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BARR

January 4, 2022

Mr. John Sager
Wisconsin Department of Natural Resources
1701 North 4th, Street
Superior, WI 54880

Re: Facility-Wide Groundwater Monitoring Report for 2021
Superior Refining Company LLC, Superior, WI
WDNR BRRTS# 16-16-559511
Facility ID 816009590

Dear John:

On behalf of Superior Refining Company LLC (SRC), Barr Engineering Co. (Barr) is submitting this facility-wide Environmental Response Program (ERP) remediation progress report for the SRC refinery in Superior, Wisconsin. Periodic site progress reporting to the Wisconsin Department of Natural Resources (WDNR) is required pursuant to ss. NR 700.11(1) and 724.13(3), Wisconsin Administrative Code. This report summarizes monitoring activities conducted at the site in 2021.

1.0 Facility and Site Background Information

Figure 1 shows the location and approximate boundary of the facility-wide ERP site and the area surrounding the refinery. Figure 2 presents the site layout of the refinery which occupies portions of Sections 25, 26, 30, and 36; Township 49 North; Range 14 West; in Superior Township of Douglas County, Wisconsin. Figure 2 also shows the locations of the 23 monitoring wells (MW-1, MW-1/T67, MW-2, MW-2/T66, MW-3/T50, MW-3D, MW-5/T40, MW-5/T70, MW-7, MW-8R, MW-9B, and MW-11 through MW-22) and 8 piezometers (PZ-2/T66, PZ-3D, PZ-8R, PZ-11, PZ-13, PZ-16, PZ-17, and PZ-21) in the network. Table 1 provides a summary of monitoring wells and piezometers in the facility-wide ERP groundwater monitoring array.

The topography at the refinery slopes gently to the east. Surface elevations range from approximately 650 to 660 feet above mean sea level (MSL). The closest natural surface water body is Newton Creek, located approximately 850 feet east of the refinery's closest aboveground storage tank (AST) (Figure 1). The creek flows for approximately 1.5 miles to Hog Island Inlet, which connects to Lake Superior Bay. Storm water retention and fire water ponds, along with two artificial wetlands for wastewater treatment plant discharge polishing, are located just northwest of the Newton Creek headwaters, near the intersection of Stinson/24th Avenue and Bardon Avenue.

Other than the process areas, which are generally paved, most of the refinery property is unpaved. The depth to groundwater in the network monitoring wells ranges from less than 1 foot to greater than 6 feet below ground surface (bgs) depending on time of year and topography. The regional groundwater flow direction below the refinery is to the east (Figure 2).

As presented in the April 2014 Gannett Fleming, Inc. (GF) *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan* (SI/RAP) (GF, 2014), red-brown native lean clay till is present

beneath the site, is relatively homogenous, and extends to approximately 100 feet bgs beneath the site. The hydraulic conductivity of the native clay underlying the refinery is on the order of 1×10^{-7} centimeters per second (cm/sec) (GF, 2014). Assuming a horizontal hydraulic gradient of 0.003 feet per foot (ft/ft) eastward and an effective porosity of 0.06, the estimated horizontal groundwater flow velocity at the refinery is approximately 0.01 foot per year (ft/yr) (GF, 2014).

In October 2011, Calumet Superior LLC (Calumet) acquired the refinery from Murphy Oil. In May 2014, the WDNR approved Calumet's April 2014 SI/RAP for the refinery (GF, 2014). In November 2017, Husky Superior Refining Holding Corp. (Husky Superior) purchased Calumet and changed its legal name to Superior Refining Company LLC. On April 4, 2018, the April 2014 SI/RAP became a component of the March 2018 Negotiated Agreement between SRC and the WDNR (WDNR/SRC, 2018). In January 2021, Husky and Cenovus Energy Inc. (Cenovus) merged to become Cenovus; however, the legal name of the refinery will remain unchanged and the Negotiated Agreement remains in effect.

In conjunction with the SI/RAP, a network of 23 wells and 8 piezometers for monitoring overall groundwater quality was established. Starting in 2015, all wells and piezometers in the network are gauged twice per year (to check for free product, track seasonal changes in water levels, and prepare groundwater contour map); 18 of the monitoring wells and the 8 piezometers are purged and sampled; and the remaining 5 wells are gauged only. As summarized in Table 1, the sampled wells (18) and piezometers (8) are referred to as "perimeter" wells and the 5 monitoring wells that are gauged but not sampled are referred to as "other" wells. Also listed on Table 1 is a separate subset of 5 perimeter wells that are sampled once per year as part of the WDNR Groundwater and Environmental Monitoring System (GEMS) program, also referred to as "pond" wells.

Currently, long-term groundwater monitoring of the facility-wide monitoring network is being conducted twice a year in accordance with the Negotiated Agreement. This report presents monitoring data for 2021.

