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17975 West Sarah Lane
Suite 100
Brookfield, WI 53045
T: 262.754.2560
F: 262.923.7758
www.gza.com

August 24, 2020
File No. 20.0156045.01

Mr. Timothy Alessi, NR Region Program Manager
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: Supplemental Site Investigation Work Plan
Leather-Rich Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin
BRRTS No. 02-68-581237
VPLE No. 06-68-582959
FID No. 268414850

Dear Mr. Alessi:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Leather-Rich Inc. (LRI/"Client"), is pleased to submit this Supplemental Site Investigation Work Plan ("Work Plan") for the LRI facility located at 1250 Corporate Center Drive in the City of Oconomowoc, Wisconsin ("Site"). The scope of work presented herein is based on the March 3, 2020 Interim Remedial Action Work Plan - Review and Comments letter ("WDNR Letter") provided by the Wisconsin Department of Natural Resources (WDNR) in response to GZA's November 21 [sic - November 25], 2019 *Interim Remedial Action Work Plan*.¹ A telephone discussion of the WDNR Letter was convened on March 13, 2020, with representatives of LRI, GZA, and Axley Brynson, LLP law firm. Further, the proposed scope of work presented herein was discussed with you and Ms. Cheryl Chew of LRI, on July 8, 2020.

The supplemental investigation activities proposed by GZA are intended to satisfy the requirements of Chapter NR 716 of the Wisconsin Administrative Code (Wis. Adm. Code) so that a comprehensive Site Investigation Report and Remedial Action Plan can be submitted to the WDNR.

SITE INFORMATION

The Site is located at the address of 1250 Corporate Center Drive within the City of Oconomowoc, within the northeast ¼, of the northwest ¼ of United States Public Land Survey Section No. 15, Township 7 North, Range 17 East, Waukesha County, Wisconsin. A Site Location Map is provided as Figure 1.

¹ *Interim Remedial Action Work Plan, Leather-Rich, Inc., 1250 Corporate Center Drive, Oconomowoc, Wisconsin, BRRTS No. 02-68-581237 and 06-68-58959, dated November 21, 2019, GZA File No. 20.0156045.00.*



Site Contact Information

Responsible Party: Leather-Rich, Inc.
1250 Corporate Center
Oconomowoc, Wisconsin 53066
Attn: Ms. Cheryl Chew
(813) 340-6761

Consultant: GZA GeoEnvironmental, Inc.
17975 West Sarah Lane, Suite 100
Brookfield, Wisconsin 53045
Attn: Ms. Heidi Woelfel
(262) 754-2594

BACKGROUND

The Site is located on an approximately 4-acre parcel within a commercial business park in the City of Oconomowoc, Wisconsin. The LRI building covers an area of approximately 40,000 square feet and is situated along the southern property boundary. A parking lot is located west of the building adjacent to Executive Drive, a parking lot and grass area are located on the east side of the building along Corporate Center Drive, and a grass area is located north of the building. The surrounding properties are occupied by commercial businesses. Figure 2 is a Site Plan that shows the Site layout and features.

Building Layout and Operations

The internal layout of the LRI building is presented on Figure 3. The operations manager office space is the only office space that faces the work area and is occupied minimally throughout the work week for an average of 20 hours. Other office space is located in the southeast corner of the building and upgradient of the containment area.

Spray booths are located in a spray room where water-based dyes are used and stored. According to the Safety Data Sheet (SDS) for these dyes, they are considered non-hazardous. The spray room is an area where garments are treated with dyes and leather treatment chemicals. The leather dyes used in the spray room consist of water-based mixtures. Based on the information provided by LRI for the chemical products used in the spray room, the spray room is not considered to be a potential source area of concern due to the limited quantity of products used in this area.

There are two currently in-use "fur vaults," which are temperature- and humidity-controlled rooms used to preserve the integrity of garments. In a third former "fur vault," rug cleaning is performed using conventional detergents, water, and a steam gun. Lastly, the facility uses industrial-grade ozone generators in a controlled "ozone room," which is used to remove smoke and other odors from garments. This area is also used for garment repair in the center and pillow ticking to the west.

The shed located outside of the north exterior wall within the fenced area is approximately 12 feet by 9 feet and is used to store the lawnmower, trimmer, and small fuel containers. No other chemical storage has been conducted within the shed.

System Upgrades and Preventative Measures

The dry cleaning operations originally consisted of eight dry cleaning machines that were installed in 1993, which were mounted on a 4-inch concrete slab on top of the floor slab. Between 2016 and 2017, six of the machines were removed from service; two machines remain today. The reduction in the number of machines and the resulting reduction in the



amount of tetrachloroethene (PCE) used has reduced and/or prevented potential discharges. Additionally, the existing machines are inspected weekly for maintenance and whether any leaks have occurred. The PCE filtration unit is also inspected daily for maintenance issues or leaks. The dry cleaning machines represent a closed loop system and the PCE used in the dry cleaning operation is recovered and treated for re-use. PCE is delivered to the Site via the overhead doors located west of the process area and is wheeled to a PCE storage tank in the process area, which is located in the containment area along the north wall, behind the machine and process area. Waste sludge from dry cleaning operations is stored in 55-gallon drums on a concrete surface northeast of the dry cleaning machines within the containment area, which are transported and disposed off-Site approximately three times per year.

Potential PFAS-Containing Products

The WDNR has requested clarification on the use of Scotchgard™ at the Site. LRI did not use the brand name Scotchgard™ as a water propellant, but the website for LRI does reference Scotchgard™ for customer recognition and understanding. LRI has used another water repel product, Water Repel #2, which does not contain per- and polyfluoroalkyl substances (PFAS). The annual volume of Water Repel #2 purchased by LRI is between 2 and 3 gallons; the actual use of the product is less, as LRI also sold small containers for customer use. The Water Repel #2 is applied by a spray gun within a spray booth. The spray booth has thick filters to trap overspray, which are changed regularly and inspected weekly. Additionally, there is an exhaust system that exits through the roof. The Water Repel #2 and the dye chemicals are stored on a shelving area of the spray room.

No PFAS-containing material product has been used in the carpet cleaning operations. Carpet cleaning operations utilize soap and water only.

Off-Site Receptors and Utilities

The delivery and unloading area on the north side of the LRI building has a trench floor drain, which drains to the municipal sanitary sewer system. Wastewater from the rug cleaning process, which uses conventional detergents, is discharged into this drain. A floor drain in the garage area/pillow ticking area by the overhead door discharges to the storm sewer. The conventional laundry and emergency shower areas also have trench drains, but these connect directly to the sanitary sewer utility.

The storm sewer and electrical utility easement for the development are located south of the LRI property. Water and sanitary sewer enter the east wall of the building from Corporate Center Drive. The internal water lines within the building were constructed overhead; the only subsurface utilities in the building are storm and sanitary sewer. Electrical utility enters the building from the south side of the property. The utility layout and drains are presented on Figure 2.

The closest downgradient potable wells are located approximately 1,600 to 2,100 feet northwest of the facility. The two potable wells each serve a single household. The well records are presented in Attachment 1. The closest downgradient building is located northwest of the Site approximately 400 feet and is currently occupied by Hein Electric Supply Company (Hein Electric). Hein Electric is provided municipal water by the City of Oconomowoc.

Indoor Air Sampling Status

Indoor air sampling was requested in the WDNR Letter. Based on the ongoing activities at the Site where PCE is regularly used for dry cleaning, indoor air samples likely will confirm the presence of PCE in vapors from Site use rather than vapor partitioning and migration from the subsurface. It is requested, therefore, that the indoor air sampling activities are delayed until the dry cleaning operations are no longer active and the soil vapor extraction (SVE) system is operational. As you know, the SVE pilot test was completed in 2019.



Figure 3 presents the layout of the building, which shows that no offices are near the locations of the vapor probes that were installed in 2018. The actual office areas are located upgradient of the containment area and it is unlikely that preferential pathways exist for vapors to migrate into the spaces, as no sub-slab utilities traverse the building from the containment area to the office space. As indicated above, we suggest that the sub-slab samples not be collected until the proposed SVE system is operational to address the elevated concentrations of PCE in the soil.

PROPOSED SCOPE OF WORK

Based on the background information presented above and our prior discussions, GZA has prepared this scope of work to conduct supplemental Site investigation activities in accordance with Chapter NR716 of the Wis. Adm. Code. The scope of work developed by GZA is presented below, but is subject to change based on the results of the field conditions and the results of analytical testing on the collected soil and groundwater samples.

Off-Site Investigation

- Advancement of two soil borings off-Site on the northwest property occupied by Hein Electric.

The two borings will be converted to NR 141 monitoring wells to delineate PCE, trichloroethylene (TCE), and PFAS. As previously discussed with you, Ms. Fassbender, and Ms. Chew, concentrations of chlorinated hydrocarbons and PFAS were previously detected in groundwater samples collected near the downgradient property line in monitoring well MW-17. The results of the analytical testing performed on the downgradient monitoring wells is presented in Tables 1 (VOCs) and 2 (PFAS) and shown on Figure 4 for VOCs, and laboratory analytical reports for the PFAS samples are provided in Attachment 2. The locations of the proposed monitoring wells are shown on Figure 2.

- Collection of one soil sample from each boring from the capillary fringe within the soil column, anticipated to be at 12 to 16 feet below ground surface (bgs), for submittal to a laboratory for VOC analyses.

Soil samples will be collected by placing soil into laboratory-supplied sample containers, placing the samples on ice in an insulated cooler, and shipping the samples under standard chain-of-custody protocol to a subcontracted analytical laboratory. The soil samples will be analyzed for VOCs.

Prior to commencement of subsurface activities, public utilities will be marked by Digger's Hotline, the public utility locating service in Wisconsin.

Each boring will be advanced using track-mounted Geoprobe® drilling equipment. During boring advancement, soils will be field-screened and visually described in 2-foot sampling intervals from the ground surface to the terminus of each boring, which is estimated to be approximately 20 feet bgs. The soil lithology and other observations will be recorded on the boring logs and in the field notebook.

During visual soil description, a portion of the soil sample from each 2-foot interval will be placed in a sealed, plastic bag and allowed to equilibrate prior to field screening for total VOCs using a photoionization detector (PID) equipped with a 10.6 eV lamp. The samples recovered will also be visually inspected for indication of potential impairment and classified in accordance with the Unified Soil Classification System (USCS). Field observations, including PID results, will be recorded on a soil boring log for each boring.

Following soil sampling, each of the monitoring wells will be installed as Wis. Adm. Code Chapter NR 141-compliant flush-mount wells. The wells will be installed using a hollow-stem auger to a depth of 20 feet bgs and will be constructed with 2-inch PVC riser pipe consisting of 10 feet of 0.010-inch screen with 10 feet of riser. The wells will be developed following installation to remove fines from the groundwater and sand pack around the screen. Following the installation of the wells, each location will be allowed to accumulate water over a 24-hour period and will subsequently be purged and



developed. Field documentation forms to be completed during the investigation include soil boring logs, monitoring well construction forms, well development forms and laboratory chain-of-custody documentation.

Groundwater samples will be collected from each well location, along with the monitoring well network, using low flow methods and a peristaltic pump equipped with dedicated disposable tubing. GZA will use standard industry methods to collect groundwater samples that are as sediment-free as possible. The groundwater samples will be placed into laboratory-supplied sample containers, placed on ice in an insulated cooler, and shipped under chain-of-custody protocol to a Wisconsin-certified laboratory. The groundwater samples will be analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 8260. Groundwater samples from the off-Site wells will also be analyzed for PFAS by USEPA Method 537 Modified.

Vertical Aquifer Profiling

Advancement of two soil borings for completion of vertical aquifer profiling (VAP) at the following locations:

- One VAP boring at the location of PZ-3 to delineate the plume vertically and to guide the appropriate depth or depths to set the piezometer.
- One VAP boring near the location of the contaminant source to define the plume vertically. The location of the second VAP will be between existing monitoring wells MW-6 and MW-7.

The locations of the VAP borings are shown on Figure 2. The VAP borings will be installed using a direct-push Geoprobe® to a depth of 50 feet bgs. Based on the previous subsurface activities, it is anticipated that groundwater will be encountered between 12 and 16 feet bgs.

Once groundwater is encountered, each 10-foot interval to a depth of 50 feet will be screened and a groundwater sample will be collected. Due to the homogenous nature of the sand and gravel at the Site, intervals of less than 10 feet will not be required for sampling. The samples will be collected at each sampling interval via low-flow sampling techniques to monitor the groundwater zone conditions, and upon stabilization of the parameters, the samples will be collected into laboratory-supplied jars for VOC analyses. The results of the VAP sampling will determine the potential need and depth of any additional piezometers and will provide a more in-depth understanding of the fate and transport of dissolved PCE at the Site. Following the drilling and sampling activities at the Site, GZA will coordinate the pick-up and disposal of the investigation-derived waste soil and groundwater.

Monitoring Well Network Sampling

The monitoring well network, consisting of 17 monitoring wells and three piezometers, will be sampled for VOCs utilizing low-flow sampling. The sampling activities will be conducted using low-flow methods and a peristaltic pump equipped with dedicated disposable tubing. GZA will use standard industry methods to collect groundwater samples that are as sediment-free as possible. The groundwater samples will be placed into laboratory-supplied sample containers, placed on ice in an insulated cooler, and shipped under chain-of-custody protocol to a Wisconsin-certified laboratory. The groundwater samples will be analyzed for VOCs by USEPA Method 8260.

Prior to well sampling activities, each monitoring well will be gauged for depth to water. The monitoring well network, including the two newly installed wells, will be re-surveyed to a known datum to evaluate the groundwater flow patterns.

Site Investigation Reporting

The soil and groundwater laboratory VOC data are anticipated within two to four weeks of submittal of the samples to the laboratory. The laboratory data for PFAS will require additional time following submittal to the laboratory. GZA will



review and evaluate the data and prepare a Site Investigation Addendum Report documenting our observations from the field and the results of soil and groundwater laboratory testing as compared to applicable regulatory standards in Chapters NR 140 and NR 700 of the Wis. Adm. Code. A draft of the Site Investigation Addendum Report will be prepared for review by the Client prior to submittal to the WDNR.

CONCLUSIONS


As a small business that is actively interested in moving forward with the Site remedial work in support of a real estate transaction, LRI is requesting that the in-situ remedial efforts for addressing PCE in groundwater be conducted following completion of the supplemental investigation activities presented herein. In recent conversations between LRI, GZA, and the WDNR, concern on the part of the WDNR was voiced that the PFAS investigation and sampling were necessary to be completed before approval would be granted for the remediation of chlorinated hydrocarbons dissolved in groundwater. As the concentration of the PFAS and PCE in groundwater at the Site are relatively low, and if the off-Site investigation and sampling provide favorable data with the respect to PFAS, LRI would like the WDNR's concurrence that the groundwater remediation, which was outlined in the *Interim Remedial Work Plan* dated November 21, 2019, be conducted.

Should you have any questions regarding the information contained herein, please feel free to contact us at your convenience.

Very truly yours,

GZA GeoEnvironmental, Inc.


Heidi A. Woelfel
Project Manager


James F. Drought, P.H.
Principal Hydrogeologist
Vice President

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Attachments: Tables 1 and 2
Figures 1 through 4
Well Records
Laboratory Analytical Reports



TABLES

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	MW-1						MW-2					
			9/24/1993 Giles	10/24/2017 Giles	3/15/2018 Giles	7/17/2018 Giles	4/19/2019 GZA	7/15/2019 GZA	1/9/2020 GZA	3/15/2018 Giles	7/17/2018 Giles	4/19/2019 GZA	7/15/2019 GZA	1/9/2020 GZA
Chloroform	6	0.6	< 0.7	< 2.5	< 0.37	< 0.37	< 1.3	< 1.3	< 1.3	< 0.37	< 0.37	< 1.3	< 1.3	< 1.3
Tetrachloroethene	5	0.5	< 0.7	36.2	190	16	135	45.3	35.9	45	35	40.0	28	23.2
Trichloroethene	5	0.5	< 0.7	2.2	26	2.1	21.7	6.9	2.9	< 0.16	0.026 J	< 0.26	< 0.26	0.33 J
cis-1,2-Dichloroethene	70	7	< 0.7	8.3	54	5.7	51.6	16.1	6.9	< 0.41	< 0.41	< 0.27	< 0.27	< 0.27
trans-1,2-Dichloroethene	100	20	< 0.7	< 0.26	1.5	< 0.35	1.3	< 1.1	< 1.1	< 0.35	< 0.35	< 1.1	< 1.1	< 1.1
Nitrate as N	10000	2000	NA	NA	NA	NA	NA	8000	NA	NA	NA	NA	NA	NA
Sulfate	NS	NS	NA	NA	NA	NA	NA	22800	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	NA	NA	NA	NA	NA	< 35.4	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	300	60	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	600 J	NA	NA	NA	NA	NA	NA

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	MW-3				MW-4				MW-5			MW-5 DUP	MW-5
			3/15/2018	7/17/2018	4/17/2019	1/10/2020	3/15/2018	7/17/2018	4/24/2019	1/10/2020	3/15/2018	7/17/2018	4/18/2019	4/18/2019	1/9/2020
Collected by:			Giles	Giles	GZA	GZA	Giles	Giles	GZA	GZA	Giles	Giles	GZA	GZA	GZA
Chloroform	6	0.6	< 0.37	< 0.37	< 1.3	< 1.3	< 0.37	< 0.37	< 1.3	< 1.3	< 0.37	< 0.37	< 1.3	< 1.3	< 1.3
Tetrachloroethene	5	0.5	< 0.37	< 0.37	0.81	0.67 J	0.61 J	< 0.37	2.2	2.2	1.6	1.6	0.99	1.0	2
Trichloroethene	5	0.5	< 0.16	< 0.16	< 0.26	< 0.26	< 0.16	< 0.16	< 0.26	< 0.26	< 0.16	< 0.16	< 0.26	< 0.26	< 0.26
cis-1,2-Dichloroethene	70	7	< 0.41	< 0.41	< 0.27	< 0.27	< 0.41	< 0.41	< 0.27	< 0.27	< 0.41	< 0.41	< 0.27	< 0.27	< 0.27
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 1.1	< 1.1	< 0.35	< 0.35	< 1.1	< 1.1	< 0.35	< 0.35	< 1.1	< 1.1	< 1.1
Nitrate as N	10000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	MW-6					MW-7				MW-8			
			3/15/2018	7/17/2018	4/16/2019	7/15/2019	1/9/2020	3/15/2018	7/17/2018	4/16/2019	1/9/2020	3/15/2018	7/17/2018	4/16/2019	1/9/2020
			Giles			GZA		Giles		GZA		Giles		GZA	
Chloroform	6	0.6	< 0.74	< 0.37	< 1.3	< 6.4	< 6.4	0.54 J	< 0.37	< 1.3	< 1.3	< 0.37	< 0.37	<u>8.8</u>	< 1.3
Tetrachloroethene	5	0.5	<u>760</u>	<u>620</u>	<u>939</u>	<u>636</u>	<u>360</u>	<u>180</u>	<u>170</u>	<u>204</u>	<u>131</u>	<u>120</u>	<u>63</u>	<u>61.9</u>	<u>8.2</u>
Trichloroethene	5	0.5	<u>170</u>	<u>190</u>	<u>194</u>	<u>76.8</u>	< <u>23</u>	<u>18</u>	<u>34</u>	<u>29.8</u>	<u>23</u>	<u>4.9</u>	<u>1.8</u>	<u>1.1</u>	< 0.26
cis-1,2-Dichloroethene	70	7	<u>320</u>	<u>360</u>	<u>366</u>	<u>242</u>	<u>30.3</u>	<u>36</u>	<u>100</u>	<u>84.9</u>	<u>30.8</u>	5.6	2.7	2.1	< 0.27
trans-1,2-Dichloroethene	100	20	8.7	< 0.35	14.9	5.7 J	< 5.5	1.2	2.3	2.1	< 1.1	< 0.35	< 0.35	< 1.1	< 1.1
Nitrate as N	10000	2000	NA	NA	NA	<u>6300</u>	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NS	NS	NA	NA	NA	20400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	NA	NA	NA	206	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	300	60	NA	NA	NA	20.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	NA	NA	NA	770 J	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	MW-9			MW-10		MW-10 DUP	MW-11		MW-12		
			7/17/2018	4/17/2019	1/9/2020	4/17/2019	1/9/2020		4/17/2019	1/9/2020	4/17/2019	7/15/2019	1/9/2020
Collected by:			Giles	GZA	GZA	GZA	GZA		GZA	GZA	GZA	GZA	GZA
Chloroform	6	0.6	< 0.37	< 1.3	< 1.3	< 2.5	< 1.3	< 1.3	< 1.3	< 1.3	< 2.5	< 1.3	< 1.3
Tetrachloroethene	5	0.5	<u>400</u>	<u>363</u>	<u>184</u>	<u>177</u>	<u>19.1</u>	<u>16.9</u>	<u>266</u>	<u>37.7</u>	<u>97.3</u>	<u>49.5</u>	<u>54.9</u>
Trichloroethene	5	0.5	<u>110</u>	<u>78.3</u>	<u>19.8</u>	<u>24.5</u>	<u>1.1</u>	<u>0.83 J</u>	<u>34.1</u>	<u>2.3</u>	<u>13.1</u>	<u>5.1</u>	<u>6</u>
cis-1,2-Dichloroethene	70	7	<u>190</u>	<u>163</u>	<u>24.3</u>	<u>41.5</u>	0.30 J	0.29 J	<u>44.9</u>	3.1	<u>25.2</u>	<u>7.3</u>	<u>8.6</u>
trans-1,2-Dichloroethene	100	20	10	7.9	0.30 J	3.5	< 1.1	< 1.1	2.0	< 1.1	< 2.2	< 1.1	< 1.1
Nitrate as N	10000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>8900</u>	NA
Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	23600	NA
Iron, Dissolved	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	59.4 J	NA
Manganese, Dissolved	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1	NA
Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	560 J	NA

