:12	
EPA 8260	Tetrachloroethene	23.5	ug/L	1.1	11/05/20 00:12	
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	11/05/20 00:12	
40217406005	MW-5					
EPA 8260	cis-1,2-Dichloroethene	11.3	ug/L	1.0	11/04/20 14:13	
EPA 8260	trans-1,2-Dichloroethene	0.72J	ug/L	1.5	11/04/20 14:13	
EPA 8260	Tetrachloroethene	21.7	ug/L	1.1	11/04/20 14:13	
EPA 8260	Trichloroethene	5.2	ug/L	1.0	11/04/20 14:13	
EPA 8260	Vinyl chloride	1.5	ug/L	1.0	11/04/20 14:13	
40217406006	MW-4					
EPA 8260	Tetrachloroethene	24.0	ug/L	1.1	11/04/20 22:54	
EPA 8260	Trichloroethene	0.26J	ug/L	1.0	11/04/20 22:54	
40217406007	PZ-1R					
EPA 8015B Modified	Ethane	1560	ug/L	56.0	11/04/20 10:55	
EPA 8015B Modified	Ethene	1320	ug/L	50.0	11/04/20 10:55	
EPA 8015B Modified	Methane	1510	ug/L	28.0	11/04/20 10:55	
EPA 8260	cis-1,2-Dichloroethene	6500	ug/L	500	11/04/20 23:13	
EPA 8260	Tetrachloroethene	28800	ug/L	544	11/04/20 23:13	
EPA 8260	Trichloroethene	2280	ug/L	500	11/04/20 23:13	
EPA 8260	Vinyl chloride	822	ug/L	500	11/04/20 23:13	
SM 3500-Fe B	Iron, Ferrous	168000	ug/L	5000	11/05/20 10:54	C4,H3
EPA 300.0	Sulfate	4.9J	mg/L	10.0	11/04/20 14:15	D3
SM 5310C	Total Organic Carbon	2440	mg/L	50.0	10/30/20 01:14	
40217406008	TRIP BLANK					
EPA 8260	Methylene Chloride	0.88J	ug/L	5.0	11/04/20 08:42	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: PZ-2R **Lab ID: 40217406001** Collected: 10/28/20 09:08 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 12:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 12:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 12:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 12:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 12:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 12:55	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 12:55	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 12:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 12:55	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 12:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 12:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 12:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 12:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 12:55	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 12:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 12:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 12:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 12:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 12:55	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 12:55	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 12:55	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 12:55	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 12:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 12:55	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 12:55	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 12:55	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 12:55	75-35-4	
cis-1,2-Dichloroethene	90.2	ug/L	1.0	0.27	1		11/04/20 12:55	156-59-2	
trans-1,2-Dichloroethene	1.1J	ug/L	1.5	0.46	1		11/04/20 12:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 12:55	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 12:55	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 12:55	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 12:55	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 12:55	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 12:55	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 12:55	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 12:55	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 12:55	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 12:55	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 12:55	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/04/20 12:55	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 12:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 12:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 12:55	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 12:55	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: PZ-2R **Lab ID: 40217406001** Collected: 10/28/20 09:08 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 12:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 12:55	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/04/20 12:55	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 12:55	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 12:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 12:55	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 12:55	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 12:55	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/04/20 12:55	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 12:55	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 12:55	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/04/20 12:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 12:55	108-67-8	
Vinyl chloride	10.8	ug/L	1.0	0.17	1		11/04/20 12:55	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 12:55	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 12:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 12:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/04/20 12:55	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/04/20 12:55	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		11/04/20 12:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-6 **Lab ID: 40217406002** Collected: 10/28/20 10:02 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 13:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 13:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 13:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 13:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 13:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 13:15	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:15	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 13:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 13:15	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 13:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 13:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 13:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 13:15	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 13:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 13:15	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 13:15	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 13:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 13:15	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 13:15	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:15	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 13:15	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 13:15	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 13:15	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 13:15	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:15	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 13:15	75-35-4	
cis-1,2-Dichloroethene	172	ug/L	1.0	0.27	1		11/04/20 13:15	156-59-2	