2.0 Monitoring Activities in 2021

Year-round access to the network of monitoring wells and piezometers at the refinery is not practical because of relatively shallow groundwater, cold weather, and snow. When conditions allow access, the monitoring wells and piezometers are gauged, and the perimeter wells/piezometers are purged and sampled, in the spring and fall (typically April/May and September/October). Since gauging began in 2016, no measurable free product has been observed in the wells and piezometers in the network. Monitoring and gauging activities conducted in 2021 are summarized in Table 2.

As previously reported, the 4-inch-diameter steel pipe that serves as a protective cover for MW-7 (constructed of 2-inch- diameter, Schedule 40 PVC) was bent during response activities associated with the April 2018 Incident. As a precautionary measure, SRC plans to abandon the well and install MW-7R as a replacement. The well abandonment/installation work continues to be delayed due to a temporary refocusing of efforts on the refinery rebuild activities and implementation of a new policy on ground disturbance at the refinery.

In 2021 the riser of monitoring well MW-3/T50 was damaged. The riser was broken off at the ground surface and no damage to the subsurface well riser occurred. On October 6, 2021, a PVC coupler was used to re-attach the riser. The monitoring well will be resurveyed in 2022.

2.1 Groundwater Gauging

During 2021, the network of monitoring wells and piezometers were gauged on April 27-28, May 10-12, May 24-25, September 7-9, September 21-22, 24, and October 4-5. Insight purged the perimeter wells/piezometers prior to sample collection which was conducted on May 24-25 and October 4-5, 2021. Water level was not measured in MW-14 on April 27, 2021 as a visible obstruction at ground level prevented gauging and purging. Table 2 includes fluid level monitoring data for April through October 2021. No measurable free product was observed in the monitoring wells or piezometers.

The depth to groundwater in the monitoring wells ranged from 2.44 to 10.23 feet bgs. All of the calculated vertical gradients were negative/downward and ranged from 0.04 to 0.48 except for piezometer PZ-13 where the vertical gradient was positive/upward on September 7, 2021, at 0.01. All water level elevation data are presented in Table 2; negative vertical gradients are shown in parenthesis in red.

The direction of shallow groundwater flow below the refinery is to the east (Figure 2), which is consistent with previously determined groundwater flow directions. Likewise, the average calculated horizontal hydraulic gradient of 0.005 ft/ft is consistent with those calculated in previous years.

2.2 Groundwater Sampling and Results

Groundwater samples were collected by Barr and Insight field staff at the site during May and October 2021. The perimeter wells/piezometers were purged using the modified purge method approved by the WDNR in 2015. All the perimeter wells/piezometers are purged twice prior to sampling. Field staff used a new one-time-use polyethylene disposable bailer with new nylon rope to collect each groundwater sample. The May 2021 groundwater samples were sent to Pace Analytical (Pace) in Green Bay, Wisconsin (Wisconsin laboratory certification #405132750) and the October 2021 samples were sent to Pace in Minneapolis, Minnesota (Wisconsin laboratory certification #999407970); samples were analyzed for petroleum volatile organic compounds (PVOCs) and naphthalene using EPA Method 8260B. In addition, groundwater samples collected in October 2021 from the five GEMS (pond) wells (MW-1, MW-2, MW-3D, MW-8R, and MW-9B) were analyzed for VOCs (and select inorganics for the GEMS program, as described above).

Table 3 presents analytical results of the groundwater samples compared to the NR 140 Preventative Action Limits (PALs) and Enforcement Standards (ESs). Included in Table 3 are the results for PVOCs and naphthalene only; complete VOC and inorganic compound results for the five GEMS (pond) wells are submitted to the WDNR GEMS program staff in a separate report and included here in the attached laboratory report. As shown in Table 3, PVOC and naphthalene concentrations were all below their respective PALs in the groundwater samples collected in May and October 2021. In October 2021, in monitoring well MW-11 the naphthalene concentration and in monitoring well MW-14 xylene concentration were between the laboratory's detection and quantitation limits. The estimated total TMB (a sum of 1,2,4-TMB and 1,3,5-TMB) calculated for the October 2021 sample collected from monitoring well MW-11 was greater than the totaled laboratory method detection limits but less than the PAL. The estimated total sum of xylenes calculated for the October 2021 sample collected from monitoring well MW-8R was greater than the totaled laboratory method detection limits but less than the PAL.

Attachment A provides copies of the laboratory reports and chain of custody records for the groundwater samples collected in 2021.