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	MW-13			MW-14		MW-15		MW-15 DUP	MW-16		MW-17	
			4/17/2019	7/15/2019	1/9/2020	4/17/2019	1/9/2020	4/17/2019	1/9/2020	7/15/2019	1/10/2020	7/15/2019	1/10/2020	
Collected by:			GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	GZA	
Chloroform	6	0.6	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	
Tetrachloroethene	5	0.5	167	98.8	71.5	10.7	7.4	0.71	0.55 J	0.53 J	6.6	3.4	187	128
Trichloroethene	5	0.5	22.5	8.4	4.1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	0.62 J	< 0.26	17.7	7.2
cis-1,2-Dichloroethene	70	7	45.4	17.9	5.3	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	1.4	< 0.27	38.2	11.1
trans-1,2-Dichloroethene	100	20	1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Nitrate as N	10000	2000	NA	8200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NS	NS	NA	24000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	NA	35.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	300	60	NA	2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	NA	780 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Leather-Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

Parameter	ES (ug/L)	PAL (ug/L)	PZ-1		PZ-1 DUP	PZ-1	PZ-2			PZ-3		Containment Area
			7/17/2018	4/16/2019	4/16/2019	1/9/2020	7/17/2018	4/17/2019	1/9/2020	7/15/2019	1/9/2020	4/17/2019
Collected by:			Giles	GZA	GZA	GZA	Giles	GZA	GZA	GZA	GZA	GZA
Chloroform	6	0.6	< 0.37	< 1.3	< 1.3	< 1.3	< 0.37	< 1.3	< 1.3	< 1.3	< 1.3	< 12.7
Tetrachloroethene	5	0.5	< 0.37	0.84	0.90	0.36 J	< 0.37	3.0	7.5	106	106	82.3
Trichloroethene	5	0.5	0.63 J	< 0.26	< 0.26	< 0.26	< 0.16	0.37	0.30 J	2.4	1.4	730
cis-1,2-Dichloroethene	70	7	< 0.41	< 0.27	< 0.27	< 0.27	< 0.41	< 0.27	< 0.27	4.2	2	1640
trans-1,2-Dichloroethene	100	20	< 0.35	< 1.1	< 1.1	< 1.1	< 0.35	< 1.1	< 1.1	< 1.1	< 1.1	23.2
Nitrate as N	10000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Dissolved	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. (GZA) and analyzed by PACE Analytical Lab, Inc. (PACE) of Green Bay, Wisconsin using WI GRO for GROs and USEPA Method 8260 for Volatile Organic Compounds
2. Results are presented in micrograms per liter (µg/l).
3. Results are compared to Wisconsin Administrative Code (WAC) Chapter NR 140 Enforcement Standards (ESs) and Preventive Action Limits (PALs). **Underlined Bold Red font** indicates the parameter was detected above the ES and **Bold italicized font** indicates the parameter was detected above the PAL.
4. "-" = The sample was not analyzed for the specified parameter.
5. Only results for compounds detected during laboratory analyses are presented.
6. J = Estimated value. The analyte was detected at a concentration between the limit of detection (LOD) and limit of quantification (LOQ).
7. "NA" = Not Analyzed
8. "NS" = No Standard available under WAC NR 140.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS - PFAS
Leather Rich, Inc.
1250 Corporate Center Drive
Oconomowoc, Wisconsin

	Units	WAC 140		MW-3	MW-4	MW-14	MW-17
		PAL	ES				
Sample Date				1/10/2020	2/25/2020	2/25/2020	1/10/2020
PFAS and PFOA							
PFBA	ng/L	NS	NS	2.7	11	2.5	2.8
PFPeA	ng/L	NS	NS	<2.0	13	2.1	5.2
PFBS	ng/L	NS	NS	2.3	4	9.3	12
PFHxA	ng/L	NS	NS	<2.0	12	<2.1	5.4
PFPrOPrA	ng/L	NS	NS	<4.0	<4.2	<4.2	<4.0
PFHpA	ng/L	NS	NS	<2.0	6.9	<2.1	8.2
NaDONA	ng/L	NS	NS	<4.0	<4.2	<4.2	<4.0
PFHxS	ng/L	NS	NS	<1.9	3	3.5	8.5
PFOA	ng/L	2.00	20.0	<2.0	<u>17</u>	<u>5.4</u>	31
PFNA	ng/L	NS	NS	<2.0	<2.1	<2.1	4.9
PFOS	ng/L	2.0	20.0	<u>5.1</u>	<u>8.9</u>	<u>14</u>	160 D
PFDA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
PFUnA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
N-MeFOSAA	ng/L	NS	NS	<4.0	<4.2	<4.2	<4.0
N-EtFOSAA	ng/L	NS	NS	<4.0	<4.2	<4.2	<4.0
PFDS	ng/L	NS	NS	<1.9	<2.0	<2.0	<1.9
PFDoA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
PFTTrDA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
PFTA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
PFHxDA	ng/L	NS	NS	<2.0	<2.1	<2.1	<2.0
PFODA	ng/L	NS	NS	<2.0	<2.0	<2.0	<2.0

Notes:

1. Groundwater samples were analyzed by Pace Analytical of Green Bay, Wisconsin by USEPA Method 537 Modified
2. Analytical results are presented in nanograms per liter (ng/l); equivalent to parts per trillion (ppt).
3. Results for compounds that were analyzed by the laboratory presented.
4. Wisconsin Administrative Code (WAC) Chapter NR 140 Enforcement Standards (ES) and Preventive Action Limits (PAL) provided are based on the June 2019 provisional standards.
5. Underlined font indicates a concentration in exceedance of a PAL. **Bold red** font indicates a concentration in exceedance of an ES.
6. <= Analytes were not present at concentrations above the laboratory detection limit.
7. NS - No Standard
- 8.0 'D' - Result obtained from analysis of diluted sample



FIGURES

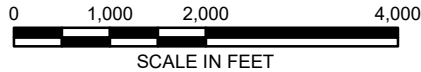
© 2019 - GZA GeoEnvironmental, Inc. \\GZAWaukeshajobs\1560000\156045 Leather Rich\Figures\20.0156045.00 Site Location.mxd, March 20, 2019 - 11:28:15 AM, pamela.rehbein



SOURCE:

BASE MAP FROM THE FOLLOWING
USGS QUADRANGLE MAP:

OCONOMOWOC, WI (2018)



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DIGITAL TOPOGRAPHIC MAPS PROVIDED BY NGMDB.USGS.GOV

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

LEATHER-RICH
1205 CORPORATE CENTER DRIVE
OCONOMOWOC, WI

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

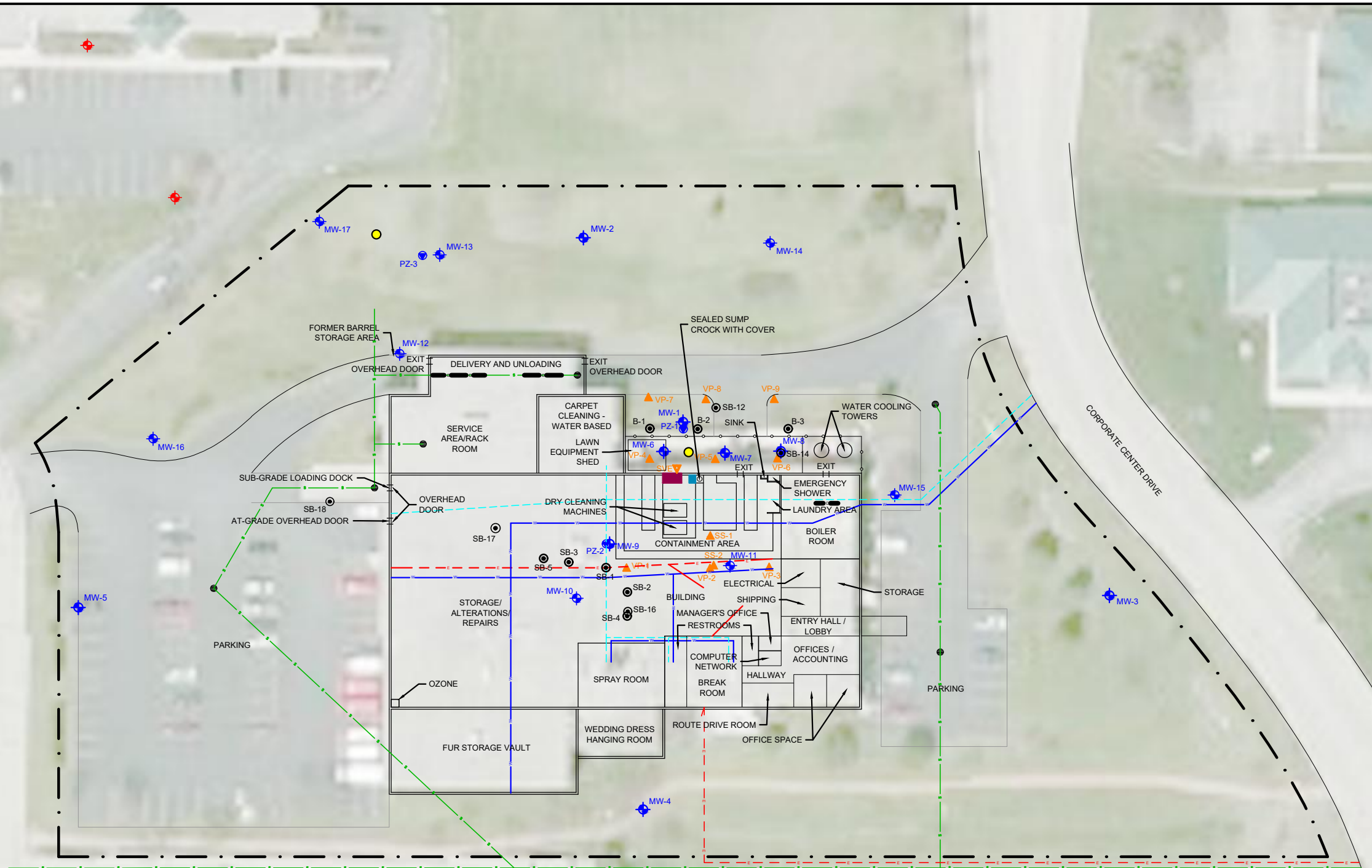
PREPARED FOR:
LEATHER-RICH, INC.
1205 CORPORATE CENTER DRIVE
OCONOMOWOC, WI

SITE LOCATION MAP

PROJ MGR:	KMH	REVIEWED BY:	JFD	CHECKED BY:	JJLP
DESIGNED BY:		DRAWN BY:	MJS	SCALE:	1 in = 2,000 ft
DATE:	03/20/2019	PROJECT NO:	20.0156045.00	REVISION NO:	

FIG	1
SHEET NO:	

©2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG 2 AUGUST 20, 2020 PAMELA REHBEIN

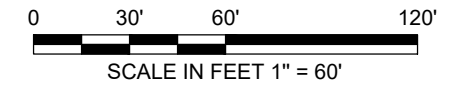
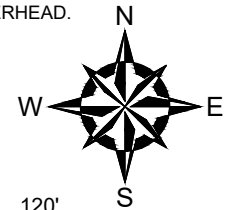


LEGEND

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

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
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4. THE APPROXIMATE LOCATION OF THE SITE BOUNDARY, BUILDING FOOTPRINT, AND EXPLORATIONS WERE OBTAINED FROM PROFESSIONAL CONSULTANTS, INC. "FIRST FLOOR PLAN", DATED 6-25-93, AND "SITE PLAN PROPOSED", DATED 10-28-96.
5. WATER LINES IN BUILDING ARE OVERHEAD.



NO.	ISSUE/DESCRIPTION	BY	DATE

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

SITE PLAN MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066	
PROJ MGR: HAW	REVIEWED BY: JFD	CHECKED BY: JLP	FIG
DESIGNED BY: HAW	DRAWN BY: PLR	SCALE: see above	2
DATE: 8/20/2020	PROJECT NO. 20.0156045.00	REVISION NO.	

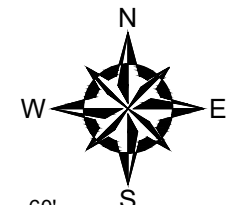
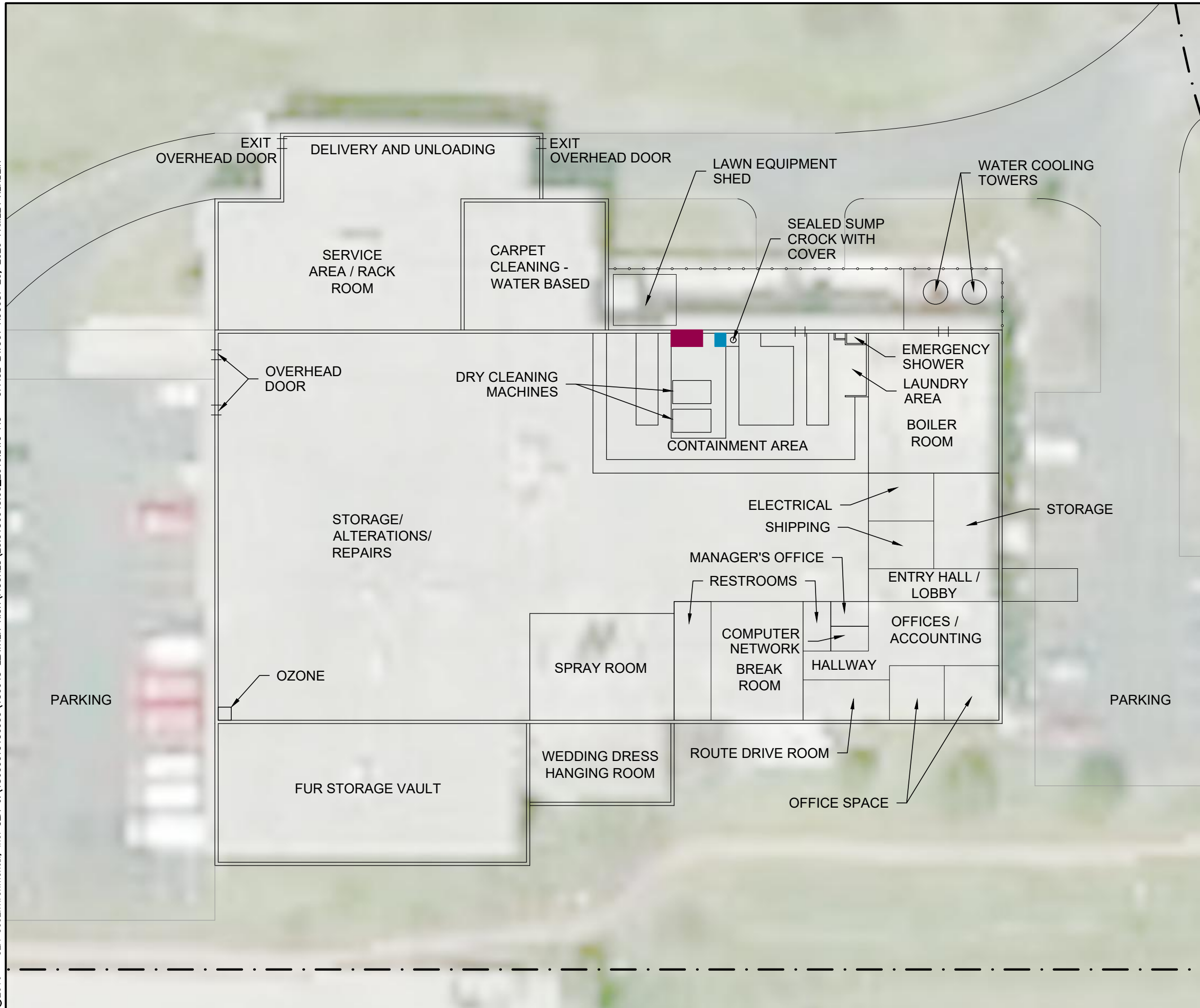
©2016 - GZA GeoEnvironmental, Inc. GZA-J: 156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG FIG -- OFFICE LAYOUT AUGUST 20, 2020 PAMELA REHBEIN

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
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5. WATER LINES IN BUILDING ARE OVERHEAD.