trans-1,2-Dichloroethene	5.4	ug/L	1.5	0.46	1		11/04/20 13:15	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:15	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 13:15	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 13:15	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 13:15	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 13:15	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 13:15	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 13:15	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 13:15	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 13:15	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 13:15	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 13:15	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/04/20 13:15	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 13:15	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 13:15	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 13:15	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 13:15	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-6 **Lab ID: 40217406002** Collected: 10/28/20 10:02 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 13:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:15	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/04/20 13:15	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 13:15	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 13:15	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 13:15	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 13:15	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 13:15	79-00-5	
Trichloroethene	15.6	ug/L	1.0	0.26	1		11/04/20 13:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 13:15	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 13:15	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/04/20 13:15	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 13:15	108-67-8	
Vinyl chloride	8.4	ug/L	1.0	0.17	1		11/04/20 13:15	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 13:15	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 13:15	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 13:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/04/20 13:15	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		11/04/20 13:15	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		11/04/20 13:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-6 DUP **Lab ID: 40217406003** Collected: 10/28/20 10:02 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 13:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 13:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 13:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 13:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 13:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 13:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 13:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 13:34	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 13:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 13:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 13:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 13:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 13:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 13:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 13:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 13:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 13:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 13:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 13:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 13:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 13:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 13:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 13:34	75-35-4	
cis-1,2-Dichloroethene	181	ug/L	1.0	0.27	1		11/04/20 13:34	156-59-2	
trans-1,2-Dichloroethene	5.2	ug/L	1.5	0.46	1		11/04/20 13:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 13:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 13:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 13:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 13:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 13:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 13:34	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 13:34	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 13:34	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 13:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 13:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/04/20 13:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 13:34	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 13:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 13:34	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 13:34	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Sample: MW-6 DUP **Lab ID: 40217406003** Collected: 10/28/20 10:02 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 13:34	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 13:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/04/20 13:34	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 13:34	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 13:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 13:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 13:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 13:34	79-00-5	
Trichloroethene	15.9	ug/L	1.0	0.26	1		11/04/20 13:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 13:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 13:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/04/20 13:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 13:34	108-67-8	
Vinyl chloride	8.4	ug/L	1.0	0.17	1		11/04/20 13:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 13:34	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 13:34	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 13:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/04/20 13:34	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		11/04/20 13:34	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		11/04/20 13:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: PZ-4 **Lab ID: 40217406004** Collected: 10/28/20 10:48 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/05/20 00:12	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/05/20 00:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/05/20 00:12	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/05/20 00:12	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/05/20 00:12	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/05/20 00:12	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/05/20 00:12	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/05/20 00:12	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/05/20 00:12	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/05/20 00:12	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/05/20 00:12	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/05/20 00:12	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/05/20 00:12	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/05/20 00:12	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/05/20 00:12	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/05/20 00:12	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/05/20 00:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/05/20 00:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/05/20 00:12	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/05/20 00:12	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/05/20 00:12	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/05/20 00:12	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/05/20 00:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/05/20 00:12	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/05/20 00:12	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/05/20 00:12	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/05/20 00:12	75-35-4	