3.0 Future Work

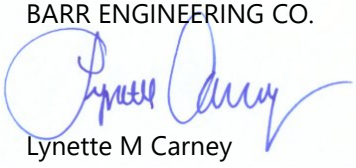
SRC's work plan for 2022 is as follows:

- Properly abandon MW-7 and install MW-7R to replace the bent well. Following completion, MW-7R will be developed prior to gauging and sampling, its top of casing elevation and location will be surveyed, and paperwork on state-approved forms for the abandonment of MW-7 and drilling, installation, and development of MW-7R will be submitted to the WDNR.
- Resurvey monitoring well MW-3/T50.
- Continue to gauge fluid levels in all the network monitoring wells and piezometers, and purge and sample all the perimeter wells/piezometers twice per year (April/May and September/October).
- Continue to submit groundwater samples for laboratory analysis for:
    - PVOCs/naphthalene using EPA Method 8260 on a routine basis.
    - VOCs using EPA Method 8260B and select inorganics using EPA Method 6010 and Standard Method 2320B when monitoring the five GEMS (pond) wells once per year.
- Report the results of the groundwater gauging and sample analyses in a groundwater monitoring report to the WDNR by the end of January 2023.

Contact Matt Turner at SRC or me if you have any questions or need additional information.

Sincerely,

BARR ENGINEERING CO.



Lynette M Carney
Project Manager

cc: Matt Turner (SRC)

Tables

Table 1	ERP Well Location, Designation, and Monitoring Parameter Summary
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Figure 1	Site Location Map
Figure 2	Groundwater Contour Map, April 2021

Attachments

Attachment A	Pace Analytical Laboratory Reports

References

Barr Engineering Co., 2021. *Facility-Wide Groundwater Monitoring Report for 2020, Superior Refining Company LLC, Superior, WI, WDNR BRRTS# 16-16-559511, Facility ID 816009590*. February 26, 2021.

Gannett Fleming, Inc. (GF), 2014. *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan, Calumet Superior LLC Refinery, Superior, WI, WDNR BRRTS# 02-16-559511*. April 30, 2014.

GF, 2019. *Facility-Wide ERP Groundwater Monitoring Report for 2019, Superior Refining Company LLC, Superior, WI, WDNR BRRTS# 16-16-559511 and Facility ID: 816009590.* November 18, 2019.

Wisconsin Department of Natural Resources (WDNR) and Superior Refining Company LLC (SRC), 2018. *Negotiated Agreement between SRC and WDNR with respect to a process for responding to petroleum hazardous substance discharges at SRC's Wisconsin facilities including both SRC's "South Tank Farm" property and the Superior refinery property* [paraphrased for brevity]. March 15, 2018.

CERTIFICATION

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

Lynette M. Carney, PG
Reg #: 1138

January 4, 2022
Date

Tables

Table 1
ERP Well Location, Desgination, and Monitoring Parameter Summary
Superior Refining Company LLC
Superior, Wisconsin

Well Network			Well / Piezometer Designation(s)			Monitoring Parameters		
Monitoring Well No.	Co-located Piezometer No.	Well / Piezometer Location	Perimeter	Pond/GEMS	Other	Water Level (Spring and Autumn)	PVOC/Naphthalene (Spring and Autumn) (ERP)	VOCs (Autumn) (GEMS)
MW-1		NE corner of refinery	X	X		X	X	X
MW-1/T67		Tank 67 basin			X	X		
MW-2		NE corner of refinery	X	X		X	X	X
MW-2/T66	PZ-2/T66	SE of Tank 65 basin	X[1]		X[2]	X		
MW-3D	PZ-3D	NE corner of refinery	X	X		X	X	X
MW-3/T50		Tank 50 basin			X	X		
MW-5/T40		Tank 40 basin			X	X		
MW-5/T70		Tank 70 basin			X	X		
MW-7		Central area of refinery	X			X	X	
MW-8R	PZ-8R	Tanks 106/112/114; SW corner of refinery	X	X		X	X	X
MW-9B		NW of Wastewater Treatment Plant	X	X		X	X	X
MW-11	PZ-11	Near intersection of Stinson & Bardon Av	X			X	X	
MW-12		South-central property boundary	X			X	X	
MW-13	PZ-13	South-central property boundary	X			X	X	
MW-14		South-central property boundary	X			X	X	
MW-15		North of refinery	X			X	X	
MW-16	PZ-16	NE corner of refinery	X			X	X	
MW-17	PZ-17	SE of Wastewater Treatment Plant	X			X	X	
MW-18		Near intersection of Stinson & Bardon Av	X			X	X	
MW-19		South tank farm	X			X	X	
MW-20		South tank farm	X			X	X	
MW-21	PZ-21	South tank farm	X			X	X	
MW-22		South tank farm	X			X	X	