NO.	ISSUE/DESCRIPTION	BY	DATE

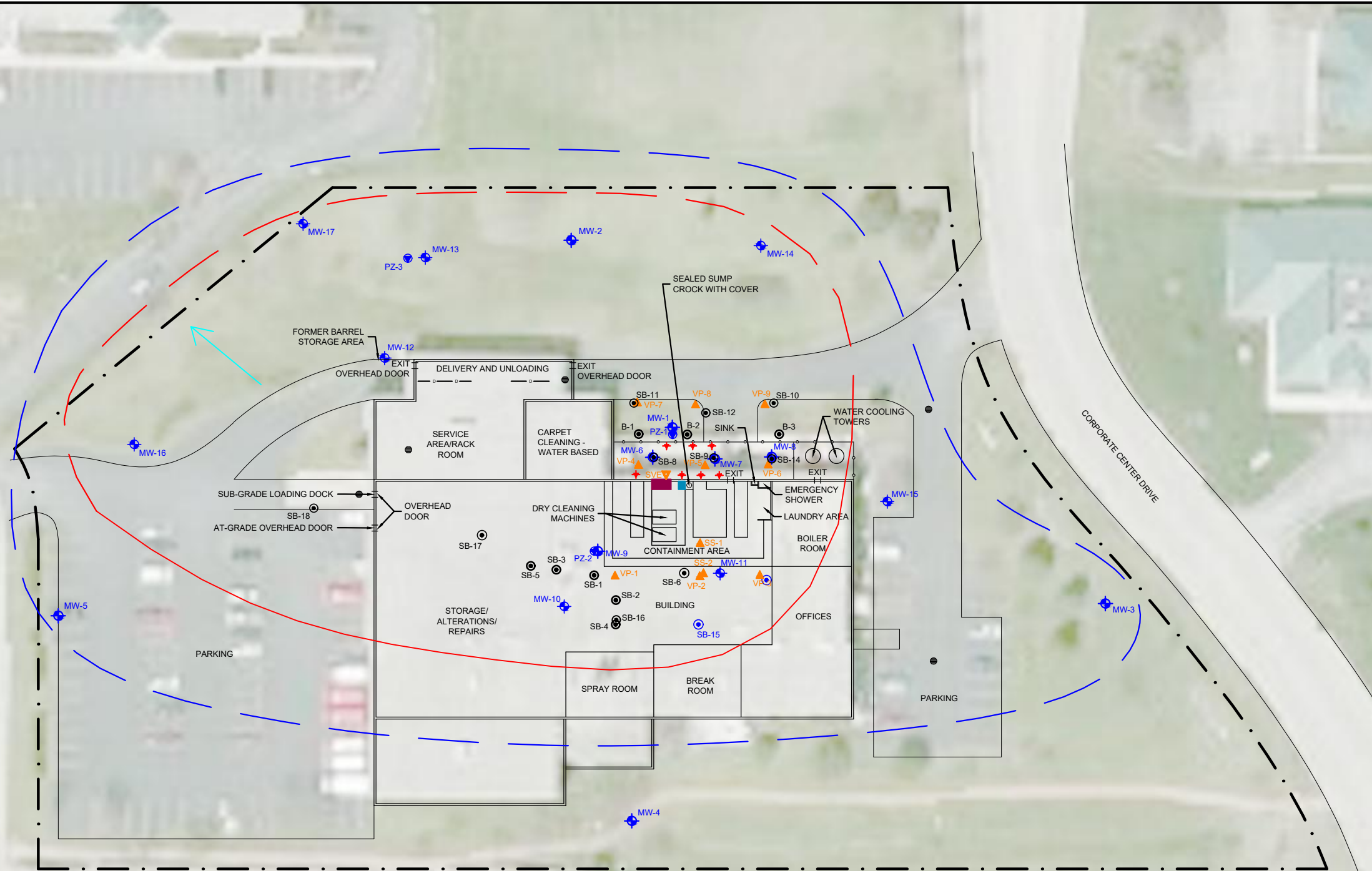
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LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

OFFICE LAYOUT

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066	
PROJ MGR: HAW DESIGNED BY: HAW DATE: 8/20/2020	REVIEWED BY: JFD DRAWN BY: PLR PROJECT NO.: 20.0156045.00	CHECKED BY: JLP SCALE: see above REVISION NO.	FIG 3 SHEET NO. OF

©2016 - GZA GeoEnvironmental, Inc. GZA-J:\156000T0156999\156045 LEATHER RICH\FIGURES\20.0156045.00_2019.DWG DRAFT GROUNDWATER PCE EXTENT SEPTEMBER 11, 2019 MADELINE SALO

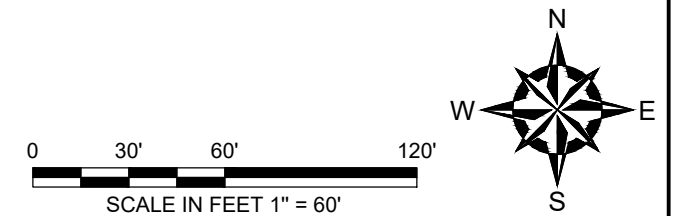


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- GROUNDWATER MONITORING WELL
- PIEZOMETER
- SOIL BORINGS
- DRAIN
- SOIL VAPOR POINT
- SUB-SLAB VAPOR POINT
- TRENCH DRAIN
- PCE FILTRATION UNIT
- PCE ABOVE GROUND STORAGE TANK
- INJECTION WELL LOCATION
- SOIL VAPOR EXTRACTION WELL LOCATION
- PCE PAL EXCEEDANCE, 0.5 UG/L
- PCE ES EXCEEDANCE, 5 UG/L
- GROUNDWATER FLOW DIRECTION

NOTES

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NO.	ISSUE/DESCRIPTION	BY	DATE

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

JANUARY 2020 GROUNDWATER PCE EXTENT

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: LEATHER - RICH, INC. 1250 CORPORATE CENTER DRIVE OCONOMOWOC, WI 53066	
PROJ MGR: HAW	REVIEWED BY: JFD	CHECKED BY: JLP	FIG
DESIGNED BY: HAW	DRAWN BY: PLR	SCALE: see above	4
DATE: 8/7/2019	PROJECT NO. 20.0156045.00	REVISION NO.	
			SHEET NO. OF

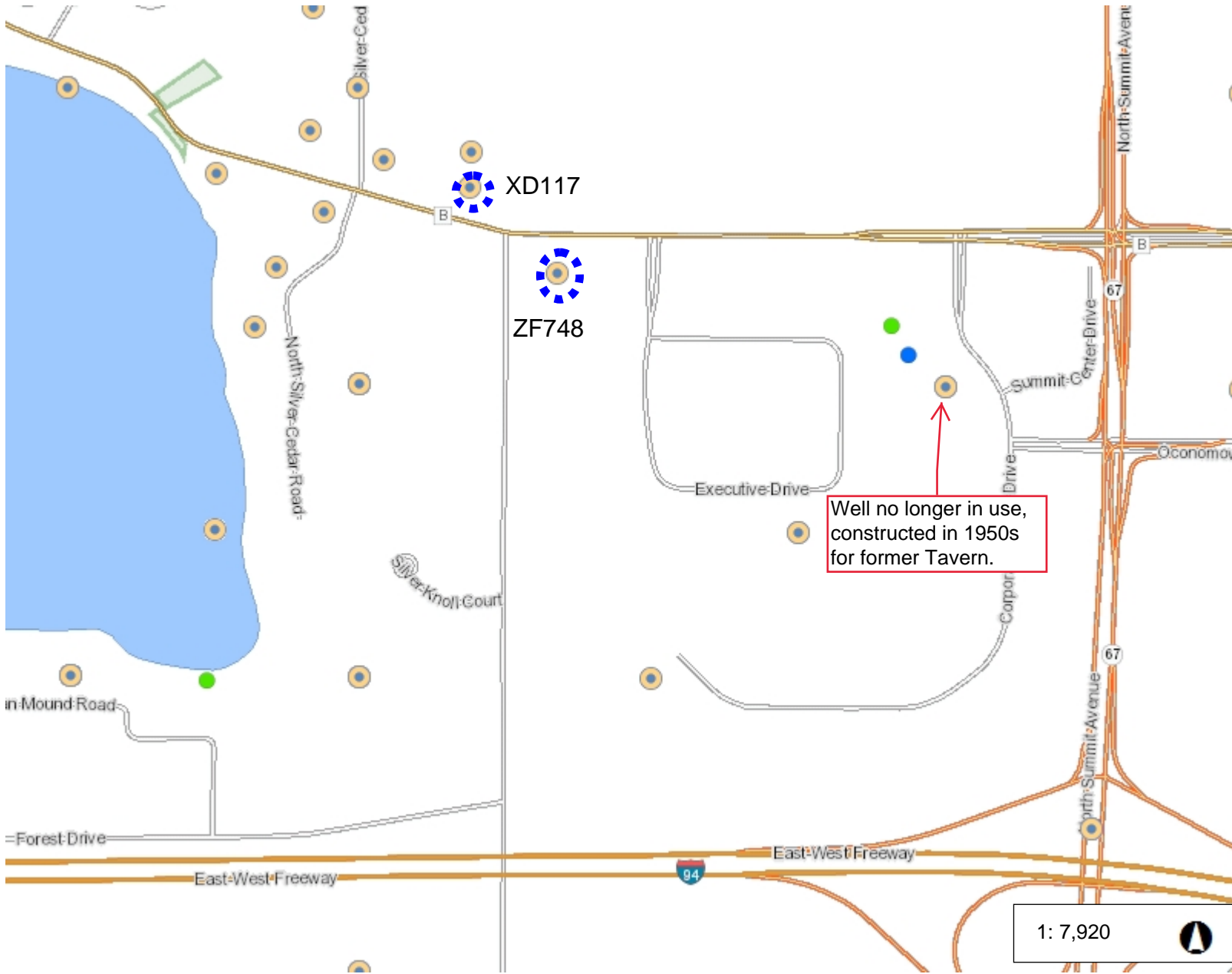


ATTACHMENT 1

Well Records



well viewer

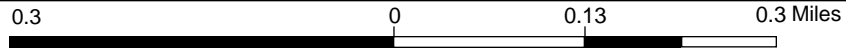


Closest downgradient wells
 Groundwater Flow Direction

- Legend**
- Well Construction Reports
 - Trout Streams
 - Class 1
 - Class 2
 - Class 3
 - Outstanding/Exceptional Reso
 - Surveyed Springs >= 1 CFS
 - Open Site
 - Open Site Boundary
 - Closed Site
 - Closed Site Boundary
 - Dual Aquifer
 - Landfills with 1200 foot buffer
 - Special Casing Areas
 - Municipality
 - City or Village
 - Township
 - State Boundaries
 - County Boundaries
 - Major Roads
 - Interstate Highway
 - State Highway
 - US Highway
 - County and Local Roads
 - County HWY
 - Local Road

Well no longer in use, constructed in 1950s for former Tavern.

1: 7,920



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Notes

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				XD177		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A		
Property Owner SCHUHMACHER, PAUL				Phone #		1. Well Location				Fire # (if avail.)		
Mailing Address 37016 VALLEY RD						Village of SUMMIT						
City OCONOMOWOC				State WI		Street Address or Road Name and Number				37016 VALLEY RD		
County Waukesha		Co. Permit #		Notification #		Completed		Subdivision Name		Lot #	Block #	
				54002151		01-31-2015						
Well Constructor (Business Name)				Lic. #	Facility ID # (Public Wells)			Latitude / Longitude in Decimal Degree (DD)			Method Code	
D & D WELL & PUMPS LLC				7181				43.07737 °N -88.48155 °W			GPS008	
Address S19W37620 PASTEUR CT DOUSMAN WI 53118				Well Plan Approval #			SE	SE	Section	Township	Range	
				Approval Date (mm-dd-yyyy)			9	7 N	17 E			
Hicap Permanent Well #		Common Well #		Specific Capacity			Reason for replaced or reconstructed well ?					
				2			POINT FAILED					
3. Well serves 1 # of				Hicap Well ?		No		2. Well Type Replacement of previous unique well # constructed in				
Private, potable				Hicap Property ?		No						
Heat Exchange ___ # of drillholes				Hicap Potable ?								
Construction Type Drilled												
4. Potential Contamination Sources - ON REVERSE SIDE												
5. Drillhole Dimensions and Construction Method												
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole				Lower Open Bedrock					
6	Surface	41										
5	41	44	Rotary - Mud Circulation									
			Rotary - Air									
			Rotary - Air & Foam									
			Drill-Through Casing Hammer									
			Reverse Rotary									
			Yes Cable-tool Bit ___in. dia...				No					
			Dual Rotary									
			Temp. Outer Casing ___in. dia									
			Removed? ___depth ft. (If NO explain on back side)									
8. Geology Type, Caving/Noncaving, Color, Hardness, etc...												
-	-	Z	-	CLAY & GRAVEL				Surface	2			
-	-	Y	-	SAND & GRAVEL				2	44			
6. Casing, Liner, Screen												
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)							
6	STEEL 18.97# A53-B IPSCO WELDED			Surface	41							
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)							
5	SS TELE 18 SLOT			41	44							
7. Grout or Other Sealing Material												
Method MOUNDED												
Kind of Sealing Material			From (ft.)	To (ft.)	# Sacks Cement							
CRUMBLES			Surface									
9. Static Water Level												
15 ft. below ground surface												
10. Pump Test												
Pumping level 25 ft. below surface												
Pumping at 20 GP M for 2 Hrs.												
Pumping Method ?												
11. Well Is												
15 in. above grade												
Developed ? Yes												
Disinfected ? Yes												
Capped ? Yes												
12. Notified Owner of need to fill & seal ?												
Filled & Sealed Well(s) as needed? Yes												
13. Constructor / Supervisory Driller												
Lic #												
Date Signed												
DJ												
02-03-2015												
Drill Rig Operator												
Lic or Reg #												
Date Signed												

4a. Potential Contamination SourcesIs the well located in floodplain ? No

Type	Qualifier	Distance	Type	Qualifier	Distance
Building Overhang		34	Wastewater Sump		75
Downspout/Yard Hydrant		39	Sewer - Building Sanitary		45

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 05-06-2015

Created by: WELL CONST LOAD

Updated On: 07-12-2019

Updated by: PARCEL_MATCH_LL
_OK

Well Construction Report				ZF748		Drinking Water and Groundwater - DG/5				Form 3300-077A							
WISCONSIN UNIQUE WELL NUMBER						Department of Natural Resources, Box 7921				Madison WI 53707							
Property Owner GOETZKE, MARK					Phone #			1. Well Location			Fire # (if avail.)						
Mailing Address 36933 VALLEY RD								Village of SUMMIT			36933						
City OCONOMOWEE					State WI		Zip Code 53064		Street Address or Road Name and Number								
VALLEY RD								Subdivision Name			Lot #						
County Waukesha		Co. Permit #		Notification # 7778862601		Completed 09-25-2019					Block #						
Well Constructor (Business Name)				Lic. #		Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)			Method Code						
KRIZAN, KENNETH J				6519				43.0763 °N -88.4801 °W			GPS008						
Address 23900 W OVERSON RD UNION GROVE WI 53182-9659				Well Plan Approval #				NW		Section		Township					
				Approval Date (mm-dd-yyyy)				or Govt Lot #		15		7 N		Range			
Hicap Permanent Well #		Common Well #		Specific Capacity				15		7 N		17 E					
2. Well Type Replacement																	
of previous unique well #												constructed in					
Reason for replaced or reconstructed well ?																	
POINT WELL WENT DRY																	
3. Well serves 1 # of HOME				Hicap Well ? No													
Private, potable				Hicap Property ? No													
Heat Exchange ___ # of drillholes				Hicap Potable ? No								Construction Type Drilled					
4. Potential Contamination Sources - ON REVERSE SIDE																	
5. Drillhole Dimensions and Construction Method						Geology Codes			8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.)		To (ft.)			
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock									
6		Surface		195						G		G-GRAVEL/STONES		Surface		15	
						No Rotary - Mud Circulation		No		C S		C-CLAY S-SANDY		15		180	
						No Rotary - Air		No		Y		Y-SAND & GRAVEL		180		193	
						No Rotary - Air & Foam		No		G		G-GRAVEL/STONES		193		195	
						Yes Drill-Through Casing Hammer											
						No Reverse Rotary											
						No Cable-tool Bit ___in. dia...		No									
						No Dual Rotary		No									
						No Temp. Outer Casing ___in. dia											
						No Removed? ___depth ft. (If NO explain on back side)											
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is								
Dia. (in.)		Material, Weight, Specification			From (ft.)		To (ft.)		10 ft. below ground surface			14 in. above grade					
		Manufacturer & Method of Assembly															
6		INDEPENDANCE TUBE ASTM A53 6.625X.280 WELDED			Surface		195		10. Pump Test			Developed ?			Yes		
									Pumping level 10 ft. below surface			Disinfected ?			Yes		
Dia. (in.)		Screen type, material & slot size			From (ft.)		To (ft.)		Pumping at 15 GP M for 3 Hrs.			Capped ?			Yes		
									Pumping Method ? Test Pump								
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?						Yes					
Method MOUNDED																	
Kind of Sealing Material			From (ft.)		To (ft.)		# Sacks Cement		Filled & Sealed Well(s) as needed?						Yes		
#8 MESH BENTONITE			Surface		195												
13. Constructor / Supervisory Driller						Lic #		Date Signed									
KK						6519		10-19-2019									
Drill Rig Operator						Lic or Reg #		Date Signed									

4a. Potential Contamination Sources

Is the well located in floodplain ? No

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 11-11-2019

Created by: KPLEMON

Updated On: 12-26-2019

Updated by: hershs



ATTACHMENT 2

Laboratory Analytical Reports

January 17, 2020

Heidi Woelfel
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Dear Heidi Woelfel:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