cis-1,2-Dichloroethene	0.42J	ug/L	1.0	0.27	1		11/05/20 00:12	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/05/20 00:12	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/05/20 00:12	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/05/20 00:12	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/05/20 00:12	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/05/20 00:12	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/05/20 00:12	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/05/20 00:12	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/05/20 00:12	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/05/20 00:12	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/05/20 00:12	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/05/20 00:12	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/05/20 00:12	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/05/20 00:12	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/05/20 00:12	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/05/20 00:12	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/05/20 00:12	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/05/20 00:12	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: PZ-4 **Lab ID: 40217406004** Collected: 10/28/20 10:48 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/05/20 00:12	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/05/20 00:12	79-34-5	
Tetrachloroethene	23.5	ug/L	1.1	0.33	1		11/05/20 00:12	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/05/20 00:12	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/05/20 00:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/05/20 00:12	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/05/20 00:12	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/05/20 00:12	79-00-5	
Trichloroethene	0.37J	ug/L	1.0	0.26	1		11/05/20 00:12	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/05/20 00:12	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/05/20 00:12	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/05/20 00:12	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/05/20 00:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/05/20 00:12	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/05/20 00:12	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/05/20 00:12	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/05/20 00:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/05/20 00:12	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/05/20 00:12	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		11/05/20 00:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-5 Lab ID: 40217406005 Collected: 10/28/20 11:22 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 14:13	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 14:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 14:13	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 14:13	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 14:13	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 14:13	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 14:13	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 14:13	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 14:13	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 14:13	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 14:13	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 14:13	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 14:13	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 14:13	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 14:13	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 14:13	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 14:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 14:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 14:13	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 14:13	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 14:13	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 14:13	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 14:13	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 14:13	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 14:13	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 14:13	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 14:13	75-35-4	
cis-1,2-Dichloroethene	11.3	ug/L	1.0	0.27	1		11/04/20 14:13	156-59-2	
trans-1,2-Dichloroethene	0.72J	ug/L	1.5	0.46	1		11/04/20 14:13	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 14:13	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 14:13	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 14:13	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 14:13	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 14:13	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 14:13	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 14:13	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 14:13	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 14:13	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 14:13	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 14:13	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/04/20 14:13	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 14:13	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 14:13	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 14:13	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 14:13	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-5 **Lab ID: 40217406005** Collected: 10/28/20 11:22 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 14:13	79-34-5	
Tetrachloroethene	21.7	ug/L	1.1	0.33	1		11/04/20 14:13	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 14:13	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 14:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 14:13	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 14:13	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 14:13	79-00-5	
Trichloroethene	5.2	ug/L	1.0	0.26	1		11/04/20 14:13	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 14:13	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 14:13	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/04/20 14:13	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 14:13	108-67-8	
Vinyl chloride	1.5	ug/L	1.0	0.17	1		11/04/20 14:13	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 14:13	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 14:13	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 14:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/04/20 14:13	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		11/04/20 14:13	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		11/04/20 14:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-4 **Lab ID: 40217406006** Collected: 10/28/20 12:12 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 22:54	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 22:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 22:54	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 22:54	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 22:54	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 22:54	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 22:54	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 22:54	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 22:54	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 22:54	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 22:54	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 22:54	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 22:54	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 22:54	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 22:54	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 22:54	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 22:54	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 22:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 22:54	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 22:54	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 22:54	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 22:54	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 22:54	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 22:54	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 22:54	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 22:54	