NOTES:
ERP = WDNR Environmental Repair Program
GEMS = WDNR Groundwater and Environmental Monitoring System
Other = wells that are routinely gauged but are not routinely purged and sampled.
WDNR = Wisconsin Department of Natural Resources
[1] Of this well/piezometer pair, only the piezometer, PZ-2/T66, is a perimeter well that is routinely purged and sampled
[2] Of this well/piezometer pair, only the well, MW-2/T66, is an "other" well and is not routinely purged or sampled

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2021)
Superior Refining Company LLC
Superior, Wisconsin

	Monitoring Well ID and Reference Information													
Description	**MW-1**	**MW-1/T67**	**MW-2**	**MW-2/T66**	**PZ-2/T66**	**MW-3D**	**PZ-3D**	**MW-3/T50**	**MW-5/T40**	**MW-5/T70**	**MW-7**	**MW-8R**	**PZ-8R**	**MW-9B**
Top of casing (ft MSL)	**659.46**	**657.75**	**658.03**	**659.51**	**659.07**	**655.53**	**656.29**	**663.73**	**660.62**	**660.37**	**661.12**	**663.75**	**664.19**	**655.82**
Ground surface (ft MSL)	**655.43**	**656.41**	**654.99**	**657.01**	**656.30**	**653.79**	**653.49**	**659.96**	**658.03**	**657.86**	**659.59**	**661.45**	**661.38**	**654.38**
Top of screen (ft MSL)	**649.00**	**653.40**	**648.50**	**654.40**	**621.57**	**650.30**	**618.79**	**659.23**	**655.20**	**655.36**	**654.70**	**659.75**	**626.69**	**651.10**
Bottom of well (ft MSL)	**633.80**	**638.40**	**633.50**	**639.40**	**616.57**	**635.30**	**613.79**	**649.23**	**645.20**	**645.36**	**639.50**	**649.75**	**621.69**	**636.10**
Measurement Date	Depth to Water from Top of Casing (feet)													
05/04/16	6.61	2.54	5.21	4.41	12.88	3.32	14.31	6.04	3.75	3.81	4.25	4.91	9.69	3.19
09/07/16	8.24	2.15	7.71	6.06	16.20	3.65	17.15	4.75	3.51	3.69	5.09	4.91	11.17	6.58
04/26/17	6.91	2.08	4.59	3.17	12.66	1.81	13.77	4.30	3.20	3.43	4.11	2.58	6.56	2.62
09/27/17	6.31	1.84	4.28	3.23	14.31	1.99	15.50	4.37	3.15	3.74	3.95	2.72	10.35	3.75
05/21/18	6.96	2.74	7.10	4.82	12.20	3.13	13.19	6.53	4.75	4.29	4.39	3.35	9.20	3.02
09/10/18	8.21	2.29	5.28	4.35	17.30	3.18	18.18	6.48	3.45	2.83	4.62	3.78	12.44	7.87
04/23/19	6.98	4.09	6.92	4.38	13.50	2.12	13.67	3.62	3.27	3.42	4.91	3.59	10.38	2.83
09/09/19	8.46	6.42	7.81	5.27	15.75	2.48	16.62	5.02	3.62	4.22	nm	5.06	10.46	7.68
04/28/20	6.91	2.74	5.34	4.01	13.07	2.48	13.50	5.44	3.61	3.61	4.02	3.71	9.29	2.91
05/12/20	6.78	2.68	5.67	4.83	25.20	3.74	30.10	4.19	4.20	4.43	3.98	4.12	32.30	3.35
05/27/20	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
07/16/20	nm	nm	nm	nm	nm	nm	nm	nm	4.63	4.25	nm	nm	nm	nm
09/10/20	8.93	2.51	7.19	5.59	16.04	4.56	16.66	8.01	4.08	4.62	4.62	5.03	11.19	7.20
09/24/20	13.52	2.71	10.43	5.94	34.87	5.69	35.67	7.71	6.92	4.56	9.07	9.42	31.67	7.00
10/06/20	14.82	nm	12.81	6.12	35.96	8.85	36.01	nm	7.49	4.68	nm	10.81	32.70	13.22
04/27/21	6.80	2.44	4.57	3.29	13.11	2.17	13.60	nm	3.46	3.75	4.60	2.54	9.53	2.89
05/10/21	7.19	2.75	5.78	4.83	27.56	3.75	25.45	nm	4.49	4.39	4.72	4.41	24.60	3.33
05/24/21	11.37	nm	7.31	4.42	35.91	2.43	34.93	nm	3.47	3.44	4.42	4.32	31.12	2.82
09/07/21	10.23	2.84	9.31	6.90	15.91	6.81	16.29	nm	4.54	4.58	6.57	5.61	10.75	9.07
09/21/21	4.01	2.53	13.07	4.00	36.01	10.41	34.97	nm	4.03	3.57	6.42	3.31	31.30	12.09
10/05/21	17.81	2.67	16.06	5.43	36.43	12.32	35.67	nm	3.66	4.21	5.72	3.61	32.73	14.17
	Water Elevation (ft MSL)													
05/04/16	652.85	655.21	652.82	655.10	646.19	652.21	641.98	657.69	656.87	656.56	656.87	658.84	654.50	652.63
09/07/16	651.22	655.60	650.32	653.45	642.87	651.88	639.14	658.98	657.11	656.68	656.03	658.84	653.02	649.24
04/26/17	652.55	655.67	653.44	656.34	646.41	653.72	642.52	659.43	657.42	656.94	657.01	661.17	657.63	653.20
09/27/17	653.15	655.91	653.75	656.28	644.76	653.54	640.79	659.36	657.47	656.63	657.17	661.03	653.84	652.07
05/21/18	652.50	655.01	650.93	654.69	646.87	652.40	643.10	657.20	655.87	656.08	656.73	660.40	654.99	652.80
09/10/18	651.25	655.46	652.75	655.16	641.77	652.35	638.11	657.25	657.17	657.54	656.50	659.97	651.75	647.95
04/23/19	652.48	653.66	651.11	655.13	645.57	653.41	642.62	660.11	657.35	656.95	656.21	660.16	653.81	652.99
09/09/19	651.00	651.33	650.22	654.24	643.32	653.05	639.67	658.71	657.00	656.15	nm	658.69	653.73	648.14
04/28/20	652.55	655.01	652.69	655.50	646.00	653.05	642.79	658.29	657.01	656.76	657.10	660.04	654.90	652.91
05/12/20	652.68	655.07	652.36	654.68	633.87	651.79	626.19	659.54	656.42	655.94	657.14	659.63	631.89	652.47
05/27/20	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
07/16/20	nm	nm	nm	nm	nm	nm	nm	nm	655.99	656.12	nm	nm	nm	nm
09/10/20	650.53	655.24	650.84	653.92	643.03	650.97	639.63	655.72	656.54	655.75	656.50	658.72	653.00	648.62
09/24/20	645.94	655.04	647.60	653.57	624.20	649.84	620.62	656.02	653.70	655.81	652.05	654.33	632.52	648.82
10/06/20	644.64	nm	645.22	653.39	623.11	646.68	620.28	nm	653.13	655.69	nm	652.94	631.49	642.60
04/27/21	652.66	655.31	653.46	656.22	645.96	653.36	642.69	nm	657.16	656.62	656.52	661.21	654.66	652.93
05/10/21	652.27	655.00	652.25	654.68	631.51	651.78	630.84	nm	656.13	655.98	656.40	659.34	639.59	652.49
05/24/21	648.09	nm	650.72	655.09	623.16	653.10	621.36	nm	657.15	656.93	656.70	659.43	633.07	653.00
09/07/21	649.23	654.91	648.72	652.61	643.16	648.72	640.00	nm	656.08	655.79	654.55	658.14	653.44	646.75
09/21/21	655.45	655.22	644.96	655.51	623.06	645.12	621.32	nm	656.59	656.80	654.70	660.44	632.89	643.73
10/04/21	641.65	655.08	641.97	654.08	622.64	643.21	620.63	nm	656.96	656.16	655.40	660.14	631.46	641.65