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

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SAMPLE SUMMARY

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40201900001	MW-1	Water	01/09/20 12:03	01/13/20 09:40
40201900002	MW-2	Water	01/09/20 09:49	01/13/20 09:40
40201900003	MW-3	Water	01/10/20 10:14	01/13/20 09:40
40201900004	MW-4	Water	01/09/20 15:14	01/13/20 09:40
40201900005	MW-5	Water	01/09/20 14:01	01/13/20 09:40
40201900006	MW-6	Water	01/10/20 12:53	01/13/20 09:40
40201900007	MW-7	Water	01/09/20 11:26	01/13/20 09:40
40201900008	MW-8	Water	01/09/20 10:49	01/13/20 09:40
40201900009	MW-9	Water	01/09/20 13:54	01/13/20 09:40
40201900010	MW-10	Water	01/09/20 14:05	01/13/20 09:40
40201900011	MW-11	Water	01/09/20 13:30	01/13/20 09:40
40201900012	MW-12	Water	01/09/20 15:17	01/13/20 09:40
40201900013	MW-13	Water	01/09/20 10:41	01/13/20 09:40
40201900014	MW-14	Water	01/09/20 09:42	01/13/20 09:40
40201900015	MW-15	Water	01/10/20 12:16	01/13/20 09:40
40201900016	MW-16	Water	01/10/20 11:37	01/13/20 09:40
40201900017	MW-17	Water	01/10/20 11:03	01/13/20 09:40
40201900018	DUP-1	Water	01/09/20 00:00	01/13/20 09:40
40201900019	DUP-2	Water	01/10/20 00:00	01/13/20 09:40
40201900020	PZ-1	Water	01/09/20 13:05	01/13/20 09:40
40201900021	PZ-3	Water	01/09/20 11:09	01/13/20 09:40
40201900022	TRIP	Water	01/10/20 00:00	01/13/20 09:40
40201900023	PZ-2	Water	01/09/20 14:22	01/13/20 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40201900001	MW-1	EPA 8260	HNW	64	PASI-G
40201900002	MW-2	EPA 8260	HNW	64	PASI-G
40201900003	MW-3	EPA 8260	HNW	64	PASI-G
40201900004	MW-4	EPA 8260	HNW	64	PASI-G
40201900005	MW-5	EPA 8260	HNW	64	PASI-G
40201900006	MW-6	EPA 8260	HNW	64	PASI-G
40201900007	MW-7	EPA 8260	HNW	64	PASI-G
40201900008	MW-8	EPA 8260	HNW	64	PASI-G
40201900009	MW-9	EPA 8260	HNW	64	PASI-G
40201900010	MW-10	EPA 8260	HNW	64	PASI-G
40201900011	MW-11	EPA 8260	HNW	64	PASI-G
40201900012	MW-12	EPA 8260	HNW	64	PASI-G
40201900013	MW-13	EPA 8260	HNW	64	PASI-G
40201900014	MW-14	EPA 8260	LAP	64	PASI-G
40201900015	MW-15	EPA 8260	HNW	64	PASI-G
40201900016	MW-16	EPA 8260	LAP	64	PASI-G
40201900017	MW-17	EPA 8260	LAP	64	PASI-G
40201900018	DUP-1	EPA 8260	HNW	64	PASI-G
40201900019	DUP-2	EPA 8260	HNW	64	PASI-G
40201900020	PZ-1	EPA 8260	HNW	64	PASI-G
40201900021	PZ-3	EPA 8260	HNW	64	PASI-G
40201900022	TRIP	EPA 8260	HNW	64	PASI-G
40201900023	PZ-2	EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40201900001	MW-1					
EPA 8260	Tetrachloroethene	35.9	ug/L	1.1	01/15/20 13:30	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	01/15/20 13:30	
EPA 8260	cis-1,2-Dichloroethene	6.9	ug/L	1.0	01/15/20 13:30	
40201900002	MW-2					
EPA 8260	Tetrachloroethene	23.2	ug/L	1.1	01/15/20 13:53	
EPA 8260	Trichloroethene	0.33J	ug/L	1.0	01/15/20 13:53	
40201900003	MW-3					
EPA 8260	Tetrachloroethene	0.67J	ug/L	1.1	01/15/20 14:15	
40201900004	MW-4					
EPA 8260	Tetrachloroethene	2.2	ug/L	1.1	01/15/20 14:38	
40201900005	MW-5					
EPA 8260	Tetrachloroethene	2.0	ug/L	1.1	01/15/20 15:00	
40201900006	MW-6					
EPA 8260	Tetrachloroethene	360	ug/L	5.4	01/16/20 14:19	
EPA 8260	Trichloroethene	23.0	ug/L	5.0	01/16/20 14:19	
EPA 8260	cis-1,2-Dichloroethene	30.3	ug/L	5.0	01/16/20 14:19	
40201900007	MW-7					
EPA 8260	Tetrachloroethene	131	ug/L	1.1	01/15/20 15:45	
EPA 8260	Trichloroethene	12.1	ug/L	1.0	01/15/20 15:45	
EPA 8260	cis-1,2-Dichloroethene	30.8	ug/L	1.0	01/15/20 15:45	
40201900008	MW-8					
EPA 8260	Tetrachloroethene	8.2	ug/L	1.1	01/15/20 16:08	
40201900009	MW-9					
EPA 8260	Tetrachloroethene	184	ug/L	1.1	01/15/20 16:30	
EPA 8260	Toluene	0.64J	ug/L	5.0	01/15/20 16:30	
EPA 8260	Trichloroethene	19.8	ug/L	1.0	01/15/20 16:30	
EPA 8260	cis-1,2-Dichloroethene	24.3	ug/L	1.0	01/15/20 16:30	
EPA 8260	trans-1,2-Dichloroethene	1.9J	ug/L	3.6	01/15/20 16:30	
40201900010	MW-10					
EPA 8260	Tetrachloroethene	19.1	ug/L	1.1	01/15/20 17:38	
EPA 8260	Toluene	0.30J	ug/L	5.0	01/15/20 17:38	
EPA 8260	Trichloroethene	1.1	ug/L	1.0	01/15/20 17:38	
EPA 8260	cis-1,2-Dichloroethene	0.30J	ug/L	1.0	01/15/20 17:38	
40201900011	MW-11					
EPA 8260	Tetrachloroethene	37.7	ug/L	1.1	01/15/20 16:53	
EPA 8260	Trichloroethene	2.3	ug/L	1.0	01/15/20 16:53	
EPA 8260	cis-1,2-Dichloroethene	3.1	ug/L	1.0	01/15/20 16:53	
40201900012	MW-12					
EPA 8260	Tetrachloroethene	54.9	ug/L	1.1	01/15/20 18:00	
EPA 8260	Trichloroethene	6.0	ug/L	1.0	01/15/20 18:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40201900012	MW-12					
EPA 8260	cis-1,2-Dichloroethene	8.6	ug/L	1.0	01/15/20 18:00	
40201900013	MW-13					
EPA 8260	Tetrachloroethene	71.5	ug/L	1.1	01/15/20 17:15	
EPA 8260	Trichloroethene	4.1	ug/L	1.0	01/15/20 17:15	
EPA 8260	cis-1,2-Dichloroethene	5.3	ug/L	1.0	01/15/20 17:15	
40201900014	MW-14					
EPA 8260	Tetrachloroethene	7.4	ug/L	1.1	01/15/20 13:36	
40201900015	MW-15					
EPA 8260	Tetrachloroethene	0.55J	ug/L	1.1	01/16/20 12:54	
40201900016	MW-16					
EPA 8260	Tetrachloroethene	3.4	ug/L	1.1	01/15/20 14:00	
40201900017	MW-17					
EPA 8260	Tetrachloroethene	128	ug/L	1.1	01/15/20 14:23	
EPA 8260	Trichloroethene	7.2	ug/L	1.0	01/15/20 14:23	
EPA 8260	cis-1,2-Dichloroethene	11.1	ug/L	1.0	01/15/20 14:23	
40201900018	DUP-1					
EPA 8260	Tetrachloroethene	16.9	ug/L	1.1	01/16/20 13:15	
EPA 8260	Toluene	0.24J	ug/L	5.0	01/16/20 13:15	
EPA 8260	Trichloroethene	0.83J	ug/L	1.0	01/16/20 13:15	
EPA 8260	cis-1,2-Dichloroethene	0.29J	ug/L	1.0	01/16/20 13:15	
40201900019	DUP-2					
EPA 8260	Tetrachloroethene	0.53J	ug/L	1.1	01/16/20 13:36	
40201900020	PZ-1					
EPA 8260	Tetrachloroethene	0.36J	ug/L	1.1	01/16/20 13:58	
40201900021	PZ-3					
EPA 8260	Tetrachloroethene	106	ug/L	1.1	01/15/20 10:42	
EPA 8260	Trichloroethene	1.4	ug/L	1.0	01/15/20 10:42	
EPA 8260	cis-1,2-Dichloroethene	2.0	ug/L	1.0	01/15/20 10:42	
40201900023	PZ-2					
EPA 8260	Tetrachloroethene	7.5	ug/L	1.1	01/15/20 13:34	
EPA 8260	Trichloroethene	0.30J	ug/L	1.0	01/15/20 13:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-1 **Lab ID: 40201900001** Collected: 01/09/20 12:03 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:30	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 13:30	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:30	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 13:30	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:30	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 13:30	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 13:30	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 13:30	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 13:30	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 13:30	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 13:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 13:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:30	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 13:30	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 13:30	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 13:30	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 13:30	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 13:30	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 13:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 13:30	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 13:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 13:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 13:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 13:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 13:30	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 13:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 13:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 13:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 13:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 13:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 13:30	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 13:30	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 13:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 13:30	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 13:30	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 13:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 13:30	100-42-5	
Tetrachloroethene	35.9	ug/L	1.1	0.33	1		01/15/20 13:30	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-1 **Lab ID: 40201900001** Collected: 01/09/20 12:03 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 13:30	108-88-3	
Trichloroethene	2.9	ug/L	1.0	0.26	1		01/15/20 13:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 13:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:30	75-01-4	
cis-1,2-Dichloroethene	6.9	ug/L	1.0	0.27	1		01/15/20 13:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 13:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 13:30	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:30	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 13:30	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 13:30	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 13:30	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 13:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 13:30	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 13:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 13:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/15/20 13:30	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/15/20 13:30	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/15/20 13:30	2037-26-5	

Sample: MW-2 **Lab ID: 40201900002** Collected: 01/09/20 09:49 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:53	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 13:53	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:53	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 13:53	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:53	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:53	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 13:53	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 13:53	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 13:53	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 13:53	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 13:53	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 13:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 13:53	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:53	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:53	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:53	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 13:53	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 13:53	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 13:53	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-2 **Lab ID: 40201900002** Collected: 01/09/20 09:49 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 13:53	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 13:53	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 13:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 13:53	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 13:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 13:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 13:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 13:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 13:53	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 13:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 13:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 13:53	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 13:53	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 13:53	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 13:53	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 13:53	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 13:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 13:53	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 13:53	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 13:53	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:53	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 13:53	100-42-5	
Tetrachloroethene	23.2	ug/L	1.1	0.33	1		01/15/20 13:53	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 13:53	108-88-3	
Trichloroethene	0.33J	ug/L	1.0	0.26	1		01/15/20 13:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 13:53	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:53	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 13:53	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 13:53	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 13:53	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:53	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 13:53	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 13:53	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 13:53	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 13:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 13:53	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 13:53	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 13:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 13:53	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/15/20 13:53	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 13:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-3 **Lab ID: 40201900003** Collected: 01/10/20 10:14 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:15	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 14:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:15	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 14:15	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:15	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 14:15	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 14:15	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 14:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 14:15	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 14:15	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 14:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 14:15	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:15	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:15	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:15	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 14:15	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 14:15	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 14:15	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 14:15	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 14:15	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 14:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 14:15	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 14:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 14:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 14:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 14:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 14:15	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 14:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 14:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 14:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 14:15	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 14:15	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 14:15	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 14:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 14:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 14:15	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 14:15	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 14:15	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:15	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 14:15	100-42-5	
Tetrachloroethene	0.67J	ug/L	1.1	0.33	1		01/15/20 14:15	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-3 **Lab ID: 40201900003** Collected: 01/10/20 10:14 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 14:15	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 14:15	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:15	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 14:15	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 14:15	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 14:15	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:15	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 14:15	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:15	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 14:15	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 14:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 14:15	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 14:15	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 14:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/15/20 14:15	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/15/20 14:15	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/15/20 14:15	2037-26-5	

Sample: MW-4 **Lab ID: 40201900004** Collected: 01/09/20 15:14 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 14:38	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 14:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 14:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 14:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 14:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 14:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 14:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 14:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 14:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:38	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 14:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 14:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 14:38	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-4 **Lab ID: 40201900004** Collected: 01/09/20 15:14 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 14:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 14:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 14:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 14:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 14:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 14:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 14:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 14:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 14:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 14:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 14:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 14:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 14:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 14:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 14:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 14:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 14:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 14:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 14:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 14:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 14:38	100-42-5	
Tetrachloroethene	2.2	ug/L	1.1	0.33	1		01/15/20 14:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 14:38	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 14:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:38	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 14:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 14:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 14:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:38	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 14:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 14:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 14:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 14:38	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 14:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 14:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 14:38	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/15/20 14:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/15/20 14:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-5 **Lab ID: 40201900005** Collected: 01/09/20 14:01 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 15:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 15:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 15:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 15:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 15:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 15:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 15:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 15:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 15:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 15:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 15:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 15:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 15:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 15:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 15:00	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 15:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 15:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 15:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 15:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 15:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 15:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 15:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 15:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 15:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 15:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 15:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 15:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 15:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 15:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 15:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 15:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 15:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 15:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 15:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 15:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 15:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 15:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 15:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 15:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 15:00	100-42-5	
Tetrachloroethene	2.0	ug/L	1.1	0.33	1		01/15/20 15:00	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-5 **Lab ID: 40201900005** Collected: 01/09/20 14:01 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 15:00	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 15:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 15:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 15:00	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 15:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 15:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 15:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 15:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 15:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 15:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 15:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 15:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 15:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 15:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 15:00	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/15/20 15:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/15/20 15:00	2037-26-5	

Sample: MW-6 **Lab ID: 40201900006** Collected: 01/10/20 12:53 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		01/16/20 14:19	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		01/16/20 14:19	71-55-6	
1,1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		01/16/20 14:19	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		01/16/20 14:19	79-00-5	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		01/16/20 14:19	75-34-3	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		01/16/20 14:19	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		01/16/20 14:19	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		01/16/20 14:19	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		01/16/20 14:19	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		01/16/20 14:19	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		01/16/20 14:19	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		01/16/20 14:19	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		01/16/20 14:19	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		01/16/20 14:19	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		01/16/20 14:19	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		01/16/20 14:19	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		01/16/20 14:19	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		01/16/20 14:19	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		01/16/20 14:19	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-6 **Lab ID: 40201900006** Collected: 01/10/20 12:53 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		01/16/20 14:19	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		01/16/20 14:19	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		01/16/20 14:19	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		01/16/20 14:19	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		01/16/20 14:19	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		01/16/20 14:19	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		01/16/20 14:19	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		01/16/20 14:19	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		01/16/20 14:19	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		01/16/20 14:19	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		01/16/20 14:19	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		01/16/20 14:19	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		01/16/20 14:19	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		01/16/20 14:19	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		01/16/20 14:19	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		01/16/20 14:19	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		01/16/20 14:19	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		01/16/20 14:19	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		01/16/20 14:19	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		01/16/20 14:19	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		01/16/20 14:19	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		01/16/20 14:19	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		01/16/20 14:19	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		01/16/20 14:19	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		01/16/20 14:19	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		01/16/20 14:19	100-42-5	
Tetrachloroethene	360	ug/L	5.4	1.6	5		01/16/20 14:19	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		01/16/20 14:19	108-88-3	
Trichloroethene	23.0	ug/L	5.0	1.3	5		01/16/20 14:19	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		01/16/20 14:19	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		01/16/20 14:19	75-01-4	
cis-1,2-Dichloroethene	30.3	ug/L	5.0	1.4	5		01/16/20 14:19	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		01/16/20 14:19	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		01/16/20 14:19	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		01/16/20 14:19	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		01/16/20 14:19	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		01/16/20 14:19	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		01/16/20 14:19	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		01/16/20 14:19	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		01/16/20 14:19	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		01/16/20 14:19	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		01/16/20 14:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		5		01/16/20 14:19	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		5		01/16/20 14:19	1868-53-7	
Toluene-d8 (S)	92	%	70-130		5		01/16/20 14:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-7 **Lab ID: 40201900007** Collected: 01/09/20 11:26 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 15:45	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 15:45	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:45	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 15:45	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 15:45	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 15:45	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 15:45	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 15:45	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 15:45	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 15:45	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 15:45	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 15:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 15:45	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:45	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:45	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 15:45	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 15:45	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 15:45	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 15:45	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 15:45	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 15:45	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 15:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 15:45	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 15:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 15:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 15:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 15:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 15:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 15:45	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 15:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 15:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 15:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 15:45	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 15:45	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 15:45	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 15:45	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 15:45	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 15:45	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 15:45	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 15:45	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 15:45	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 15:45	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 15:45	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 15:45	100-42-5	
Tetrachloroethene	131	ug/L	1.1	0.33	1		01/15/20 15:45	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-7 **Lab ID: 40201900007** Collected: 01/09/20 11:26 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 15:45	108-88-3	
Trichloroethene	12.1	ug/L	1.0	0.26	1		01/15/20 15:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 15:45	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 15:45	75-01-4	
cis-1,2-Dichloroethene	30.8	ug/L	1.0	0.27	1		01/15/20 15:45	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 15:45	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 15:45	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 15:45	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 15:45	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 15:45	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 15:45	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 15:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 15:45	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 15:45	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 15:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 15:45	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		01/15/20 15:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/15/20 15:45	2037-26-5	

Sample: MW-8 **Lab ID: 40201900008** Collected: 01/09/20 10:49 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:08	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 16:08	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:08	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 16:08	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:08	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:08	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 16:08	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 16:08	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 16:08	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 16:08	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 16:08	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 16:08	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 16:08	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:08	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:08	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:08	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 16:08	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 16:08	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 16:08	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-8 **Lab ID: 40201900008** Collected: 01/09/20 10:49 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 16:08	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 16:08	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 16:08	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 16:08	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 16:08	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 16:08	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 16:08	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 16:08	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 16:08	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 16:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 16:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 16:08	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 16:08	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 16:08	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 16:08	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 16:08	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 16:08	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:08	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 16:08	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 16:08	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 16:08	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:08	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 16:08	100-42-5	
Tetrachloroethene	8.2	ug/L	1.1	0.33	1		01/15/20 16:08	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 16:08	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 16:08	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 16:08	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:08	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 16:08	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 16:08	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 16:08	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:08	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 16:08	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 16:08	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 16:08	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 16:08	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 16:08	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 16:08	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 16:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		01/15/20 16:08	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/15/20 16:08	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-9 **Lab ID: 40201900009** Collected: 01/09/20 13:54 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:30	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 16:30	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:30	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 16:30	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:30	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 16:30	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 16:30	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 16:30	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 16:30	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 16:30	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 16:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 16:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:30	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 16:30	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 16:30	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 16:30	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 16:30	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 16:30	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 16:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 16:30	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 16:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 16:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 16:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 16:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 16:30	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 16:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 16:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 16:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 16:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 16:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 16:30	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 16:30	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 16:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 16:30	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 16:30	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 16:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 16:30	100-42-5	
Tetrachloroethene	184	ug/L	1.1	0.33	1		01/15/20 16:30	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-9 **Lab ID: 40201900009** Collected: 01/09/20 13:54 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	0.64J	ug/L	5.0	0.17	1		01/15/20 16:30	108-88-3	
Trichloroethene	19.8	ug/L	1.0	0.26	1		01/15/20 16:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 16:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:30	75-01-4	
cis-1,2-Dichloroethene	24.3	ug/L	1.0	0.27	1		01/15/20 16:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 16:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 16:30	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:30	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 16:30	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 16:30	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 16:30	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 16:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 16:30	98-06-6	
trans-1,2-Dichloroethene	1.9J	ug/L	3.6	1.1	1		01/15/20 16:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 16:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 16:30	460-00-4	pH
Dibromofluoromethane (S)	105	%	70-130		1		01/15/20 16:30	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/15/20 16:30	2037-26-5	

Sample: MW-10 **Lab ID: 40201900010** Collected: 01/09/20 14:05 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 17:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 17:38	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 17:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 17:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 17:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 17:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 17:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 17:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 17:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 17:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 17:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 17:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:38	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 17:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 17:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 17:38	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-10 **Lab ID: 40201900010** Collected: 01/09/20 14:05 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 17:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 17:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 17:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 17:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 17:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 17:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 17:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 17:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 17:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 17:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 17:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 17:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 17:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 17:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 17:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 17:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 17:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 17:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 17:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 17:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 17:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 17:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 17:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 17:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 17:38	100-42-5	
Tetrachloroethene	19.1	ug/L	1.1	0.33	1		01/15/20 17:38	127-18-4	
Toluene	0.30J	ug/L	5.0	0.17	1		01/15/20 17:38	108-88-3	
Trichloroethene	1.1	ug/L	1.0	0.26	1		01/15/20 17:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 17:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 17:38	75-01-4	
cis-1,2-Dichloroethene	0.30J	ug/L	1.0	0.27	1		01/15/20 17:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 17:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 17:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:38	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 17:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 17:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 17:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 17:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 17:38	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 17:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 17:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		01/15/20 17:38	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 17:38	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 17:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-11 **Lab ID: 40201900011** Collected: 01/09/20 13:30 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:53	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 16:53	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:53	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 16:53	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 16:53	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:53	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 16:53	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 16:53	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 16:53	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 16:53	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 16:53	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 16:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 16:53	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:53	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:53	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 16:53	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 16:53	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 16:53	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 16:53	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 16:53	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 16:53	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 16:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 16:53	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 16:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 16:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 16:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 16:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 16:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 16:53	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 16:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 16:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 16:53	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 16:53	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 16:53	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 16:53	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 16:53	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 16:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 16:53	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 16:53	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 16:53	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 16:53	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 16:53	100-42-5	
Tetrachloroethene	37.7	ug/L	1.1	0.33	1		01/15/20 16:53	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-11 **Lab ID: 40201900011** Collected: 01/09/20 13:30 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 16:53	108-88-3	
Trichloroethene	2.3	ug/L	1.0	0.26	1		01/15/20 16:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 16:53	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 16:53	75-01-4	
cis-1,2-Dichloroethene	3.1	ug/L	1.0	0.27	1		01/15/20 16:53	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 16:53	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 16:53	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 16:53	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 16:53	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 16:53	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 16:53	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 16:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 16:53	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 16:53	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 16:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		01/15/20 16:53	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 16:53	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 16:53	2037-26-5	