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 22:54	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/04/20 22:54	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/04/20 22:54	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 22:54	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 22:54	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 22:54	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 22:54	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 22:54	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 22:54	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 22:54	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 22:54	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 22:54	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 22:54	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 22:54	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/04/20 22:54	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 22:54	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 22:54	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 22:54	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 22:54	100-42-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: MW-4 **Lab ID: 40217406006** Collected: 10/28/20 12:12 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 22:54	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 22:54	79-34-5	
Tetrachloroethene	24.0	ug/L	1.1	0.33	1		11/04/20 22:54	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 22:54	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 22:54	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 22:54	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 22:54	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 22:54	79-00-5	
Trichloroethene	0.26J	ug/L	1.0	0.26	1		11/04/20 22:54	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 22:54	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 22:54	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/05/20 07:16	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 22:54	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/20 22:54	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 22:54	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 22:54	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 22:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/04/20 22:54	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		11/04/20 22:54	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/04/20 22:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: PZ-1R **Lab ID: 40217406007** Collected: 10/28/20 12:54 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	1560	ug/L	56.0	12.2	10		11/04/20 10:55	74-84-0	
Ethene	1320	ug/L	50.0	12.0	10		11/04/20 10:55	74-85-1	
Methane	1510	ug/L	28.0	6.6	10		11/04/20 10:55	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<123	ug/L	500	123	500		11/04/20 23:13	71-43-2	
Bromobenzene	<121	ug/L	500	121	500		11/04/20 23:13	108-86-1	
Bromochloromethane	<181	ug/L	2500	181	500		11/04/20 23:13	74-97-5	
Bromodichloromethane	<182	ug/L	606	182	500		11/04/20 23:13	75-27-4	
Bromoform	<1990	ug/L	6620	1990	500		11/04/20 23:13	75-25-2	
Bromomethane	<486	ug/L	2500	486	500		11/04/20 23:13	74-83-9	
n-Butylbenzene	<354	ug/L	1180	354	500		11/04/20 23:13	104-51-8	
sec-Butylbenzene	<424	ug/L	2500	424	500		11/04/20 23:13	135-98-8	
tert-Butylbenzene	<152	ug/L	506	152	500		11/04/20 23:13	98-06-6	
Carbon tetrachloride	<538	ug/L	1790	538	500		11/04/20 23:13	56-23-5	
Chlorobenzene	<355	ug/L	1180	355	500		11/04/20 23:13	108-90-7	
Chloroethane	<671	ug/L	2500	671	500		11/04/20 23:13	75-00-3	
Chloroform	<637	ug/L	2500	637	500		11/04/20 23:13	67-66-3	
Chloromethane	<1090	ug/L	3650	1090	500		11/04/20 23:13	74-87-3	
2-Chlorotoluene	<463	ug/L	2500	463	500		11/04/20 23:13	95-49-8	
4-Chlorotoluene	<378	ug/L	1260	378	500		11/04/20 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	<882	ug/L	2940	882	500		11/04/20 23:13	96-12-8	
Dibromochloromethane	<1300	ug/L	4340	1300	500		11/04/20 23:13	124-48-1	
1,2-Dibromoethane (EDB)	<415	ug/L	1380	415	500		11/04/20 23:13	106-93-4	
Dibromomethane	<468	ug/L	1560	468	500		11/04/20 23:13	74-95-3	
1,2-Dichlorobenzene	<353	ug/L	1180	353	500		11/04/20 23:13	95-50-1	
1,3-Dichlorobenzene	<314	ug/L	1050	314	500		11/04/20 23:13	541-73-1	
1,4-Dichlorobenzene	<472	ug/L	1570	472	500		11/04/20 23:13	106-46-7	
Dichlorodifluoromethane	<250	ug/L	2500	250	500		11/04/20 23:13	75-71-8	
1,1-Dichloroethane	<136	ug/L	500	136	500		11/04/20 23:13	75-34-3	
1,2-Dichloroethane	<140	ug/L	500	140	500		11/04/20 23:13	107-06-2	
1,1-Dichloroethene	<122	ug/L	500	122	500		11/04/20 23:13	75-35-4	
cis-1,2-Dichloroethene	6500	ug/L	500	136	500		11/04/20 23:13	156-59-2	
trans-1,2-Dichloroethene	<232	ug/L	774	232	500		11/04/20 23:13	156-60-5	
1,2-Dichloropropane	<141	ug/L	500	141	500		11/04/20 23:13	78-87-5	
1,3-Dichloropropane	<413	ug/L	1380	413	500		11/04/20 23:13	142-28-9	
2,2-Dichloropropane	<1130	ug/L	3780	1130	500		11/04/20 23:13	594-20-7	
1,1-Dichloropropene	<270	ug/L	900	270	500		11/04/20 23:13	563-58-6	
cis-1,3-Dichloropropene	<1810	ug/L	6050	1810	500		11/04/20 23:13	10061-01-5	
trans-1,3-Dichloropropene	<2190	ug/L	7280	2190	500		11/04/20 23:13	10061-02-6	
Diisopropyl ether	<944	ug/L	3150	944	500		11/04/20 23:13	108-20-3	
Ethylbenzene	<159	ug/L	531	159	500		11/04/20 23:13	100-41-4	
Hexachloro-1,3-butadiene	<731	ug/L	2440	731	500		11/04/20 23:13	87-68-3	
Isopropylbenzene (Cumene)	<843	ug/L	2810	843	500		11/04/20 23:13	98-82-8	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Sample: PZ-1R **Lab ID: 40217406007** Collected: 10/28/20 12:54 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<400	ug/L	1330	400	500		11/04/20 23:13	99-87-6	
Methylene Chloride	<290	ug/L	2500	290	500		11/04/20 23:13	75-09-2	
Methyl-tert-butyl ether	<623	ug/L	2080	623	500		11/04/20 23:13	1634-04-4	
Naphthalene	<588	ug/L	2500	588	500		11/04/20 23:13	91-20-3	
n-Propylbenzene	<405	ug/L	2500	405	500		11/04/20 23:13	103-65-1	
Styrene	<1500	ug/L	5020	1500	500		11/04/20 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	<135	ug/L	500	135	500		11/04/20 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	<138	ug/L	500	138	500		11/04/20 23:13	79-34-5	
Tetrachloroethene	28800	ug/L	544	163	500		11/04/20 23:13	127-18-4	
Toluene	<135	ug/L	500	135	500		11/04/20 23:13	108-88-3	
1,2,3-Trichlorobenzene	<1110	ug/L	3680	1110	500		11/04/20 23:13	87-61-6	
1,2,4-Trichlorobenzene	<476	ug/L	2500	476	500		11/04/20 23:13	120-82-1	
1,1,1-Trichloroethane	<122	ug/L	500	122	500		11/04/20 23:13	71-55-6	
1,1,2-Trichloroethane	<276	ug/L	2500	276	500		11/04/20 23:13	79-00-5	
Trichloroethene	2280	ug/L	500	128	500		11/04/20 23:13	79-01-6	
Trichlorofluoromethane	<107	ug/L	500	107	500		11/04/20 23:13	75-69-4	
1,2,3-Trichloropropane	<295	ug/L	2500	295	500		11/04/20 23:13	96-18-4	
1,2,4-Trimethylbenzene	<420	ug/L	1400	420	500		11/04/20 23:13	95-63-6	
1,3,5-Trimethylbenzene	<437	ug/L	1460	437	500		11/04/20 23:13	108-67-8	
Vinyl chloride	822	ug/L	500	87.3	500		11/04/20 23:13	75-01-4	
Xylene (Total)	<750	ug/L	1500	750	500		11/04/20 23:13	1330-20-7	
m&p-Xylene	<233	ug/L	1000	233	500		11/04/20 23:13	179601-23-1	
o-Xylene	<131	ug/L	500	131	500		11/04/20 23:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		500		11/04/20 23:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		500		11/04/20 23:13	1868-53-7	
Toluene-d8 (S)	96	%	70-130		500		11/04/20 23:13	2037-26-5	
Wet Chemistry 3500Fe B-2011									
Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011									
Pace National - Mt. Juliet									
Iron, Ferrous	168000	ug/L	5000	1500	100	11/05/20 10:54	11/05/20 10:54		C4,H3
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	4.9J	mg/L	10.0	2.2	5		11/04/20 14:15	14808-79-8	D3
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	2440	mg/L	50.0	13.8	100		10/30/20 01:14	7440-44-0	