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2021)
Superior Refining Company LLC
Superior, Wisconsin

	Monitoring Well ID and Reference Information													
Description	**MW-1**	**MW-1/T67**	**MW-2**	**MW-2/T66**	**PZ-2/T66**	**MW-3D**	**PZ-3D**	**MW-3/T50**	**MW-5/T40**	**MW-5/T70**	**MW-7**	**MW-8R**	**PZ-8R**	**MW-9B**
Top of casing (ft MSL)	**659.46**	**657.75**	**658.03**	**659.51**	**659.07**	**655.53**	**656.29**	**663.73**	**660.62**	**660.37**	**661.12**	**663.75**	**664.19**	**655.82**
Ground surface (ft MSL)	**655.43**	**656.41**	**654.99**	**657.01**	**656.30**	**653.79**	**653.49**	**659.96**	**658.03**	**657.86**	**659.59**	**661.45**	**661.38**	**654.38**
Top of screen (ft MSL)	**649.00**	**653.40**	**648.50**	**654.40**	**621.57**	**650.30**	**618.79**	**659.23**	**655.20**	**655.36**	**654.70**	**659.75**	**626.69**	**651.10**
Bottom of well (ft MSL)	**633.80**	**638.40**	**633.50**	**639.40**	**616.57**	**635.30**	**613.79**	**649.23**	**645.20**	**645.36**	**639.50**	**649.75**	**621.69**	**636.10**
	Calculated Vertical Gradient													
05/04/16	--	--	--	--	(0.32)	--	(0.39)	--	--	--	--	--	(0.14)	--
09/07/16	--	--	--	--	(0.39)	--	(0.48)	--	--	--	--	--	(0.19)	--
04/26/17	--	--	--	--	(0.36)	--	(0.42)	--	--	--	--	--	(0.12)	--
09/27/17	--	--	--	--	(0.41)	--	(0.48)	--	--	--	--	--	(0.24)	--
05/21/18	--	--	--	--	(0.28)	--	(0.35)	--	--	--	--	--	(0.18)	--
09/10/18	--	--	--	--	(0.48)	--	(0.54)	--	--	--	--	--	(0.27)	--
04/23/19	--	--	--	--	(0.34)	--	(0.41)	--	--	--	--	--	(0.21)	--
09/09/19	--	--	--	--	(0.39)	--	(0.50)	--	--	--	--	--	(0.17)	--
04/28/20	--	--	--	--	(0.34)	--	(0.39)	--	--	--	--	--	(0.17)	--
09/10/20	--	--	--	--	(0.39)	--	(0.43)	--	--	--	--	--	(0.19)	--
04/27/21	--	--	--	--	(0.37)	--	(0.40)	--	--	--	--	--	(0.21)	--
09/07/21	--	--	--	--	(0.35)	--	(0.34)	--	--	--	--	--	(0.16)	--