Sample: MW-12 **Lab ID: 40201900012** Collected: 01/09/20 15:17 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 18:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 18:00	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 18:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 18:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 18:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 18:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 18:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 18:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 18:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 18:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 18:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 18:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 18:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 18:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 18:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 18:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 18:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 18:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 18:00	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-12 **Lab ID: 40201900012** Collected: 01/09/20 15:17 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 18:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 18:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 18:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 18:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 18:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 18:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 18:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 18:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 18:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 18:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 18:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 18:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 18:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 18:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 18:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 18:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 18:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 18:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 18:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 18:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 18:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 18:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 18:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 18:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 18:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 18:00	100-42-5	
Tetrachloroethene	54.9	ug/L	1.1	0.33	1		01/15/20 18:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 18:00	108-88-3	
Trichloroethene	6.0	ug/L	1.0	0.26	1		01/15/20 18:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 18:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 18:00	75-01-4	
cis-1,2-Dichloroethene	8.6	ug/L	1.0	0.27	1		01/15/20 18:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 18:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 18:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 18:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 18:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 18:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 18:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 18:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 18:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 18:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 18:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		01/15/20 18:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 18:00	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 18:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-13 **Lab ID: 40201900013** Collected: 01/09/20 10:41 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 17:15	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 17:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:15	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 17:15	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 17:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 17:15	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 17:15	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 17:15	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 17:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 17:15	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 17:15	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 17:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 17:15	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:15	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:15	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 17:15	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 17:15	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 17:15	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 17:15	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 17:15	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 17:15	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 17:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 17:15	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 17:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 17:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 17:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 17:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 17:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 17:15	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 17:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 17:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 17:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 17:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 17:15	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 17:15	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 17:15	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 17:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 17:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 17:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 17:15	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 17:15	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 17:15	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 17:15	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 17:15	100-42-5	
Tetrachloroethene	71.5	ug/L	1.1	0.33	1		01/15/20 17:15	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-13 **Lab ID: 40201900013** Collected: 01/09/20 10:41 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 17:15	108-88-3	
Trichloroethene	4.1	ug/L	1.0	0.26	1		01/15/20 17:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 17:15	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 17:15	75-01-4	
cis-1,2-Dichloroethene	5.3	ug/L	1.0	0.27	1		01/15/20 17:15	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 17:15	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 17:15	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 17:15	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 17:15	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 17:15	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 17:15	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 17:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 17:15	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 17:15	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 17:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/15/20 17:15	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 17:15	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 17:15	2037-26-5	

Sample: MW-14 **Lab ID: 40201900014** Collected: 01/09/20 09:42 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:36	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 13:36	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:36	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 13:36	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:36	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:36	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 13:36	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 13:36	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 13:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 13:36	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 13:36	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 13:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 13:36	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:36	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:36	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:36	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 13:36	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 13:36	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 13:36	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-14 **Lab ID: 40201900014** Collected: 01/09/20 09:42 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 13:36	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 13:36	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 13:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 13:36	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 13:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 13:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 13:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 13:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 13:36	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 13:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 13:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 13:36	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 13:36	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 13:36	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 13:36	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 13:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 13:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 13:36	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 13:36	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 13:36	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:36	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 13:36	100-42-5	
Tetrachloroethene	7.4	ug/L	1.1	0.33	1		01/15/20 13:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 13:36	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 13:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 13:36	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:36	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 13:36	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 13:36	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 13:36	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:36	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 13:36	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 13:36	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 13:36	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 13:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 13:36	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 13:36	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 13:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/15/20 13:36	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		01/15/20 13:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		01/15/20 13:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-15 **Lab ID: 40201900015** Collected: 01/10/20 12:16 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 12:54	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/16/20 12:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 12:54	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/16/20 12:54	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 12:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/16/20 12:54	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/16/20 12:54	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/16/20 12:54	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/16/20 12:54	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/16/20 12:54	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/16/20 12:54	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/16/20 12:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/16/20 12:54	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 12:54	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 12:54	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/16/20 12:54	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/16/20 12:54	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/16/20 12:54	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/16/20 12:54	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/16/20 12:54	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/16/20 12:54	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/16/20 12:54	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/16/20 12:54	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/16/20 12:54	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/16/20 12:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/16/20 12:54	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/16/20 12:54	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/16/20 12:54	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/16/20 12:54	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/16/20 12:54	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 12:54	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/16/20 12:54	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/16/20 12:54	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/16/20 12:54	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/16/20 12:54	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/16/20 12:54	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/16/20 12:54	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/16/20 12:54	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/16/20 12:54	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/16/20 12:54	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/16/20 12:54	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/16/20 12:54	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/16/20 12:54	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/16/20 12:54	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/16/20 12:54	100-42-5	
Tetrachloroethene	0.55J	ug/L	1.1	0.33	1		01/16/20 12:54	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-15 **Lab ID: 40201900015** Collected: 01/10/20 12:16 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/16/20 12:54	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/16/20 12:54	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/16/20 12:54	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/16/20 12:54	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/16/20 12:54	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/16/20 12:54	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/16/20 12:54	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 12:54	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/16/20 12:54	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/16/20 12:54	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/16/20 12:54	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/16/20 12:54	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/16/20 12:54	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/16/20 12:54	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/16/20 12:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		01/16/20 12:54	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/16/20 12:54	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		01/16/20 12:54	2037-26-5	

Sample: MW-16 **Lab ID: 40201900016** Collected: 01/10/20 11:37 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 14:00	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 14:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 14:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 14:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 14:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 14:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 14:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 14:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 14:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 14:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 14:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 14:00	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: MW-16 **Lab ID: 40201900016** Collected: 01/10/20 11:37 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 14:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 14:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 14:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 14:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 14:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 14:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 14:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 14:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 14:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 14:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 14:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 14:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 14:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 14:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 14:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 14:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 14:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 14:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 14:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 14:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 14:00	100-42-5	
Tetrachloroethene	3.4	ug/L	1.1	0.33	1		01/15/20 14:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 14:00	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 14:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:00	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 14:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 14:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 14:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 14:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 14:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 14:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 14:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 14:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 14:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		01/15/20 14:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 14:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		01/15/20 14:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-17 Lab ID: 40201900017 Collected: 01/10/20 11:03 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:23	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 14:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:23	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 14:23	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 14:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:23	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 14:23	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 14:23	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 14:23	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 14:23	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 14:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 14:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 14:23	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:23	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:23	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 14:23	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 14:23	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 14:23	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 14:23	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 14:23	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 14:23	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 14:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 14:23	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 14:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 14:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 14:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 14:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 14:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 14:23	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 14:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 14:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 14:23	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 14:23	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 14:23	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 14:23	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 14:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 14:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 14:23	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 14:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 14:23	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 14:23	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 14:23	100-42-5	
Tetrachloroethene	128	ug/L	1.1	0.33	1		01/15/20 14:23	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: MW-17 **Lab ID: 40201900017** Collected: 01/10/20 11:03 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 14:23	108-88-3	
Trichloroethene	7.2	ug/L	1.0	0.26	1		01/15/20 14:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 14:23	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 14:23	75-01-4	
cis-1,2-Dichloroethene	11.1	ug/L	1.0	0.27	1		01/15/20 14:23	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 14:23	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 14:23	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 14:23	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 14:23	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 14:23	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 14:23	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 14:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 14:23	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 14:23	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 14:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/15/20 14:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/15/20 14:23	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		01/15/20 14:23	2037-26-5	

Sample: DUP-1 **Lab ID: 40201900018** Collected: 01/09/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:15	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/16/20 13:15	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:15	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/16/20 13:15	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:15	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/16/20 13:15	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/16/20 13:15	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/16/20 13:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/16/20 13:15	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/16/20 13:15	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/16/20 13:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/16/20 13:15	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:15	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:15	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:15	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/16/20 13:15	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/16/20 13:15	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/16/20 13:15	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: DUP-1 **Lab ID:** 40201900018 Collected: 01/09/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/16/20 13:15	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/16/20 13:15	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/16/20 13:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/16/20 13:15	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/16/20 13:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/16/20 13:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/16/20 13:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/16/20 13:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/16/20 13:15	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/16/20 13:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/16/20 13:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/16/20 13:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/16/20 13:15	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/16/20 13:15	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/16/20 13:15	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/16/20 13:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/16/20 13:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/16/20 13:15	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/16/20 13:15	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/16/20 13:15	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:15	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/16/20 13:15	100-42-5	
Tetrachloroethene	16.9	ug/L	1.1	0.33	1		01/16/20 13:15	127-18-4	
Toluene	0.24J	ug/L	5.0	0.17	1		01/16/20 13:15	108-88-3	
Trichloroethene	0.83J	ug/L	1.0	0.26	1		01/16/20 13:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/16/20 13:15	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:15	75-01-4	
cis-1,2-Dichloroethene	0.29J	ug/L	1.0	0.27	1		01/16/20 13:15	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/16/20 13:15	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/16/20 13:15	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:15	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/16/20 13:15	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/16/20 13:15	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/16/20 13:15	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/16/20 13:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/16/20 13:15	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/16/20 13:15	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/16/20 13:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		01/16/20 13:15	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		01/16/20 13:15	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/16/20 13:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: DUP-2 **Lab ID: 40201900019** Collected: 01/10/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:36	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/16/20 13:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:36	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/16/20 13:36	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:36	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:36	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/16/20 13:36	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/16/20 13:36	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/16/20 13:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/16/20 13:36	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/16/20 13:36	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/16/20 13:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/16/20 13:36	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:36	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:36	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:36	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/16/20 13:36	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/16/20 13:36	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/16/20 13:36	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/16/20 13:36	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/16/20 13:36	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/16/20 13:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/16/20 13:36	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/16/20 13:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/16/20 13:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/16/20 13:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/16/20 13:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/16/20 13:36	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/16/20 13:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/16/20 13:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/16/20 13:36	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/16/20 13:36	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/16/20 13:36	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/16/20 13:36	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/16/20 13:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/16/20 13:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/16/20 13:36	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/16/20 13:36	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/16/20 13:36	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:36	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/16/20 13:36	100-42-5	
Tetrachloroethene	0.53J	ug/L	1.1	0.33	1		01/16/20 13:36	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: DUP-2 **Lab ID: 40201900019** Collected: 01/10/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/16/20 13:36	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/16/20 13:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/16/20 13:36	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:36	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/16/20 13:36	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/16/20 13:36	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/16/20 13:36	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:36	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/16/20 13:36	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/16/20 13:36	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/16/20 13:36	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/16/20 13:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/16/20 13:36	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/16/20 13:36	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/16/20 13:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		01/16/20 13:36	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		01/16/20 13:36	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		01/16/20 13:36	2037-26-5	

Sample: PZ-1 **Lab ID: 40201900020** Collected: 01/09/20 13:05 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:58	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/16/20 13:58	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:58	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/16/20 13:58	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/16/20 13:58	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:58	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/16/20 13:58	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/16/20 13:58	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/16/20 13:58	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/16/20 13:58	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/16/20 13:58	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/16/20 13:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/16/20 13:58	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:58	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:58	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/16/20 13:58	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/16/20 13:58	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/16/20 13:58	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/16/20 13:58	142-28-9	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: PZ-1 **Lab ID: 40201900020** Collected: 01/09/20 13:05 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/16/20 13:58	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/16/20 13:58	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/16/20 13:58	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/16/20 13:58	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/16/20 13:58	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/16/20 13:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/16/20 13:58	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/16/20 13:58	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/16/20 13:58	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/16/20 13:58	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:58	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:58	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/16/20 13:58	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/16/20 13:58	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/16/20 13:58	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/16/20 13:58	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/16/20 13:58	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/16/20 13:58	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/16/20 13:58	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/16/20 13:58	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:58	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/16/20 13:58	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/16/20 13:58	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/16/20 13:58	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/16/20 13:58	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/16/20 13:58	100-42-5	
Tetrachloroethene	0.36J	ug/L	1.1	0.33	1		01/16/20 13:58	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/16/20 13:58	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/16/20 13:58	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/16/20 13:58	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/16/20 13:58	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/16/20 13:58	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/16/20 13:58	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/16/20 13:58	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/16/20 13:58	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/16/20 13:58	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/16/20 13:58	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/16/20 13:58	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/16/20 13:58	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/16/20 13:58	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/16/20 13:58	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/16/20 13:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		01/16/20 13:58	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/16/20 13:58	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/16/20 13:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: PZ-3 **Lab ID: 40201900021** Collected: 01/09/20 11:09 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 10:42	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 10:42	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 10:42	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 10:42	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 10:42	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 10:42	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 10:42	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 10:42	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 10:42	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 10:42	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 10:42	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 10:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 10:42	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 10:42	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 10:42	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 10:42	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 10:42	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 10:42	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 10:42	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 10:42	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 10:42	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 10:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 10:42	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 10:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 10:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 10:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 10:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 10:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 10:42	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 10:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 10:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 10:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 10:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 10:42	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 10:42	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 10:42	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 10:42	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 10:42	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 10:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 10:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 10:42	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 10:42	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 10:42	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 10:42	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 10:42	100-42-5	
Tetrachloroethene	106	ug/L	1.1	0.33	1		01/15/20 10:42	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: PZ-3 **Lab ID: 40201900021** Collected: 01/09/20 11:09 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 10:42	108-88-3	
Trichloroethene	1.4	ug/L	1.0	0.26	1		01/15/20 10:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 10:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 10:42	75-01-4	
cis-1,2-Dichloroethene	2.0	ug/L	1.0	0.27	1		01/15/20 10:42	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 10:42	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 10:42	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 10:42	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 10:42	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 10:42	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 10:42	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 10:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 10:42	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 10:42	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 10:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		01/15/20 10:42	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/15/20 10:42	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		01/15/20 10:42	2037-26-5	

Sample: TRIP **Lab ID: 40201900022** Collected: 01/10/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 09:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 09:38	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 09:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 09:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 09:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 09:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 09:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 09:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 09:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 09:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 09:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 09:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 09:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 09:38	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 09:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 09:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 09:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 09:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 09:38	142-28-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: TRIP **Lab ID:** 40201900022 Collected: 01/10/20 00:00 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 09:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 09:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 09:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 09:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 09:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 09:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 09:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 09:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 09:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 09:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 09:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 09:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 09:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 09:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 09:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 09:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 09:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 09:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 09:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 09:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 09:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 09:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 09:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 09:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 09:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 09:38	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/15/20 09:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 09:38	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/15/20 09:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 09:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 09:38	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 09:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 09:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 09:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 09:38	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 09:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 09:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 09:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 09:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 09:38	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 09:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 09:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		01/15/20 09:38	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		01/15/20 09:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/15/20 09:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Sample: PZ-2 **Lab ID: 40201900023** Collected: 01/09/20 14:22 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:34	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/15/20 13:34	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:34	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/15/20 13:34	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/15/20 13:34	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:34	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/15/20 13:34	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/15/20 13:34	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/15/20 13:34	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/15/20 13:34	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/15/20 13:34	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/15/20 13:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/15/20 13:34	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:34	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:34	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/15/20 13:34	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/15/20 13:34	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/15/20 13:34	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/15/20 13:34	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/15/20 13:34	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/15/20 13:34	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/15/20 13:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/15/20 13:34	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/15/20 13:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/15/20 13:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/15/20 13:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/15/20 13:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/15/20 13:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/15/20 13:34	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/15/20 13:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/15/20 13:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/15/20 13:34	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/15/20 13:34	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/15/20 13:34	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/15/20 13:34	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/15/20 13:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/15/20 13:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/15/20 13:34	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/15/20 13:34	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/15/20 13:34	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/15/20 13:34	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/15/20 13:34	100-42-5	
Tetrachloroethene	7.5	ug/L	1.1	0.33	1		01/15/20 13:34	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Sample: PZ-2 **Lab ID: 40201900023** Collected: 01/09/20 14:22 Received: 01/13/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		01/15/20 13:34	108-88-3	
Trichloroethene	0.30J	ug/L	1.0	0.26	1		01/15/20 13:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/15/20 13:34	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/15/20 13:34	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/15/20 13:34	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/15/20 13:34	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/15/20 13:34	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/15/20 13:34	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/15/20 13:34	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/15/20 13:34	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/15/20 13:34	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/15/20 13:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/15/20 13:34	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/15/20 13:34	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/15/20 13:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		01/15/20 13:34	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		01/15/20 13:34	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/15/20 13:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

QC Batch: 345480 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201900001, 40201900002, 40201900003, 40201900004, 40201900005, 40201900007, 40201900008, 40201900009, 40201900010, 40201900011, 40201900012, 40201900013

METHOD BLANK: 2003777 Matrix: Water
Associated Lab Samples: 40201900001, 40201900002, 40201900003, 40201900004, 40201900005, 40201900007, 40201900008, 40201900009, 40201900010, 40201900011, 40201900012, 40201900013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/15/20 07:53	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/15/20 07:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/15/20 07:53	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/15/20 07:53	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/15/20 07:53	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/15/20 07:53	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/15/20 07:53	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/15/20 07:53	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/15/20 07:53	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/15/20 07:53	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/15/20 07:53	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/15/20 07:53	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/15/20 07:53	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/15/20 07:53	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/15/20 07:53	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/15/20 07:53	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/15/20 07:53	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/15/20 07:53	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/15/20 07:53	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/15/20 07:53	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/15/20 07:53	
2-Chlorotoluene	ug/L	<0.93	5.0	01/15/20 07:53	
4-Chlorotoluene	ug/L	<0.76	2.5	01/15/20 07:53	
Benzene	ug/L	<0.25	1.0	01/15/20 07:53	
Bromobenzene	ug/L	<0.24	1.0	01/15/20 07:53	
Bromochloromethane	ug/L	<0.36	5.0	01/15/20 07:53	
Bromodichloromethane	ug/L	<0.36	1.2	01/15/20 07:53	
Bromoform	ug/L	<4.0	13.2	01/15/20 07:53	
Bromomethane	ug/L	<0.97	5.0	01/15/20 07:53	
Carbon tetrachloride	ug/L	<0.17	1.0	01/15/20 07:53	
Chlorobenzene	ug/L	<0.71	2.4	01/15/20 07:53	
Chloroethane	ug/L	<1.3	5.0	01/15/20 07:53	
Chloroform	ug/L	<1.3	5.0	01/15/20 07:53	
Chloromethane	ug/L	<2.2	7.3	01/15/20 07:53	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/15/20 07:53	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/15/20 07:53	
Dibromochloromethane	ug/L	<2.6	8.7	01/15/20 07:53	
Dibromomethane	ug/L	<0.94	3.1	01/15/20 07:53	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/15/20 07:53	
Diisopropyl ether	ug/L	<1.9	6.3	01/15/20 07:53	

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.