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

Sample: TRIP BLANK **Lab ID: 40217406008** Collected: 10/28/20 00:00 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		11/04/20 08:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/04/20 08:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/04/20 08:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/04/20 08:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/04/20 08:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/04/20 08:42	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 08:42	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/04/20 08:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/04/20 08:42	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/04/20 08:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 08:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/04/20 08:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/04/20 08:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/04/20 08:42	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/04/20 08:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/04/20 08:42	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/04/20 08:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/04/20 08:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/04/20 08:42	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/04/20 08:42	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/04/20 08:42	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/04/20 08:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/04/20 08:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/04/20 08:42	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 08:42	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 08:42	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/04/20 08:42	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/04/20 08:42	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/04/20 08:42	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/04/20 08:42	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/04/20 08:42	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/04/20 08:42	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/04/20 08:42	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/04/20 08:42	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/04/20 08:42	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/04/20 08:42	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/04/20 08:42	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/04/20 08:42	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/04/20 08:42	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/04/20 08:42	99-87-6	
Methylene Chloride	0.88J	ug/L	5.0	0.58	1		11/04/20 08:42	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/04/20 08:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/04/20 08:42	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/04/20 08:42	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		11/04/20 08:42	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Sample: TRIP BLANK **Lab ID: 40217406008** Collected: 10/28/20 00:00 Received: 10/29/20 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/04/20 08:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/04/20 08:42	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/04/20 08:42	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/04/20 08:42	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/04/20 08:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/04/20 08:42	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/04/20 08:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/04/20 08:42	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/04/20 08:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/04/20 08:42	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/04/20 08:42	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/04/20 08:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/04/20 08:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/04/20 08:42	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/04/20 08:42	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/04/20 08:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/04/20 08:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/04/20 08:42	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		11/04/20 08:42	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		11/04/20 08:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

QC Batch: 370196	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: 40217406007

METHOD BLANK: 2139960 Matrix: Water
Associated Lab Samples: 40217406007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	11/04/20 07:54	
Ethene	ug/L	<1.2	5.0	11/04/20 07:54	
Methane	ug/L	<0.66	2.8	11/04/20 07:54	

LABORATORY CONTROL SAMPLE & LCSD: 2139961

Parameter	Units	2139962		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
Ethane	ug/L	53.6	55.7	57.1	104	107	80-120	3	20
Ethene	ug/L	50	51.1	52.3	102	105	80-120	2	20
Methane	ug/L	28.6	29.9	30.8	105	108	79-120	3	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2140142 2140143

Parameter	Units	40217203002		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.									
Ethane	ug/L	<1.2	53.6	53.6	54.4	55.9	102	104	79-120	3	20		
Ethene	ug/L	<1.2	50	50	49.7	51.0	99	102	79-120	3	20		
Methane	ug/L	2.2J	28.6	28.6	31.8	32.8	103	107	10-200	3	20		

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

QC Batch:	369892	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40217406001, 40217406002, 40217406003, 40217406004, 40217406005, 40217406006, 40217406007, 40217406008

METHOD BLANK: 2138078 Matrix: Water
Associated Lab Samples: 40217406001, 40217406002, 40217406003, 40217406004, 40217406005, 40217406006, 40217406007, 40217406008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/04/20 06:45	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/04/20 06:45	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/04/20 06:45	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/04/20 06:45	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/04/20 06:45	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/04/20 06:45	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/04/20 06:45	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	11/04/20 06:45	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/04/20 06:45	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/04/20 06:45	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/04/20 06:45	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/04/20 06:45	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/04/20 06:45	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/04/20 06:45	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/04/20 06:45	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/04/20 06:45	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/04/20 06:45	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/04/20 06:45	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/04/20 06:45	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/04/20 06:45	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/04/20 06:45	
2-Chlorotoluene	ug/L	<0.93	5.0	11/04/20 06:45	
4-Chlorotoluene	ug/L	<0.76	2.5	11/04/20 06:45	
Benzene	ug/L	<0.25	1.0	11/04/20 06:45	
Bromobenzene	ug/L	<0.24	1.0	11/04/20 06:45	
Bromochloromethane	ug/L	<0.36	5.0	11/04/20 06:45	
Bromodichloromethane	ug/L	<0.36	1.2	11/04/20 06:45	
Bromoform	ug/L	<4.0	13.2	11/04/20 06:45	
Bromomethane	ug/L	<0.97	5.0	11/04/20 06:45	
Carbon tetrachloride	ug/L	<1.1	3.6	11/04/20 06:45	
Chlorobenzene	ug/L	<0.71	2.4	11/04/20 06:45	
Chloroethane	ug/L	<1.3	5.0	11/04/20 06:45	
Chloroform	ug/L	<1.3	5.0	11/04/20 06:45	
Chloromethane	ug/L	<2.2	7.3	11/04/20 06:45	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/04/20 06:45	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/04/20 06:45	
Dibromochloromethane	ug/L	<2.6	8.7	11/04/20 06:45	
Dibromomethane	ug/L	<0.94	3.1	11/04/20 06:45	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/04/20 06:45	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