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2021)
Superior Refining Company LLC
Superior, Wisconsin

	Monitoring Well ID and Reference Information																
Description	**MW-11**	**PZ-11**	**MW-12**	**MW-13**	**PZ-13**	**MW-14**	**MW-15**	**MW-16**	**PZ-16**	**MW-17**	**PZ-17**	**MW-18**	**MW-19**	**MW-20**	**MW-21**	**PZ-21**	**MW-22**
Top of casing (ft MSL)	**654.98**	**655.25**	**656.70**	**659.10**	**658.97**	**661.16**	**659.89**	**658.85**	**658.65**	**654.30**	**654.58**	**651.89**	**658.94**	**659.06**	**659.29**	**659.52**	**659.19**
Ground surface (ft MSL)	**652.44**	**652.61**	**653.92**	**656.08**	**656.13**	**658.14**	**657.55**	**655.86**	**655.79**	**651.47**	**651.79**	**649.36**	**656.85**	**655.99**	**656.73**	**656.72**	**657.07**
Top of screen (ft MSL)	**647.7**	**617.8**	**649.0**	**651.3**	**621.5**	**653.1**	**654.4**	**653.4**	**621.2**	**648.8**	**617.1**	**646.4**	**653.4**	**653.6**	**653.8**	**622.0**	**653.7**
Bottom of well (ft MSL)	**632.7**	**612.8**	**634.0**	**636.3**	**616.5**	**638.1**	**639.4**	**638.4**	**616.2**	**633.8**	**612.1**	**631.4**	**638.4**	**638.6**	**638.8**	**617.0**	**638.7**
Measurement Date	Depth to Water from Top of Casing (feet)																
05/04/16	4.42	12.01	4.30	4.46	11.70	4.39	3.65	3.40	16.96	5.09	13.91	4.72	3.65	4.49	3.76	11.62	4.26
09/07/16	7.51	12.55	9.05	9.02	12.48	4.57	3.44	5.56	20.57	5.40	16.86	5.98	4.59	4.60	4.80	12.96	5.91
04/26/17	3.16	11.49	4.78	3.71	11.42	2.48	2.88	3.31	16.43	4.91	13.75	2.85	2.36	3.78	4.49	11.25	2.62
09/27/17	3.70	11.71	4.22	3.53	11.55	3.52	3.00	3.31	18.98	4.93	15.69	3.10	2.31	3.41	3.11	12.02	2.69
05/21/18	3.90	11.22	5.27	5.09	11.08	8.47	2.08	3.31	16.22	6.40	13.30	4.71	3.61	4.67	3.82	11.15	3.80
09/10/18	9.46	12.45	5.43	3.95	12.91	3.81	3.46	5.05	22.96	4.60	18.85	4.91	4.30	4.76	7.05	13.29	4.95
04/23/19	5.16	11.20	5.12	6.29	11.14	8.67	3.04	7.60	16.40	4.89	13.56	3.42	2.31	3.56	4.21	11.62	3.24
09/09/19	9.72	11.62	6.40	11.12	12.10	4.00	6.19	6.44	18.92	6.02	16.04	4.72	3.69	4.96	4.68	13.06	4.72
04/28/20	3.42	11.45	5.63	4.42	12.06	6.15	3.37	3.36	16.51	4.33	3.31*	4.37	3.11	4.02	3.15	11.12	3.60
05/12/20	3.75	24.56	5.09	4.75	16.65	3.97	3.42	3.71	30.64	5.42	28.31	4.98	2.94	4.81	4.12	25.43	3.38
09/10/20	8.78	11.82	5.21	8.79	12.08	4.03	4.32	5.12	19.52	5.52	15.82	5.51	3.91	4.96	4.06	12.62	3.87
09/24/20	11.64	31.47	9.59	11.33	22.94	4.63	5.19	5.61	38.17	10.61	35.53	8.81	5.47	7.34	6.06	32.67	6.23
10/06/20	13.18	26.35	11.34	15.43	31.13	4.87	5.65	7.60	38.73	12.46	35.76	9.83	6.31	8.87	9.88	32.90	2.81
04/27/21	3.62	11.67	4.00	4.09	12.12	nm	3.21	3.41	16.34	3.56	14.71	3.36	2.51	3.95	3.10	11.49	3.40
05/10/21	4.24	16.86	5.35	5.01	28.07	6.52	3.46	3.71	29.58	7.62	30.10	4.79	3.71	5.05	4.03	31.21	4.23
05/24/21	5.15	30.42	5.15	4.26	32.13	3.77	3.16	3.51	34.16	3.53	31.02	3.80	2.42	5.10	3.26	33.27	5.52