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

METHOD BLANK: 2003777

Matrix: Water

Associated Lab Samples: 40201900001, 40201900002, 40201900003, 40201900004, 40201900005, 40201900007, 40201900008, 40201900009, 40201900010, 40201900011, 40201900012, 40201900013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	01/15/20 07:53	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/15/20 07:53	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/15/20 07:53	
m&p-Xylene	ug/L	<0.47	2.0	01/15/20 07:53	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/15/20 07:53	
Methylene Chloride	ug/L	<0.58	5.0	01/15/20 07:53	
n-Butylbenzene	ug/L	<0.71	2.4	01/15/20 07:53	
n-Propylbenzene	ug/L	<0.81	5.0	01/15/20 07:53	
Naphthalene	ug/L	<1.2	5.0	01/15/20 07:53	
o-Xylene	ug/L	<0.26	1.0	01/15/20 07:53	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/15/20 07:53	
sec-Butylbenzene	ug/L	<0.85	5.0	01/15/20 07:53	
Styrene	ug/L	<0.47	1.6	01/15/20 07:53	
tert-Butylbenzene	ug/L	<0.30	1.0	01/15/20 07:53	
Tetrachloroethene	ug/L	<0.33	1.1	01/15/20 07:53	
Toluene	ug/L	<0.17	5.0	01/15/20 07:53	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/15/20 07:53	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/15/20 07:53	
Trichloroethene	ug/L	<0.26	1.0	01/15/20 07:53	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/15/20 07:53	
Vinyl chloride	ug/L	<0.17	1.0	01/15/20 07:53	
4-Bromofluorobenzene (S)	%	88	70-130	01/15/20 07:53	
Dibromofluoromethane (S)	%	101	70-130	01/15/20 07:53	
Toluene-d8 (S)	%	96	70-130	01/15/20 07:53	

LABORATORY CONTROL SAMPLE: 2003778

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	44.8	90	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	73-150	
1,1-Dichloroethene	ug/L	50	49.2	98	73-138	
1,2,4-Trichlorobenzene	ug/L	50	41.2	82	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.4	77	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	75-140	
1,2-Dichloropropane	ug/L	50	51.5	103	73-135	
1,3-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

LABORATORY CONTROL SAMPLE: 2003778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	47.0	94	68-129	
Bromomethane	ug/L	50	36.4	73	18-159	
Carbon tetrachloride	ug/L	50	48.9	98	70-130	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	47.3	95	53-147	
Chloroform	ug/L	50	47.3	95	74-136	
Chloromethane	ug/L	50	34.7	69	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Dibromochloromethane	ug/L	50	50.1	100	70-130	
Dichlorodifluoromethane	ug/L	50	34.7	69	10-130	
Ethylbenzene	ug/L	50	49.9	100	80-124	
Isopropylbenzene (Cumene)	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	40.1	80	54-137	
Methylene Chloride	ug/L	50	46.9	94	73-138	
o-Xylene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.7	103	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	51.3	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	70-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	52.4	105	76-147	
Vinyl chloride	ug/L	50	44.4	89	51-120	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

QC Batch: 345481 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201900021, 40201900022, 40201900023

METHOD BLANK: 2003779 Matrix: Water
Associated Lab Samples: 40201900021, 40201900022, 40201900023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/15/20 07:51	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/15/20 07:51	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/15/20 07:51	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/15/20 07:51	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/15/20 07:51	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/15/20 07:51	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/15/20 07:51	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/15/20 07:51	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/15/20 07:51	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/15/20 07:51	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/15/20 07:51	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/15/20 07:51	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/15/20 07:51	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/15/20 07:51	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/15/20 07:51	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/15/20 07:51	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/15/20 07:51	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/15/20 07:51	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/15/20 07:51	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/15/20 07:51	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/15/20 07:51	
2-Chlorotoluene	ug/L	<0.93	5.0	01/15/20 07:51	
4-Chlorotoluene	ug/L	<0.76	2.5	01/15/20 07:51	
Benzene	ug/L	<0.25	1.0	01/15/20 07:51	
Bromobenzene	ug/L	<0.24	1.0	01/15/20 07:51	
Bromochloromethane	ug/L	<0.36	5.0	01/15/20 07:51	
Bromodichloromethane	ug/L	<0.36	1.2	01/15/20 07:51	
Bromoform	ug/L	<4.0	13.2	01/15/20 07:51	
Bromomethane	ug/L	<0.97	5.0	01/15/20 07:51	
Carbon tetrachloride	ug/L	<0.17	1.0	01/15/20 07:51	
Chlorobenzene	ug/L	<0.71	2.4	01/15/20 07:51	
Chloroethane	ug/L	<1.3	5.0	01/15/20 07:51	
Chloroform	ug/L	<1.3	5.0	01/15/20 07:51	
Chloromethane	ug/L	<2.2	7.3	01/15/20 07:51	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/15/20 07:51	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/15/20 07:51	
Dibromochloromethane	ug/L	<2.6	8.7	01/15/20 07:51	
Dibromomethane	ug/L	<0.94	3.1	01/15/20 07:51	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/15/20 07:51	
Diisopropyl ether	ug/L	<1.9	6.3	01/15/20 07:51	
Ethylbenzene	ug/L	<0.22	1.0	01/15/20 07:51	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

METHOD BLANK: 2003779

Matrix: Water

Associated Lab Samples: 40201900021, 40201900022, 40201900023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/15/20 07:51	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/15/20 07:51	
m&p-Xylene	ug/L	<0.47	2.0	01/15/20 07:51	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/15/20 07:51	
Methylene Chloride	ug/L	<0.58	5.0	01/15/20 07:51	
n-Butylbenzene	ug/L	<0.71	2.4	01/15/20 07:51	
n-Propylbenzene	ug/L	<0.81	5.0	01/15/20 07:51	
Naphthalene	ug/L	<1.2	5.0	01/15/20 07:51	
o-Xylene	ug/L	<0.26	1.0	01/15/20 07:51	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/15/20 07:51	
sec-Butylbenzene	ug/L	<0.85	5.0	01/15/20 07:51	
Styrene	ug/L	<0.47	1.6	01/15/20 07:51	
tert-Butylbenzene	ug/L	<0.30	1.0	01/15/20 07:51	
Tetrachloroethene	ug/L	<0.33	1.1	01/15/20 07:51	
Toluene	ug/L	<0.17	5.0	01/15/20 07:51	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/15/20 07:51	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/15/20 07:51	
Trichloroethene	ug/L	<0.26	1.0	01/15/20 07:51	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/15/20 07:51	
Vinyl chloride	ug/L	<0.17	1.0	01/15/20 07:51	
4-Bromofluorobenzene (S)	%	94	70-130	01/15/20 07:51	
Dibromofluoromethane (S)	%	94	70-130	01/15/20 07:51	
Toluene-d8 (S)	%	95	70-130	01/15/20 07:51	

LABORATORY CONTROL SAMPLE: 2003780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	43.6	87	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	66.1	132	73-150	
1,1-Dichloroethene	ug/L	50	51.7	103	73-138	
1,2,4-Trichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dichloroethane	ug/L	50	55.4	111	75-140	
1,2-Dichloropropane	ug/L	50	56.8	114	73-135	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.9	98	70-130	
Benzene	ug/L	50	50.9	102	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	51.4	103	68-129	
Bromomethane	ug/L	50	35.0	70	18-159	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

LABORATORY CONTROL SAMPLE: 2003780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	47.1	94	70-130	
Chlorobenzene	ug/L	50	53.6	107	70-130	
Chloroethane	ug/L	50	56.8	114	53-147	
Chloroform	ug/L	50	48.5	97	74-136	
Chloromethane	ug/L	50	47.4	95	29-115	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	35.0	70	10-130	
Ethylbenzene	ug/L	50	50.2	100	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.1	104	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	54-137	
Methylene Chloride	ug/L	50	52.1	104	73-138	
o-Xylene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	56.5	113	70-130	
Toluene	ug/L	50	51.3	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.7	89	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	76-147	
Vinyl chloride	ug/L	50	54.7	109	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2003892 2003893

Parameter	Units	2003892		2003893		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40201900021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.7	50.9	99	102	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	42.3	43.3	85	87	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.0	49.8	96	100	70-137	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	66.8	67.3	134	135	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.8	52.4	104	105	73-138	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	51.4	52.3	103	105	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.5	40.7	81	81	58-129	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.4	50.3	97	101	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.9	50.0	100	100	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	55.7	56.7	111	113	75-140	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	57.2	59.6	114	119	71-138	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.2	49.9	100	100	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.0	49.2	100	98	70-130	2	20	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

Parameter	Units	2003892		2003893		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40201900021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	51.2	52.2	102	104	70-130	2	20		
Bromodichloromethane	ug/L	<0.36	50	50	51.3	54.2	103	108	70-130	5	20		
Bromoform	ug/L	<4.0	50	50	48.2	50.7	96	101	68-129	5	20		
Bromomethane	ug/L	<0.97	50	50	38.2	38.3	76	77	15-170	0	20		
Carbon tetrachloride	ug/L	<0.17	50	50	47.7	48.3	95	97	70-130	1	20		
Chlorobenzene	ug/L	<0.71	50	50	54.1	54.0	108	108	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	55.7	55.4	111	111	51-148	0	20		
Chloroform	ug/L	<1.3	50	50	48.8	49.8	98	100	74-136	2	20		
Chloromethane	ug/L	<2.2	50	50	48.3	47.7	97	95	23-115	1	20		
cis-1,2-Dichloroethene	ug/L	2.0	50	50	50.0	50.7	96	97	70-131	1	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.5	52.9	103	106	70-130	3	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.8	51.3	100	103	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	35.2	35.3	70	71	10-132	0	20		
Ethylbenzene	ug/L	<0.22	50	50	49.9	50.7	100	101	80-125	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	52.0	52.9	104	106	70-130	2	20		
m&p-Xylene	ug/L	<0.47	100	100	104	104	104	104	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	52.2	53.1	104	106	51-145	2	20		
Methylene Chloride	ug/L	<0.58	50	50	51.8	51.7	104	103	73-140	0	20		
o-Xylene	ug/L	<0.26	50	50	49.8	50.8	100	102	70-130	2	20		
Styrene	ug/L	<0.47	50	50	51.3	52.3	103	105	70-130	2	20		
Tetrachloroethene	ug/L	106	50	50	163	164	114	116	70-130	1	20		
Toluene	ug/L	<0.17	50	50	51.1	52.1	102	104	80-131	2	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.8	53.9	108	108	73-148	0	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.5	43.6	87	87	70-130	0	20		
Trichloroethene	ug/L	1.4	50	50	55.9	56.9	109	111	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	51.4	53.5	103	107	74-147	4	20		
Vinyl chloride	ug/L	<0.17	50	50	54.1	54.9	108	110	41-129	2	20		
4-Bromofluorobenzene (S)	%						100	99	70-130				
Dibromofluoromethane (S)	%						93	93	70-130				
Toluene-d8 (S)	%						93	95	70-130				

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW

Pace Project No.: 40201900

QC Batch: 345577 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201900014, 40201900016, 40201900017

METHOD BLANK: 2004198 Matrix: Water
Associated Lab Samples: 40201900014, 40201900016, 40201900017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/15/20 10:26	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/15/20 10:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/15/20 10:26	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/15/20 10:26	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/15/20 10:26	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/15/20 10:26	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/15/20 10:26	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/15/20 10:26	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/15/20 10:26	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/15/20 10:26	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/15/20 10:26	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/15/20 10:26	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/15/20 10:26	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/15/20 10:26	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/15/20 10:26	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/15/20 10:26	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/15/20 10:26	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/15/20 10:26	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/15/20 10:26	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/15/20 10:26	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/15/20 10:26	
2-Chlorotoluene	ug/L	<0.93	5.0	01/15/20 10:26	
4-Chlorotoluene	ug/L	<0.76	2.5	01/15/20 10:26	
Benzene	ug/L	<0.25	1.0	01/15/20 10:26	
Bromobenzene	ug/L	<0.24	1.0	01/15/20 10:26	
Bromochloromethane	ug/L	<0.36	5.0	01/15/20 10:26	
Bromodichloromethane	ug/L	<0.36	1.2	01/15/20 10:26	
Bromoform	ug/L	<4.0	13.2	01/15/20 10:26	
Bromomethane	ug/L	<0.97	5.0	01/15/20 10:26	
Carbon tetrachloride	ug/L	<0.17	1.0	01/15/20 10:26	
Chlorobenzene	ug/L	<0.71	2.4	01/15/20 10:26	
Chloroethane	ug/L	<1.3	5.0	01/15/20 10:26	
Chloroform	ug/L	<1.3	5.0	01/15/20 10:26	
Chloromethane	ug/L	<2.2	7.3	01/15/20 10:26	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/15/20 10:26	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/15/20 10:26	
Dibromochloromethane	ug/L	<2.6	8.7	01/15/20 10:26	
Dibromomethane	ug/L	<0.94	3.1	01/15/20 10:26	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/15/20 10:26	
Diisopropyl ether	ug/L	<1.9	6.3	01/15/20 10:26	
Ethylbenzene	ug/L	<0.22	1.0	01/15/20 10:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

METHOD BLANK: 2004198 Matrix: Water
Associated Lab Samples: 40201900014, 40201900016, 40201900017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/15/20 10:26	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/15/20 10:26	
m&p-Xylene	ug/L	<0.47	2.0	01/15/20 10:26	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/15/20 10:26	
Methylene Chloride	ug/L	<0.58	5.0	01/15/20 10:26	
n-Butylbenzene	ug/L	<0.71	2.4	01/15/20 10:26	
n-Propylbenzene	ug/L	<0.81	5.0	01/15/20 10:26	
Naphthalene	ug/L	<1.2	5.0	01/15/20 10:26	
o-Xylene	ug/L	<0.26	1.0	01/15/20 10:26	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/15/20 10:26	
sec-Butylbenzene	ug/L	<0.85	5.0	01/15/20 10:26	
Styrene	ug/L	<0.47	1.6	01/15/20 10:26	
tert-Butylbenzene	ug/L	<0.30	1.0	01/15/20 10:26	
Tetrachloroethene	ug/L	<0.33	1.1	01/15/20 10:26	
Toluene	ug/L	<0.17	5.0	01/15/20 10:26	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/15/20 10:26	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/15/20 10:26	
Trichloroethene	ug/L	<0.26	1.0	01/15/20 10:26	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/15/20 10:26	
Vinyl chloride	ug/L	<0.17	1.0	01/15/20 10:26	
4-Bromofluorobenzene (S)	%	100	70-130	01/15/20 10:26	
Dibromofluoromethane (S)	%	105	70-130	01/15/20 10:26	
Toluene-d8 (S)	%	100	70-130	01/15/20 10:26	

LABORATORY CONTROL SAMPLE: 2004199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.1	120	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	62.0	124	70-130	
1,1,2-Trichloroethane	ug/L	50	55.3	111	70-130	
1,1-Dichloroethane	ug/L	50	60.1	120	73-150	
1,1-Dichloroethene	ug/L	50	54.3	109	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.2	116	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	55.4	111	70-130	
1,2-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,2-Dichloroethane	ug/L	50	58.8	118	75-140	
1,2-Dichloropropane	ug/L	50	60.1	120	73-135	
1,3-Dichlorobenzene	ug/L	50	55.0	110	70-130	
1,4-Dichlorobenzene	ug/L	50	56.4	113	70-130	
Benzene	ug/L	50	58.3	117	70-130	
Bromodichloromethane	ug/L	50	57.0	114	70-130	
Bromoform	ug/L	50	46.5	93	68-129	
Bromomethane	ug/L	50	42.7	85	18-159	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

LABORATORY CONTROL SAMPLE: 2004199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	60.0	120	70-130	
Chlorobenzene	ug/L	50	56.2	112	70-130	
Chloroethane	ug/L	50	59.1	118	53-147	
Chloroform	ug/L	50	57.0	114	74-136	
Chloromethane	ug/L	50	49.6	99	29-115	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	70-130	
Dibromochloromethane	ug/L	50	51.5	103	70-130	
Dichlorodifluoromethane	ug/L	50	40.5	81	10-130	
Ethylbenzene	ug/L	50	58.9	118	80-124	
Isopropylbenzene (Cumene)	ug/L	50	58.1	116	70-130	
m&p-Xylene	ug/L	100	117	117	70-130	
Methyl-tert-butyl ether	ug/L	50	55.8	112	54-137	
Methylene Chloride	ug/L	50	61.7	123	73-138	
o-Xylene	ug/L	50	57.8	116	70-130	
Styrene	ug/L	50	59.6	119	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	56.9	114	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.3	109	73-145	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	70-130	
Trichloroethene	ug/L	50	56.6	113	70-130	
Trichlorofluoromethane	ug/L	50	61.7	123	76-147	
Vinyl chloride	ug/L	50	47.2	94	51-120	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

QC Batch: 345665 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201900006, 40201900015, 40201900018, 40201900019, 40201900020

METHOD BLANK: 2004927 Matrix: Water
Associated Lab Samples: 40201900006, 40201900015, 40201900018, 40201900019, 40201900020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/16/20 09:42	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/16/20 09:42	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/16/20 09:42	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/16/20 09:42	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/16/20 09:42	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/16/20 09:42	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/16/20 09:42	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/16/20 09:42	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/16/20 09:42	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/16/20 09:42	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/16/20 09:42	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/16/20 09:42	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/16/20 09:42	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/16/20 09:42	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/16/20 09:42	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/16/20 09:42	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/16/20 09:42	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/16/20 09:42	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/16/20 09:42	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/16/20 09:42	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/16/20 09:42	
2-Chlorotoluene	ug/L	<0.93	5.0	01/16/20 09:42	
4-Chlorotoluene	ug/L	<0.76	2.5	01/16/20 09:42	
Benzene	ug/L	<0.25	1.0	01/16/20 09:42	
Bromobenzene	ug/L	<0.24	1.0	01/16/20 09:42	
Bromochloromethane	ug/L	<0.36	5.0	01/16/20 09:42	
Bromodichloromethane	ug/L	<0.36	1.2	01/16/20 09:42	
Bromoform	ug/L	<4.0	13.2	01/16/20 09:42	
Bromomethane	ug/L	<0.97	5.0	01/16/20 09:42	
Carbon tetrachloride	ug/L	<0.17	1.0	01/16/20 09:42	
Chlorobenzene	ug/L	<0.71	2.4	01/16/20 09:42	
Chloroethane	ug/L	<1.3	5.0	01/16/20 09:42	
Chloroform	ug/L	<1.3	5.0	01/16/20 09:42	
Chloromethane	ug/L	<2.2	7.3	01/16/20 09:42	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/16/20 09:42	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/16/20 09:42	
Dibromochloromethane	ug/L	<2.6	8.7	01/16/20 09:42	
Dibromomethane	ug/L	<0.94	3.1	01/16/20 09:42	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/16/20 09:42	
Diisopropyl ether	ug/L	<1.9	6.3	01/16/20 09:42	
Ethylbenzene	ug/L	<0.22	1.0	01/16/20 09:42	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

METHOD BLANK: 2004927 Matrix: Water
Associated Lab Samples: 40201900006, 40201900015, 40201900018, 40201900019, 40201900020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/16/20 09:42	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/16/20 09:42	
m&p-Xylene	ug/L	<0.47	2.0	01/16/20 09:42	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/16/20 09:42	
Methylene Chloride	ug/L	<0.58	5.0	01/16/20 09:42	
n-Butylbenzene	ug/L	<0.71	2.4	01/16/20 09:42	
n-Propylbenzene	ug/L	<0.81	5.0	01/16/20 09:42	
Naphthalene	ug/L	<1.2	5.0	01/16/20 09:42	
o-Xylene	ug/L	<0.26	1.0	01/16/20 09:42	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/16/20 09:42	
sec-Butylbenzene	ug/L	<0.85	5.0	01/16/20 09:42	
Styrene	ug/L	<0.47	1.6	01/16/20 09:42	
tert-Butylbenzene	ug/L	<0.30	1.0	01/16/20 09:42	
Tetrachloroethene	ug/L	<0.33	1.1	01/16/20 09:42	
Toluene	ug/L	<0.17	5.0	01/16/20 09:42	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/16/20 09:42	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/16/20 09:42	
Trichloroethene	ug/L	<0.26	1.0	01/16/20 09:42	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/16/20 09:42	
Vinyl chloride	ug/L	<0.17	1.0	01/16/20 09:42	
4-Bromofluorobenzene (S)	%	93	70-130	01/16/20 09:42	
Dibromofluoromethane (S)	%	93	70-130	01/16/20 09:42	
Toluene-d8 (S)	%	92	70-130	01/16/20 09:42	