METHOD BLANK: 2138078 Matrix: Water
Associated Lab Samples: 40217406001, 40217406002, 40217406003, 40217406004, 40217406005, 40217406006, 40217406007, 40217406008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.9	6.3	11/04/20 06:45	
Ethylbenzene	ug/L	<0.32	1.1	11/04/20 06:45	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	11/04/20 06:45	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	11/04/20 06:45	
m&p-Xylene	ug/L	<0.47	2.0	11/04/20 06:45	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/04/20 06:45	
Methylene Chloride	ug/L	<0.58	5.0	11/04/20 06:45	
n-Butylbenzene	ug/L	<0.71	2.4	11/04/20 06:45	
n-Propylbenzene	ug/L	<0.81	5.0	11/04/20 06:45	
Naphthalene	ug/L	<1.2	5.0	11/04/20 06:45	
o-Xylene	ug/L	<0.26	1.0	11/04/20 06:45	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/04/20 06:45	
sec-Butylbenzene	ug/L	<0.85	5.0	11/04/20 06:45	
Styrene	ug/L	<3.0	10.0	11/04/20 06:45	
tert-Butylbenzene	ug/L	<0.30	1.0	11/04/20 06:45	
Tetrachloroethene	ug/L	<0.33	1.1	11/04/20 06:45	
Toluene	ug/L	<0.27	1.0	11/04/20 06:45	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	11/04/20 06:45	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/04/20 06:45	
Trichloroethene	ug/L	<0.26	1.0	11/04/20 06:45	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/04/20 06:45	
Vinyl chloride	ug/L	<0.17	1.0	11/04/20 06:45	
Xylene (Total)	ug/L	<1.5	3.0	11/04/20 06:45	
4-Bromofluorobenzene (S)	%	89	70-130	11/04/20 06:45	
Dibromofluoromethane (S)	%	105	70-130	11/04/20 06:45	
Toluene-d8 (S)	%	94	70-130	11/04/20 06:45	

LABORATORY CONTROL SAMPLE: 2138079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	64-131	
1,1,2-Trichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethane	ug/L	50	45.1	90	69-163	
1,1-Dichloroethene	ug/L	50	46.9	94	77-123	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.1	82	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	96	70-130	
1,2-Dichlorobenzene	ug/L	50	53.3	107	70-130	
1,2-Dichloroethane	ug/L	50	46.2	92	78-142	
1,2-Dichloropropane	ug/L	50	44.5	89	86-134	
1,3-Dichlorobenzene	ug/L	50	56.4	113	70-130	
1,4-Dichlorobenzene	ug/L	50	50.9	102	70-130	

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

LABORATORY CONTROL SAMPLE: 2138079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	46.8	94	70-130	
Bromodichloromethane	ug/L	50	47.0	94	70-130	
Bromoform	ug/L	50	45.7	91	70-130	
Bromomethane	ug/L	50	33.0	66	39-129	
Carbon tetrachloride	ug/L	50	54.2	108	70-132	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	37.4	75	66-140	
Chloroform	ug/L	50	48.3	97	75-132	
Chloromethane	ug/L	50	26.8	54	32-143	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	21.3	43	10-141	
Ethylbenzene	ug/L	50	48.6	97	80-120	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	43.3	87	61-129	
Methylene Chloride	ug/L	50	48.4	97	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	51.2	102	70-130	
Toluene	ug/L	50	47.3	95	80-120	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	69-130	
Trichloroethene	ug/L	50	49.9	100	70-130	
Trichlorofluoromethane	ug/L	50	44.0	88	75-145	
Vinyl chloride	ug/L	50	30.6	61	51-140	
Xylene (Total)	ug/L	150	155	103	70-130	
4-Bromofluorobenzene (S)	%			89	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2138117 2138118

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40217358001 Result	Spike Conc.	Spike Conc.	Conc.							
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50	48.3	45.4	97	91	70-130	6	20
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50	43.2	41.8	86	84	64-137	3	20
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50	45.5	44.9	91	90	70-137	1	20
1,1-Dichloroethane	ug/L	<0.27	50	50	50	45.3	43.5	91	87	69-163	4	20
1,1-Dichloroethene	ug/L	<0.24	50	50	50	44.9	43.2	90	86	77-129	4	20
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	46.4	47.4	93	95	68-130	2	20
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50	38.9	40.2	78	80	60-130	3	20
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50	46.6	46.3	93	93	70-130	1	20