09/07/21	10.42	11.65	9.52	12.43	12.14	4.15	7.06	7.48	19.74	6.88	15.84	6.14	6.48	6.99	6.88	13.07	6.12
09/21/21	13.21	29.83	9.45	15.50	28.57	3.80	4.77	9.65	36.50	4.10	35.15	3.71	7.29	4.45	9.02	32.27	6.14
10/04/21	15.00	30.75	9.79	18.27	31.95	4.01	5.85	10.47	38.65	7.13	36.67	4.55	8.21	3.80	10.11	33.71	9.62
	Water Elevation (ft MSL)																
05/04/16	650.56	643.24	652.40	654.64	647.27	656.77	656.24	655.45	641.69	649.21	640.67	647.17	655.29	654.57	655.53	647.90	654.93
09/07/16	647.47	642.70	647.65	650.08	646.49	656.59	656.45	653.29	638.08	648.90	637.72	645.91	654.35	654.46	654.49	646.56	653.28
04/26/17	651.82	643.76	651.92	655.39	647.55	658.68	657.01	655.54	642.22	649.39	640.83	649.04	656.58	655.28	654.80	648.27	656.57
09/27/17	651.28	643.54	652.48	655.57	647.42	657.64	656.89	655.54	639.67	649.37	638.89	648.79	656.63	655.65	656.18	647.50	656.50
05/21/18	651.08	644.03	651.43	654.01	647.89	652.69	657.81	655.54	642.43	647.90	641.28	647.18	655.33	654.39	655.47	648.37	655.39
09/10/18	645.52	642.80	651.27	655.15	646.06	657.35	656.43	653.80	635.69	649.70	635.73	646.98	654.64	654.30	652.24	646.23	654.24
04/23/19	649.82	644.05	651.58	652.81	647.83	652.49	656.85	651.25	642.25	649.41	641.02	648.47	656.63	655.50	655.08	647.90	655.95
09/09/19	645.26	643.63	650.30	647.98	646.87	657.16	653.70	652.41	639.73	648.28	638.54	647.17	655.25	654.10	654.61	646.46	654.47
04/28/20	651.56	643.80	651.07	654.68	646.91	655.01	656.52	655.49	642.14	649.97	3.31*	647.52	655.83	655.04	656.14	648.40	655.59
05/12/20	651.23	630.69	651.61	654.35	642.32	657.19	656.47	655.14	628.01	648.88	626.27	646.91	656.00	654.25	655.17	634.09	655.81
09/10/20	646.20	643.43	651.49	650.31	646.89	657.13	655.57	653.73	639.13	648.78	638.76	646.38	655.03	654.10	655.23	646.90	655.32
09/24/20	643.34	623.78	647.11	647.77	636.03	656.53	654.70	653.24	620.48	643.69	619.05	643.08	653.47	651.72	653.23	626.85	652.96
10/06/20	641.80	628.90	645.36	643.67	627.84	656.29	654.24	651.25	619.92	641.84	618.82	642.06	652.63	650.19	649.41	626.62	656.38
04/27/21	651.36	643.58	652.70	655.01	646.85	nm	656.68	655.44	642.31	650.74	639.87	648.53	656.43	655.11	656.19	648.03	655.79
05/10/21	650.74	638.39	651.35	654.09	630.90	654.64	656.43	655.14	629.07	646.68	624.48	647.10	655.23	654.01	655.26	628.31	654.96
05/24/21	649.83	624.83	651.55	654.84	626.84	657.39	656.73	655.34	624.49	650.77	623.56	648.09	656.52	653.96	656.03	626.25	653.67
09/07/21	644.56	643.60	647.18	646.67	646.83	657.01	652.83	651.37	638.91	647.42	638.74	645.75	652.46	652.07	652.41	646.45	653.07
09/21/21	641.77	625.42	647.25	643.60	630.40	657.36	655.12	649.20	622.15	650.20	619.43	648.18	651.65	654.61	650.27	627.25	653.05
10/04/21	639.98	624.50	646.91	640.83	627.02	657.15	654.04	648.38	620.00	647.17	617.91	647.34	650.73	655.26	649.18	625.81	649.57