LABORATORY CONTROL SAMPLE: 2004928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	41.2	82	70-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	61.4	123	73-150	
1,1-Dichloroethene	ug/L	50	48.8	98	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.1	76	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.9	96	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	52.9	106	75-140	
1,2-Dichloropropane	ug/L	50	53.9	108	73-135	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.3	97	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	49.3	99	68-129	
Bromomethane	ug/L	50	35.1	70	18-159	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

LABORATORY CONTROL SAMPLE: 2004928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	46.8	94	70-130	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	52.5	105	53-147	
Chloroform	ug/L	50	46.9	94	74-136	
Chloromethane	ug/L	50	45.3	91	29-115	
cis-1,2-Dichloroethene	ug/L	50	45.4	91	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	31.7	63	10-130	
Ethylbenzene	ug/L	50	47.6	95	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	54-137	
Methylene Chloride	ug/L	50	48.0	96	73-138	
o-Xylene	ug/L	50	49.1	98	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	56.1	112	70-130	
Toluene	ug/L	50	48.9	98	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.6	85	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	50.0	100	76-147	
Vinyl chloride	ug/L	50	50.3	101	51-120	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2004929 2004930

Parameter	Units	2004929		2004930		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40201933002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	24.0	50	50	75.9	75.5	104	103	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.1	50	50	38.9	40.7	78	81	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<2.2	50	50	45.9	46.2	92	92	70-137	1	20	
1,1-Dichloroethane	ug/L	10.9	50	50	73.1	71.7	124	122	73-153	2	20	
1,1-Dichloroethene	ug/L	5.9	50	50	53.8	53.7	96	96	73-138	0	20	
1,2,4-Trichlorobenzene	ug/L	<3.8	50	50	49.7	50.8	99	102	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<7.1	50	50	37.4	39.3	75	79	58-129	5	20	
1,2-Dibromoethane (EDB)	ug/L	<3.3	50	50	46.5	47.8	93	96	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<2.8	50	50	47.2	48.3	94	97	70-130	2	20	
1,2-Dichloroethane	ug/L	<1.1	50	50	51.1	51.0	102	102	75-140	0	20	
1,2-Dichloropropane	ug/L	<1.1	50	50	52.6	54.0	105	108	71-138	3	20	
1,3-Dichlorobenzene	ug/L	<2.5	50	50	48.7	49.4	97	99	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<3.8	50	50	48.3	49.2	97	98	70-130	2	20	

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QUALITY CONTROL DATA

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Parameter	Units	2004929		2004930		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40201933002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Benzene	ug/L	<0.99	50	50	47.0	47.1	94	94	70-130	0	20	
Bromodichloromethane	ug/L	<1.5	50	50	50.2	49.7	100	99	70-130	1	20	
Bromoform	ug/L	<15.9	50	50	47.6	48.1	95	96	68-129	1	20	
Bromomethane	ug/L	<3.9	50	50	36.9	38.6	74	77	15-170	5	20	
Carbon tetrachloride	ug/L	<0.66	50	50	46.1	46.5	92	93	70-130	1	20	
Chlorobenzene	ug/L	<2.8	50	50	51.6	52.6	103	105	70-130	2	20	
Chloroethane	ug/L	<5.4	50	50	48.7	50.0	97	100	51-148	3	20	
Chloroform	ug/L	<5.1	50	50	45.3	45.9	91	92	74-136	1	20	
Chloromethane	ug/L	<8.8	50	50	42.8	42.6	86	85	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	6.8	50	50	52.5	52.2	91	91	70-131	1	20	
cis-1,3-Dichloropropene	ug/L	<14.5	50	50	47.9	49.3	96	99	70-130	3	20	
Dibromochloromethane	ug/L	<10.4	50	50	49.2	50.1	98	100	70-130	2	20	
Dichlorodifluoromethane	ug/L	<2.0	50	50	31.6	31.3	63	63	10-132	1	20	
Ethylbenzene	ug/L	<0.87	50	50	47.7	48.3	95	97	80-125	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.6	50	50	49.7	50.6	99	101	70-130	2	20	
m&p-Xylene	ug/L	<1.9	100	100	100	101	100	101	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<5.0	50	50	48.2	49.1	96	98	51-145	2	20	
Methylene Chloride	ug/L	<2.3	50	50	48.2	47.7	94	93	73-140	1	20	
o-Xylene	ug/L	<1.0	50	50	48.1	49.6	96	99	70-130	3	20	
Styrene	ug/L	<1.9	50	50	49.5	49.9	99	100	70-130	1	20	
Tetrachloroethene	ug/L	189	50	50	266	261	154	144	70-130	2	20	M1
Toluene	ug/L	<0.69	50	50	48.4	49.3	97	99	80-131	2	20	
trans-1,2-Dichloroethene	ug/L	<4.4	50	50	49.7	50.2	99	100	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<17.5	50	50	41.2	42.1	82	84	70-130	2	20	
Trichloroethene	ug/L	5.9	50	50	59.3	60.2	107	109	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.86	50	50	47.7	50.1	95	100	74-147	5	20	
Vinyl chloride	ug/L	<0.70	50	50	48.5	49.4	97	99	41-129	2	20	
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						90	93	70-130			
Toluene-d8 (S)	%						91	91	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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QUALIFIERS

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0156400 LEATHER RICH GW
Pace Project No.: 40201900

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40201900001	MW-1	EPA 8260	345480		
40201900002	MW-2	EPA 8260	345480		
40201900003	MW-3	EPA 8260	345480		
40201900004	MW-4	EPA 8260	345480		
40201900005	MW-5	EPA 8260	345480		
40201900006	MW-6	EPA 8260	345665		
40201900007	MW-7	EPA 8260	345480		
40201900008	MW-8	EPA 8260	345480		
40201900009	MW-9	EPA 8260	345480		
40201900010	MW-10	EPA 8260	345480		
40201900011	MW-11	EPA 8260	345480		
40201900012	MW-12	EPA 8260	345480		
40201900013	MW-13	EPA 8260	345480		
40201900014	MW-14	EPA 8260	345577		
40201900015	MW-15	EPA 8260	345665		
40201900016	MW-16	EPA 8260	345577		
40201900017	MW-17	EPA 8260	345577		
40201900018	DUP-1	EPA 8260	345665		
40201900019	DUP-2	EPA 8260	345665		
40201900020	PZ-1	EPA 8260	345665		
40201900021	PZ-3	EPA 8260	345481		
40201900022	TRIP	EPA 8260	345481		
40201900023	PZ-2	EPA 8260	345481		

REPORT OF LABORATORY ANALYSIS

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

(Please Print Clearly)

Company Name: GZA Geoenvironmental
Branch/Location: Brookfield
Project Contact: Heidi Woelfl
Phone: 414 687 3313
Project Number: 20.0156400
Project Name: Leather Rich GW
Project State: WI
Sampled By (Print): Sheryl Stephenson
Sampled By (Sign): [Signature]
PO #:
Regulatory Program:



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

Page 1 of

Page 58 of 62

46201900

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	Pick Letter	Analysis Requested	1	2	3	4	5	6	7	8	9	10	11	12
	B	VOCs												

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

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-1	1/9/20	1203	GW
002	MW-2	1/9/20	0949	
003	MW-3	01/10/20	1014	
004	MW-4	1/9/20	1514	
005	MW-5	1/9/20	1401	
006	MW-6	1/10/20	1253	
007	MW-7	1/9/20	1126	
008	MW-8	1/9/20	1049	
009	MW-9		1354	
010	MW-10		1405	
011	MW-11		1330	
012	MW-12		1517	
013	MW-13		1041	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: [Signature] Date/Time: 01/10/20 1500

Transmit Prelim Rush Results by (complete what you want):
 [Signature] Date/Time: 1-13-20 0940

Relinquished By: [Signature]	Date/Time: 01/10/20 1500	Received By: [Signature]	Date/Time: 0940
Relinquished By: [Signature]	Date/Time: 1-13-20 0940	Received By: [Signature]	Date/Time: 1-13-20
Relinquished By: [Signature]	Date/Time:	Received By: [Signature]	Date/Time:
Relinquished By: [Signature]	Date/Time:	Received By: [Signature]	Date/Time:
Relinquished By: [Signature]	Date/Time:	Received By: [Signature]	Date/Time:

PACE Project No. 46201900
Receipt Temp = ROTC
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
 Intact / Not Intact

(Please Print Clearly)

Company Name: G2A GeoEnvironmental
 Branch/Location: Brookfield
 Project Contact: Heidi Weelffl
 Phone: 414 687 3313
 Project Number: 20.0156400
 Project Name: leather Rich GW
 Project State: WI
 Sampled By (Print): Sheryl Stephenson
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION

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

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	Pick Letter	Analysis Requested
N	B	VOCs

Quote #: 46201900 SAME

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested
		DATE	TIME		
		014	MW-14		
015	MW-15	1/10/20	1216		3
016	MW-16	1/10/20	1137		3
017	MW-17	1/10/20	1103		3
018	AAW-18 DUP-1	1/9/20	—		3
019	DUP-2	1/10/20	—		3
020	PZ-1	1/9/20	1305		3
021	PZ-3	1/9/20	1109	↓	3
022	TRIP	1/10/20	—		1
023	PZ-2 (P202) <i>1-13-20 GW</i>	1/9/20	1422	GW	3

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>[Signature]</i> Date/Time: 01/10/20 1500	Received By: Date/Time:	PACE Project No. 46201900 Receipt Temp = RDI °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Fedya 1-13-20 0940	Received By: Susan Miko 1-13-20 0940	
Email #1:	Relinquished By: Date/Time:	Received By: Date/Time:	
Email #2:	Relinquished By: Date/Time:	Received By: Date/Time:	
Telephone:	Relinquished By: Date/Time:	Received By: Date/Time:	
Fax:	Relinquished By: Date/Time:	Received By: Date/Time:	

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

GZA

Sample Preservation Receipt Form

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

Client Name: _____

Project # 46201900

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

Lab Lot# of pH paper:

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

Initial when completed:


Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)								
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC	GN				
001																																					2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					2.5 / 5 / 10
005																																					2.5 / 5 / 10
006																																					2.5 / 5 / 10
007																																					2.5 / 5 / 10
008																																					2.5 / 5 / 10
009																																					2.5 / 5 / 10
010																																					2.5 / 5 / 10
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014																																					2.5 / 5 / 10
015																																					2.5 / 5 / 10
016																																					2.5 / 5 / 10
017																																					2.5 / 5 / 10
018																																					2.5 / 5 / 10
019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____


Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____
WO#: 40201900

 40201900

Tracking #: 815381775482
 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 - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature: Uncorr: ROI / 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.

Person examining contents:
 Date: 1-13-20
 Initials: SW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No Pg#</u>
Chain of Custody Relinquished:	<input 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 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>438</u>		

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: SW Date: 1/13/20

March 09, 2020

Heidi Woelfel
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0156045.01 LEATHER RICH
Pace Project No.: 40203824

Dear Heidi Woelfel:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 20.0156045.01 LEATHER RICH

Pace Project No.: 40203824

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40203824001	MW-4	Water	02/25/20 12:08	02/26/20 09:20
40203824002	MW-14	Water	02/25/20 11:37	02/26/20 09:20
40203824003	FB-1	Water	02/25/20 12:10	02/26/20 09:20

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: GZA Geo Environmental
 Branch/Location: Brookfield
 Project Contact: Heidi Woelfel
 Phone: 414-687-3313
 Project Number: 20.0156045.01
 Project Name: Leather Rich
 Project State: WI
 Sampled By (Print): Alex Amundson
 Sampled By (Sign): [Signature]



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

46008804

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)	Y/N	Pick Letter	Analyses Requested
	N	A	PFA's

PO #: _____ Regulatory Program: _____

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-4	2/25/20	1208	GW
002	MW-4	↓	1137	GW
003	FB-1	↓	1210	W

Quote #: _____

Mail To Contact: _____

Mail To Company: SAME

Mail To Address: _____

Invoice To Contact: AW@GZA.com

Invoice To Company: GZA Geo Environmental

Invoice To Address: 17475 W. Sarah Lane STE 100 Brookfield, WI 53045

Invoice To Phone: _____

CLIENT COMMENTS: _____

LAB COMMENTS (Lab Use Only): _____

Profile #: _____

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

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

Relinquished By: <u>[Signature]</u>	Date/Time: <u>2/25/20 1600</u>	Received By: _____	Date/Time: _____
Relinquished By: <u>F&E</u>	Date/Time: <u>2/26/20 0920</u>	Received By: <u>Heidi Woelfel Pace</u>	Date/Time: <u>2/26/20 0920</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 46008804

Receipt Temp = RT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Sample Preservation Receipt Form

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

Client Name: GZA GeoEnv

Project # 46003804

Page 4 of 22

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic					Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	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

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			



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA Geo Env.
Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: _____
WO# : 40203824

40203824

Tracking #: 8153 8177 5655
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: ROE / 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.

Person examining contents:
Date: 2/26/20
Initials: SMW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Project Manager Review: [Signature] Date: 2/26/2020
Page 2 of 22

Report Prepared for:

Christopher Hyska
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

March 5, 2020

Report Information:

Pace Project #: 10509974
Sample Receipt Date: 02/27/2020
Client Project #: 40203824
Client Sub PO #: N/A
State Cert #: 2926.01

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



March 09, 2020

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on three samples one duplicate and a matrix spike submitted by a representative of Pace Wisconsin. The samples were analyzed for twenty-one perfluorinated compounds using a modified version of USEPA Method 537. Reporting limits were set to the quantitation limits.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected.

On the matrix spike there are several analytes that are marked "R" as the recoveries are diminished from the expected levels. These deviations may be due to the presence of the affected analytes in the sample material and/or sample inhomogeneity.

Recoveries for most of the isotopically-labeled surrogate standards in the sample extracts were within the target ranges specified in the method. The 40203824001-MS samples had recoveries for the surrogate labeled d5-EtFOSAA that was lower than the method limit (flagged "Fail"). Where surrogates failed, the sample results could be biased in the same direction.

Results for the low level spikes that were below the calibration range were flagged "J".

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - Pet	1240
Alabama	40770	Mississippi	MN00064
Alaska - DW	MN00064	Missouri - DW	10100
Alaska - UST	17-009	Montana	CERT0092
Arizona	AZ0014	Nebraska	NE-OS-18-06
Arkansas - DW	MN00064	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
CNMI Saipan	MP0003	New Jersey (NE)	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Carolina -	27700
EPA Region 8+	via MN 027-053	North Carolina -	530
Florida (NELAP)	E87605	North Dakota	R-036
Georgia	959	Ohio - DW	41244
Guam	17-001r	Ohio - VAP	CL101
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon - Primar	MN300001
Illinois	200011	Oregon - Secon	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky - DW	90062	South Dakota	NA
Kentucky - WW	90062	Tennessee	TN02818
Louisiana - DE	03086	Texas	T104704192
Louisiana - DW	MN00064	Utah (NELAP)	MN00064
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Massachusetts	M-MN064	West Virginia -	382
Michigan	9909	West Virginia -	9952C
Minnesota	027-053-137	Wisconsin	999407970
Minnesota - De	via MN 027-053	Wyoming - UST	2926.01

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: WI
 Cert. Needed: Yes No

Workorder: 40203824 Workorder Name: 20.0156045.01 LEATHER RICH

Owner Received Date: 2/26/2020 Results Requested By: 318/2020

Report To: Subcontract To

Christopher Hyska
 Pace Analytical Green Bay
 1241 Bellevue Street
 Suite 9
 Green Bay, WI 54302
 Phone (920)469-2436

Pace Analytical Minnesota
 1700 Elm Street SE
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

WO#: 10509974



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						Unpreserved	Preserved	
1	MW-4	PS	2/25/2020 12:08	40203824001	Water	2		001
2	MW-14	PS	2/25/2020 11:37	40203824002	Water	2		002
3	FB-1	PS	2/25/2020 12:10	40203824003	Water	1		003
4								
5								

PFAs / PFOAs by S37M

Transfers	Released By	Date/Time	Received By	Date/Time	Method	Comments
1	<i>Madeline Stubbins Pace</i>	<i>2-26-20 11:20</i>	<i>MMAH Red</i>	<i>2-27-20 11:20</i>	Method 537 - 21 COMPOUND LIST	
2						
3						

Cooler Temperature on Receipt *1.4* °C Custody Seal *(Y)* or N Received on Ice *(Y)* or N Samples Intact *(Y)* or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Condition Upon Receipt

Client Name: **Pace Green Bay**

Project #: **WO# : 10509974**
 Due Date: **03/19/20**
 PM: **KNH**
 CLIENT: **PASI-WI**

Courier: Fed Ex UPS USPS Client
 Pace SpeeDee Commercial See Exceptions

Tracking Number: _____
 Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) Type of Ice: Wet Blue None Dry Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A
 Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 1.4 °C Average Corrected Temp (no temp blank only): See Exceptions
 Correction Factor: True Cooler Temp Corrected w/temp blank: 1.4 °C 1 Container

USDA Regulated Soil: (N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MVZ 2-27-20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
 ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/>
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin <u>PEAS</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Exception <input type="checkbox"/> Chlorine? <input type="checkbox"/> No pH Paper Lot# <input type="checkbox"/>
	<u>KNH 2/27/2020</u>	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/>
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
 Comments/Resolution: _____

Project Manager Review: Kimberly Hejny Date: 2/27/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MVZ Page 11 of 22

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 537 (Modified)
Sample Analysis Summary

Client's Sample ID	MW-4	Date Extracted	03/02/2020
Lab Sample ID	40203824001	Total Amount Extracted	237 mL
Filename	W200303A_020	ICAL ID	200213C04
Matrix	Non_Potable_Wat	Starting CCal	W200303A_015
Collected	02/25/2020	Ending CCal	W200303A_026
Received	02/27/2020	Method Blank Filename	W200303A_013

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFBA	11	2.1	0.70	1	03/03/2020 14:01	375-22-4	
PFPeA	13	2.1	0.61	1	03/03/2020 14:01	2706-90-3	
PFBS	4.0	1.9	0.70	1	03/03/2020 14:01	375-73-5	
PFHxA	12	2.1	0.64	1	03/03/2020 14:01	307-24-4	
PFPPrOPrA	ND	4.2	1.4	1	03/03/2020 14:01	13252-13-6	
PFHpA	6.9	2.1	0.87	1	03/03/2020 14:01	375-85-9	
NaDONA	ND	4.2	1.9	1	03/03/2020 14:01	958445-44-8	
PFHxS	3.0	2.0	0.68	1	03/03/2020 14:01	355-46-4	
PFOA	17	2.1	0.66	1	03/03/2020 14:01	335-67-1	
PFNA	ND	2.1	0.76	1	03/03/2020 14:01	375-95-1	
PFOS	8.9	2.0	0.86	1	03/03/2020 14:01	1763-23-1	
PFDA	ND	2.1	0.57	1	03/03/2020 14:01	335-76-2	
PFUnA	ND	2.1	0.70	1	03/03/2020 14:01	2058-94-8	
N-MeFOSAA	ND	4.2	1.3	1	03/03/2020 14:01	2355-31-9	
N-EtFOSAA	ND	4.2	1.0	1	03/03/2020 14:01	2991-50-6	
PFDS	ND	2.0	0.60	1	03/03/2020 14:01	335-77-3	
PFDaA	ND	2.1	0.65	1	03/03/2020 14:01	307-55-1	
PFTTrDA	ND	2.1	0.80	1	03/03/2020 14:01	72629-94-8	
PFTeDA	ND	2.1	0.81	1	03/03/2020 14:01	376-06-7	
PFHxDA	ND	2.1	0.70	1	03/03/2020 14:01	67905-19-5	
PFODA	ND	2.1	0.86	1	03/03/2020 14:01	16517-11-6	