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2138117		2138118		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40217358001 Result	MS Spike Conc.	MSD Spike Conc.									
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.6	50.0	101	100	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	43.8	41.3	88	83	78-145	6	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	43.6	42.8	87	86	86-135	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.6	51.9	105	104	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	47.9	47.1	96	94	70-130	2	20		
Benzene	ug/L	<0.25	50	50	45.5	43.9	91	88	70-136	4	20		
Bromodichloromethane	ug/L	<0.36	50	50	44.5	44.4	89	89	70-130	0	20		
Bromoform	ug/L	<4.0	50	50	45.1	43.7	90	87	69-130	3	20		
Bromomethane	ug/L	<0.97	50	50	35.5	37.6	71	75	39-138	6	20		
Carbon tetrachloride	ug/L	<1.1	50	50	52.9	51.7	106	103	70-142	2	20		
Chlorobenzene	ug/L	<0.71	50	50	49.5	49.3	99	99	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	37.2	35.6	74	71	61-149	4	20		
Chloroform	ug/L	<1.3	50	50	47.8	46.3	96	93	75-133	3	20		
Chloromethane	ug/L	<2.2	50	50	26.2	25.0	52	50	32-143	5	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	46.2	44.9	92	90	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.1	43.6	88	87	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.5	48.4	99	97	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	21.2	20.8	42	42	10-141	2	20		
Ethylbenzene	ug/L	<0.32	50	50	47.1	46.3	94	93	80-120	2	20		
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	50.6	49.9	101	100	70-130	1	20		
m&p-Xylene	ug/L	<0.47	100	100	99.0	99.7	99	100	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	42.5	40.8	85	82	61-136	4	20		
Methylene Chloride	ug/L	<0.58	50	50	48.4	47.5	97	95	68-137	2	20		
o-Xylene	ug/L	<0.26	50	50	48.7	49.1	97	98	70-130	1	20		
Styrene	ug/L	<3.0	50	50	49.6	50.2	99	100	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	48.6	49.9	97	100	70-130	3	20		
Toluene	ug/L	<0.27	50	50	46.5	46.5	93	93	80-120	0	20		
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	48.2	47.2	96	94	70-130	2	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.3	41.2	85	82	69-130	3	20		
Trichloroethene	ug/L	<0.26	50	50	47.7	47.2	95	94	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	43.8	40.9	88	82	74-157	7	20		
Vinyl chloride	ug/L	<0.17	50	50	31.0	29.1	62	58	51-140	6	20		
Xylene (Total)	ug/L	<1.5	150	150	148	149	98	99	70-130	1	20		
4-Bromofluorobenzene (S)	%							91	90	70-130			
Dibromofluoromethane (S)	%							101	102	70-130			
Toluene-d8 (S)	%							93	92	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

QC Batch: 1570614 Analysis Method: SM 3500-Fe B
QC Batch Method: 3500Fe B-2011 Analysis Description: Wet Chemistry 3500Fe B-2011
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 40217406007

METHOD BLANK: R3589664-1 Matrix: Water
Associated Lab Samples: 40217406007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	ug/L	<15.0	50.0	11/05/20 09:45	

LABORATORY CONTROL SAMPLE: R3589664-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	ug/L	1000	962	96.2	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3589664-3 R3589664-4

Parameter	Units	L1280206-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	ug/L	ND	1000	1000	985	943	98.5	94.3	80.0-120	4.36	20	

SAMPLE DUPLICATE: R3589664-5

Parameter	Units	L1280206-06 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	ug/L	ND	<15.0	0.00	20	

SAMPLE DUPLICATE: R3589664-6

Parameter	Units	L1280206-14 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	ug/L	ND	<15.0	0.00	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

QC Batch: 370070	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: 40217406007

METHOD BLANK: 2139333 Matrix: Water
Associated Lab Samples: 40217406007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	11/04/20 11:23	

LABORATORY CONTROL SAMPLE: 2139334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139335 2139336

Parameter	Units	2139335		2139336		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40217000001	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Sulfate	mg/L	15.5	100	100	122	119	106	103	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

QC Batch: 369844 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40217406007

METHOD BLANK: 2137891 Matrix: Water

Associated Lab Samples: 40217406007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	10/29/20 17:44	

LABORATORY CONTROL SAMPLE: 2137892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137893 2137894

Parameter	Units	40217233002		2137893		2137894		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Total Organic Carbon	mg/L	2.1	6	6	6	8.3	8.3	103	103	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137895 2137896

Parameter	Units	40217233003		2137895		2137896		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Total Organic Carbon	mg/L	16.0	36	36	36	52.6	53.8	102	105	80-120	2	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1690005819 FMR 1-HR VALET

Pace Project No.: 40217406

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

C4 Sample container did not meet EPA or method requirements.