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.3	113	70 - 130	Pass
13C2_PFDA	2.0	2.1	107	70 - 130	Pass
d5-EtFOSAA	8.0	6.2	78	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	159262	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	649916	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1248395	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	798389	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified)
Sample Analysis Summary

Client's Sample ID	MW-14	Date Extracted	03/02/2020
Lab Sample ID	40203824002	Total Amount Extracted	239 mL
Filename	W200303A_021	ICAL ID	200213C04
Matrix	Non_Potable_Wat	Starting CCal	W200303A_015
Collected	02/25/2020	Ending CCal	W200303A_026
Received	02/27/2020	Method Blank Filename	W200303A_013

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFBA	2.5	2.1	0.70	1	03/03/2020 14:09	375-22-4	
PFPeA	2.1	2.1	0.61	1	03/03/2020 14:09	2706-90-3	
PFBS	9.3	1.8	0.69	1	03/03/2020 14:09	375-73-5	
PFHxA	ND	2.1	0.63	1	03/03/2020 14:09	307-24-4	
PFPPrOPrA	ND	4.2	1.3	1	03/03/2020 14:09	13252-13-6	
PFHpA	ND	2.1	0.86	1	03/03/2020 14:09	375-85-9	
NaDONA	ND	4.2	1.9	1	03/03/2020 14:09	958445-44-8	
PFHxS	3.5	2.0	0.68	1	03/03/2020 14:09	355-46-4	
PFOA	5.4	2.1	0.65	1	03/03/2020 14:09	335-67-1	
PFNA	ND	2.1	0.76	1	03/03/2020 14:09	375-95-1	
PFOS	14	2.0	0.85	1	03/03/2020 14:09	1763-23-1	
PFDA	ND	2.1	0.56	1	03/03/2020 14:09	335-76-2	
PFUnA	ND	2.1	0.69	1	03/03/2020 14:09	2058-94-8	
N-MeFOSAA	ND	4.2	1.3	1	03/03/2020 14:09	2355-31-9	
N-EtFOSAA	ND	4.2	1.0	1	03/03/2020 14:09	2991-50-6	
PFDS	ND	2.0	0.59	1	03/03/2020 14:09	335-77-3	
PFDaA	ND	2.1	0.65	1	03/03/2020 14:09	307-55-1	
PFTTrDA	ND	2.1	0.80	1	03/03/2020 14:09	72629-94-8	
PFTeDA	ND	2.1	0.80	1	03/03/2020 14:09	376-06-7	
PFHxDA	ND	2.1	0.70	1	03/03/2020 14:09	67905-19-5	
PFODA	ND	2.1	0.86	1	03/03/2020 14:09	16517-11-6	

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.4	120	70 - 130	Pass
13C2_PFDA	2.0	2.1	106	70 - 130	Pass
d5-EtFOSAA	8.0	5.9	74	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	156199	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	597983	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1175926	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	768190	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified)
Sample Analysis Summary

Client's Sample ID	MW-14-DUP	Date Extracted	03/02/2020
Lab Sample ID	40203824002-DUP	Total Amount Extracted	243 mL
Filename	W200303A_024	ICAL ID	200213C04
Matrix	Non_Potable_Wat	Starting CCal	W200303A_015
Collected	02/25/2020	Ending CCal	W200303A_026
Received	02/27/2020	Method Blank Filename	W200303A_013

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFBA	2.6	2.1	0.69	1	03/03/2020 14:34	375-22-4	
PFPeA	2.2	2.1	0.60	1	03/03/2020 14:34	2706-90-3	
PFBS	8.8	1.8	0.68	1	03/03/2020 14:34	375-73-5	
PFHxA	ND	2.1	0.62	1	03/03/2020 14:34	307-24-4	
PFPPrOPrA	ND	4.1	1.3	1	03/03/2020 14:34	13252-13-6	
PFHpA	ND	2.1	0.85	1	03/03/2020 14:34	375-85-9	
NaDONA	ND	4.1	1.9	1	03/03/2020 14:34	958445-44-8	
PFHxS	3.1	1.9	0.66	1	03/03/2020 14:34	355-46-4	
PFOA	5.0	2.1	0.64	1	03/03/2020 14:34	335-67-1	
PFNA	ND	2.1	0.75	1	03/03/2020 14:34	375-95-1	
PFOS	13	2.0	0.84	1	03/03/2020 14:34	1763-23-1	
PFDA	ND	2.1	0.55	1	03/03/2020 14:34	335-76-2	
PFUnA	ND	2.1	0.68	1	03/03/2020 14:34	2058-94-8	
N-MeFOSAA	ND	4.1	1.3	1	03/03/2020 14:34	2355-31-9	
N-EtFOSAA	ND	4.1	1.0	1	03/03/2020 14:34	2991-50-6	
PFDS	ND	2.0	0.58	1	03/03/2020 14:34	335-77-3	
PFDaA	ND	2.1	0.64	1	03/03/2020 14:34	307-55-1	
PFTTrDA	ND	2.1	0.79	1	03/03/2020 14:34	72629-94-8	
PFTeDA	ND	2.1	0.79	1	03/03/2020 14:34	376-06-7	
PFHxDA	ND	2.1	0.69	1	03/03/2020 14:34	67905-19-5	
PFODA	ND	2.1	0.84	1	03/03/2020 14:34	16517-11-6	

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.4	118	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	6.3	79	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	167764	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	612489	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1179873	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	770737	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified)
Sample Analysis Summary

Client's Sample ID	FB-1	Date Extracted	03/02/2020
Lab Sample ID	40203824003	Total Amount Extracted	244 mL
Filename	W200303A_022	ICAL ID	200213C04
Matrix	Water	Starting CCal	W200303A_015
Collected	02/25/2020	Ending CCal	W200303A_026
Received	02/27/2020	Method Blank Filename	W200303A_013

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFBA	ND	2.0	0.68	1	03/03/2020 14:17	375-22-4	
PFPeA	ND	2.0	0.60	1	03/03/2020 14:17	2706-90-3	
PFBS	ND	1.8	0.68	1	03/03/2020 14:17	375-73-5	
PFHxA	ND	2.0	0.62	1	03/03/2020 14:17	307-24-4	
PFPPrOPrA	ND	4.1	1.3	1	03/03/2020 14:17	13252-13-6	
PFHpA	ND	2.0	0.84	1	03/03/2020 14:17	375-85-9	
NaDONA	ND	4.1	1.9	1	03/03/2020 14:17	958445-44-8	
PFHxS	ND	1.9	0.66	1	03/03/2020 14:17	355-46-4	
PFOA	ND	2.0	0.64	1	03/03/2020 14:17	335-67-1	
PFNA	ND	2.0	0.74	1	03/03/2020 14:17	375-95-1	
PFOS	ND	2.0	0.84	1	03/03/2020 14:17	1763-23-1	
PFDA	ND	2.0	0.55	1	03/03/2020 14:17	335-76-2	
PFUnA	ND	2.0	0.68	1	03/03/2020 14:17	2058-94-8	
N-MeFOSAA	ND	4.1	1.3	1	03/03/2020 14:17	2355-31-9	
N-EtFOSAA	ND	4.1	1.0	1	03/03/2020 14:17	2991-50-6	
PFDS	ND	2.0	0.58	1	03/03/2020 14:17	335-77-3	
PFDaA	ND	2.0	0.63	1	03/03/2020 14:17	307-55-1	
PFTTrDA	ND	2.0	0.78	1	03/03/2020 14:17	72629-94-8	
PFTeDA	ND	2.0	0.79	1	03/03/2020 14:17	376-06-7	
PFHxDA	ND	2.0	0.68	1	03/03/2020 14:17	67905-19-5	
PFODA	ND	2.0	0.84	1	03/03/2020 14:17	16517-11-6	

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.3	116	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	6.9	86	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	167337	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	626738	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1201967	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	773209	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Blank Analysis Summary

Lab Sample ID	BLANK-77434	Total Amount Extracted	246 mL
Filename	W200303A_013	ICAL ID	200213C04
Matrix	Water	Starting CCal	W200303A_004
Date Extracted	03/02/2020	Ending CCal	W200303A_015

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFBA	ND	2.0	0.68	1	03/03/2020 13:02	375-22-4	
PFPeA	ND	2.0	0.59	1	03/03/2020 13:02	2706-90-3	
PFBS	ND	1.8	0.67	1	03/03/2020 13:02	375-73-5	
PFHxA	ND	2.0	0.62	1	03/03/2020 13:02	307-24-4	
PFPPrOPrA	ND	4.1	1.3	1	03/03/2020 13:02	13252-13-6	
PFHpA	ND	2.0	0.84	1	03/03/2020 13:02	375-85-9	
NaDONA	ND	4.1	1.9	1	03/03/2020 13:02	958445-44-8	
PFHxS	ND	1.9	0.66	1	03/03/2020 13:02	355-46-4	
PFOA	ND	2.0	0.64	1	03/03/2020 13:02	335-67-1	
PFNA	ND	2.0	0.74	1	03/03/2020 13:02	375-95-1	
PFOS	ND	2.0	0.83	1	03/03/2020 13:02	1763-23-1	
PFDA	ND	2.0	0.55	1	03/03/2020 13:02	335-76-2	
PFUnA	ND	2.0	0.67	1	03/03/2020 13:02	2058-94-8	
N-MeFOSAA	ND	4.1	1.2	1	03/03/2020 13:02	2355-31-9	
N-EtFOSAA	ND	4.1	1.00	1	03/03/2020 13:02	2991-50-6	
PFDS	ND	2.0	0.58	1	03/03/2020 13:02	335-77-3	
PFDaA	ND	2.0	0.63	1	03/03/2020 13:02	307-55-1	
PFTTrDA	ND	2.0	0.78	1	03/03/2020 13:02	72629-94-8	
PFTeDA	ND	2.0	0.78	1	03/03/2020 13:02	376-06-7	
PFHxDA	ND	2.0	0.68	1	03/03/2020 13:02	67905-19-5	
PFODA	ND	2.0	0.83	1	03/03/2020 13:02	16517-11-6	

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.3	117	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	7.2	90	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	175228	83775 - 251326	124467 - 248934	Pass
13C2_PFOA	616877	341850 - 1025550	443013 - 886027	Pass
13C4_PFOS	1191035	713217 - 2139652	837230 - 1674460	Pass
d3-MeFOSAA	769162	429696 - 1289088	554539 - 1109079	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Laboratory Control Sample (LCS)

LCS Lab Sample ID	LCS-77435	Matrix	Water
LCS Filename	W200303A_014	Dilution	1
Total Amount Extracted	250mL	Extracted	03/02/2020
ICAL ID	200213C04	Analyzed	03/03/2020 13:10
Start CCal Filename	W200303A_004	Injected By	NH
End CCal Filename	W200303A_015		
Method Blank Filename	W200303A_013		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Limits
PFBA	2.0	2.2	109	50.0 - 150.0
PFPeA	2.0	2.2	108	50.0 - 150.0
PFBS	1.8	1.7 J	96	50.0 - 150.0
PFHxA	2.0	2.1	107	50.0 - 150.0
PFPrOPrA	4.0	3.5 J	88	50.0 - 150.0
PFHpA	2.0	2.0	102	50.0 - 150.0
NaDONA	4.0	4.2	106	50.0 - 150.0
PFHxS	1.9	1.7 J	90	50.0 - 150.0
PFOA	2.0	2.0	102	50.0 - 150.0
PFNA	2.0	1.9 J	97	50.0 - 150.0
PFOS	1.9	1.6 J	86	50.0 - 150.0
PFDA	2.0	2.0 J	99	50.0 - 150.0
PFUnA	2.0	1.9 J	94	50.0 - 150.0
N-MeFOSAA	4.0	3.2 J	79	50.0 - 150.0
N-EtFOSAA	4.0	2.8 J	69	50.0 - 150.0
PFDS	1.9	1.4 J	75	50.0 - 150.0
PFDoA	2.0	1.5 J	77	50.0 - 150.0
PFTTrDA	2.0	1.4 J	72	50.0 - 150.0
PFTeDA	2.0	1.6 J	79	50.0 - 150.0
PFHxDA	2.0	1.5 J	77	50.0 - 150.0
PFODA	2.0	1.7 J	84	50.0 - 150.0

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.4	118	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	6.1	77	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	160689	83775 - 251326	124467 - 248934	Pass
13C2_PFOA	600155	341850 - 1025550	443013 - 886027	Pass
13C4_PFOS	1187290	713217 - 2139652	837230 - 1674460	Pass
d3-MeFOSAA	751872	429696 - 1289088	554539 - 1109079	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Laboratory Control Sample (LCS)

LCS Lab Sample ID	LCS-77436	Matrix	Water
LCS Filename	W200303A_016	Dilution	1
Total Amount Extracted	249mL	Extracted	03/02/2020
ICAL ID	200213C04	Analyzed	03/03/2020 13:27
Start CCal Filename	W200303A_015	Injected By	NH
End CCal Filename	W200303A_026		
Method Blank Filename	W200303A_013		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Limits
PFBA	20	21	105	70.0 - 130.0
PFPeA	20	22	112	70.0 - 130.0
PFBS	18	17	96	70.0 - 130.0
PFHxA	20	21	107	70.0 - 130.0
PFPrOPrA	40	34	85	70.0 - 130.0
PFHpA	20	22	108	70.0 - 130.0
NaDONA	40	43	107	70.0 - 130.0
PFHxS	19	17	91	70.0 - 130.0
PFOA	20	20	99	70.0 - 130.0
PFNA	20	21	104	70.0 - 130.0
PFOS	19	18	93	70.0 - 130.0
PFDA	20	20	101	70.0 - 130.0
PFUnA	20	20	101	70.0 - 130.0
N-MeFOSAA	40	38	95	70.0 - 130.0
N-EtFOSAA	40	37	93	70.0 - 130.0
PFDS	19	17	89	70.0 - 130.0
PFDoA	20	18	91	70.0 - 130.0
PFTTrDA	20	19	96	70.0 - 130.0
PFTeDA	20	21	104	70.0 - 130.0
PFHxDA	20	21	104	70.0 - 130.0
PFODA	20	21	104	70.0 - 130.0

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.3	116	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	7.6	95	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	165265	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	617534	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1162279	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	771179	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Laboratory Control Sample Duplicate (LCSD)

LCSD Lab Sample ID	LCSD-77437	LCS Filename	W200303A_016
LCSD Filename	W200303A_017	Matrix	Water
Total Amount Extracted	251mL	Dilution	1
ICAL ID	200213C04	Extracted	03/02/2020
Start CCal Filename	W200303A_015	Analyzed	03/03/2020 13:36
End CCal Filename	W200303A_026	Injected By	NH
Method Blank Filename	W200303A_013		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Recovery Limits	RPD %
PFBA	20	22	111	70.0 - 130.0	5
PFPeA	20	23	113	70.0 - 130.0	1
PFBS	18	18	101	70.0 - 130.0	5
PFHxA	20	22	110	70.0 - 130.0	2
PFPrOPrA	40	35	88	70.0 - 130.0	3
PFHpA	20	22	111	70.0 - 130.0	2
NaDONA	40	43	109	70.0 - 130.0	1
PFHxS	19	18	96	70.0 - 130.0	5
PFOA	20	20	100	70.0 - 130.0	1
PFNA	20	21	107	70.0 - 130.0	2
PFOS	19	18	96	70.0 - 130.0	2
PFDA	20	20	100	70.0 - 130.0	2
PFUnA	20	21	105	70.0 - 130.0	2
N-MeFOSAA	40	37	93	70.0 - 130.0	3
N-EtFOSAA	40	35	87	70.0 - 130.0	7
PFDS	19	17	90	70.0 - 130.0	1
PFDoA	20	18	89	70.0 - 130.0	2
PFTTrDA	20	19	95	70.0 - 130.0	1
PFTeDA	20	21	103	70.0 - 130.0	2
PFHxDA	20	21	106	70.0 - 130.0	1
PFODA	20	22	110	70.0 - 130.0	5

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.4	121	70 - 130	Pass
13C2_PFDA	2.0	2.2	111	70 - 130	Pass
d5-EtFOSAA	8.0	7.0	88	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	164354	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	594866	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1128440	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	747960	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Matrix Spike Sample (MS)

MS Lab Sample ID	40203824001-MS	Matrix	Non_Potable_Water
MS Filename	W200303A_023	Dilution	1
Total Amount Extracted	238mL	Extracted	03/02/2020
ICAL ID	200213C04	Analyzed	03/03/2020 14:26
Start CCal Filename	W200303A_015	Injected By	NH
End CCal Filename	W200303A_026		
Method Blank Filename	W200303A_013		

Compound	Spike (ng/L)	Sample (ng/L)	Recovered (ng/L)	Recovery %	Limits	Flags
PFBA	2.1	11	12	54	50.0 - 150.0	
PFPeA	2.1	13	14	52	50.0 - 150.0	
PFBS	1.8	4.0	5.7	96	50.0 - 150.0	
PFHxA	2.1	12	13	56	50.0 - 150.0	
PFPPrA	4.2	0	3.5	84	50.0 - 150.0	J
PFHpA	2.1	6.9	8.6	79	50.0 - 150.0	
NaDONA	4.2	0	4.3	102	50.0 - 150.0	
PFHxS	2.0	3.0	4.7	87	50.0 - 150.0	
PFOA	2.1	17	17	28	50.0 - 150.0	R
PFNA	2.1	0	2.9	136	50.0 - 150.0	
PFOS	2.0	8.9	11	86	50.0 - 150.0	
PFDA	2.1	0	2.7	129	50.0 - 150.0	
PFUnA	2.1	0	1.5	72	50.0 - 150.0	J
N-MeFOSAA	4.2	0	1.8	43	50.0 - 150.0	JR
N-EtFOSAA	4.2	0	1.6	37	50.0 - 150.0	JR
PFDS	2.0	0	1.5	76	50.0 - 150.0	J
PFDoA	2.1	0	1.3	63	50.0 - 150.0	J
PFTTrDA	2.1	0	1.4	67	50.0 - 150.0	J
PFTeDA	2.1	0	1.6	76	50.0 - 150.0	J
PFHxDA	2.1	0	1.6	77	50.0 - 150.0	J
PFODA	2.1	0	1.6	77	50.0 - 150.0	J

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.1	104	70 - 130	Pass
13C2_PFDA	2.0	1.8	89	70 - 130	Pass
d5-EtFOSAA	8.0	3.5	43	70 - 130	Fail

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrA	145206	83775 - 251326	115434 - 230868	Pass
13C2_PFOA	629785	341850 - 1025550	438668 - 877336	Pass
13C4_PFOS	1206411	713217 - 2139652	837175 - 1674350	Pass
d3-MeFOSAA	791656	429696 - 1289088	543796 - 1087592	Pass

50-150% of Ical area
70-140% of the preceding CCV area