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690005819 FMR 1-HR VALET
Pace Project No.: 40217406

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40217406007	PZ-1R	EPA 8015B Modified	370196		
40217406001	PZ-2R	EPA 8260	369892		
40217406002	MW-6	EPA 8260	369892		
40217406003	MW-6 DUP	EPA 8260	369892		
40217406004	PZ-4	EPA 8260	369892		
40217406005	MW-5	EPA 8260	369892		
40217406006	MW-4	EPA 8260	369892		
40217406007	PZ-1R	EPA 8260	369892		
40217406008	TRIP BLANK	EPA 8260	369892		
40217406007	PZ-1R	3500Fe B-2011	1570614	SM 3500-Fe B	1570614
40217406007	PZ-1R	EPA 300.0	370070		
40217406007	PZ-1R	SM 5310C	369844		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **RAMBOLL**
 Branch/Location: **BROOKFIELD, WI**
 Project Contact: **SUSAN PETROFSKE**
 Phone: **262-901-3501**
 Project Number: **1690005819**
 Project Name: **FORMER IHR VALLEY**
 Project State: **WISCONSIN**
 Sampled By (Print): **DUNCAN GLASFORD**
 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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	PZ-2R	102820	908	GW
002	MW-6		1062	
003	MW-6 Dup		1002	
004	PZ-4		1048	
005	MW-5		1122	
006	MW-4		1212	
007	PZ-1R		1254	
008	TRIP BLANK			



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1
 40217406
 Page 32 of 34

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

FILTERED? (YES/NO)	PRESERVATION (CODE)*	Y/N	N	N	N	N	N			
		Pick Letter								
		B	B	B	C	A				
		Analyses Requested	VOCS 8260	MEG	Ferrous Fe 3500	TOC 5310	SULFATE			

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: **SUSAN PETROFSKE**
 Invoice To Company: **RAMBOLL**
 Invoice To Address: **175 N CORPORATE DR
 BROOKFIELD, WI 53045**
 Invoice To Phone: **262-901-3501**

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

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

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

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

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

Relinquished By: *[Signature]* Date/Time: **10/28/2020 1430**
 Relinquished By: *[Signature]* Date/Time: **10/29/20 1020**
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: *[Signature]* Date/Time: _____
 Received By: *[Signature]* Date/Time: **10/29/20 1020**
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. **40217406**
 Receipt Temp = **RST** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact **Intact**

Sample Preservation Receipt Form

Client Name: Ramboll

Project # 40217406

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

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

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	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
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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

*10/29/20
W/P*

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: Ramboll

Project #: _____

WO# : 40217406



40217406

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 2526 102820

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- NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: LoI /Corr: _____

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: 10/24/20 Initials: SRK
 Labeled By Initials: SRK

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Mail info.</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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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>N/A</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

APPENDIX C

WASTE DISPOSAL DOCUMENTATION



Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number W I D O 5 3 6 8 4 4 7 8	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 001971557 VES					
5. Generator's Name and Mailing Address MARQUETTE UNIVERSITY ACADEMIC SUPPORT FACILITY 110 P.O. BOX 1881 MILWAUKEE, WI 53201 Generator's Phone 414 229-2411				Generator's Site Address (if different than mailing address) 1214 WEST WELLS STREET MILWAUKEE, WI 53233						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS					U.S. EPA ID Number N J D 0 8 6 6 - 4 6 9					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY MENOMONEE FALLS, WI 53051					U.S. EPA ID Number					
Facility's Phone: 262 255-6655					W I D O 5 3 9 6 7 1 4 8					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol	13. Waste Codes		
	X	1. NAUSEA HAZARDOUS WASTE LIQUID, n.o.s., (TETRACHLOROETHYLENE), 9, III, RQ (P002)		1	DM	75	P	P002		
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information A.C.W.D.T.W.L.I.Q. ER Service Contracted by VESTS 4-WIS-0036190 1) EPC 171 W 130475										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name Dennis Daye					Signature <i>[Signature]</i>			Month Day Year 10/30/13		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit Date leaving U.S.									
	17. Transporter Acknowledgment of Receipt of Materials									
TRANSPORTER	Transporter 1 Printed/Typed Name Mitchell Sussar					Signature <i>[Signature]</i>			Month Day Year 10/30/13	
	Transporter 2 Printed/Typed Name					Signature			Month Day Year	
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)							Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1		2		3		4				
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name					Signature			Month Day Year		