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2021)
Superior Refining Company LLC
Superior, Wisconsin

	Monitoring Well ID and Reference Information																
Description	**MW-11**	**PZ-11**	**MW-12**	**MW-13**	**PZ-13**	**MW-14**	**MW-15**	**MW-16**	**PZ-16**	**MW-17**	**PZ-17**	**MW-18**	**MW-19**	**MW-20**	**MW-21**	**PZ-21**	**MW-22**
Top of casing (ft MSL)	**654.98**	**655.25**	**656.70**	**659.10**	**658.97**	**661.16**	**659.89**	**658.85**	**658.65**	**654.30**	**654.58**	**651.89**	**658.94**	**659.06**	**659.29**	**659.52**	**659.19**
Ground surface (ft MSL)	**652.44**	**652.61**	**653.92**	**656.08**	**656.13**	**658.14**	**657.55**	**655.86**	**655.79**	**651.47**	**651.79**	**649.36**	**656.85**	**655.99**	**656.73**	**656.72**	**657.07**
Top of screen (ft MSL)	**647.7**	**617.8**	**649.0**	**651.3**	**621.5**	**653.1**	**654.4**	**653.4**	**621.2**	**648.8**	**617.1**	**646.4**	**653.4**	**653.6**	**653.8**	**622.0**	**653.7**
Bottom of well (ft MSL)	**632.7**	**612.8**	**634.0**	**636.3**	**616.5**	**638.1**	**639.4**	**638.4**	**616.2**	**633.8**	**612.1**	**631.4**	**638.4**	**638.6**	**638.8**	**617.0**	**638.7**
	Calculated Vertical Gradient																
05/04/16	--	(0.29)	--	--	(0.30)	--	--	--	(0.51)	--	(0.32)	--	--	--	--	(0.29)	--
09/07/16	--	(0.19)	--	--	(0.15)	--	--	--	(0.56)	--	(0.42)	--	--	--	--	(0.30)	--
04/26/17	--	(0.32)	--	--	(0.32)	--	--	--	(0.49)	--	(0.32)	--	--	--	--	(0.24)	--
09/27/17	--	(0.31)	--	--	(0.33)	--	--	--	(0.58)	--	(0.39)	--	--	--	--	(0.32)	--
05/21/18	--	(0.28)	--	--	(0.25)	--	--	--	(0.48)	--	(0.25)	--	--	--	--	(0.27)	--
09/10/18	--	(0.11)	--	--	(0.37)	--	--	--	(0.67)	--	(0.52)	--	--	--	--	(0.23)	--
04/23/19	--	(0.23)	--	--	(0.20)	--	--	--	(0.34)	--	(0.31)	--	--	--	--	(0.27)	--
09/09/19	--	(0.07)	--	--	(0.05)	--	--	--	(0.47)	--	(0.37)	--	--	--	--	(0.30)	--
04/28/20	--	(0.31)	--	--	(0.31)	--	--	--	(0.49)	--	NC	--	--	--	--	(0.29)	--
09/10/20	--	(0.11)	--	--	(0.14)	--	--	--	(0.54)	--	(0.38)	--	--	--	--	(0.31)	--
04/27/21	--	(0.31)	--	--	(0.33)	--	--	--	(0.48)	--	(0.41)	--	--	--	--	(0.30)	--
09/07/21	--	(0.04)	--	--	0.01	--	--	--	(0.48)	--	(0.33)	--	--	--	--	(0.23)	--

NOTES:
Site datum = NAVD 88 feet above mean sea level (ft MSL). No measurable thickness of free product observed in any of the monitoring wells.
Negative/downward calculated vertical gradients are enclosed in parenthesis and (red).
NC - not calculated due to anomalous depth to water reading.
Free product has not been observed in the monitoring wells or piezometers since gauging began in 2016
-- = Not applicable.

FOOTNOTES:
* - anomalous data point; possible data recording error.

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Permimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/ℓ) and Results Qualifier (if any)						
Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-1 (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
MW-2 (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
PZ-2/T66							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-3D (ERP and GEMS) [(1)]							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Permimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/ℓ) and Results Qualifier (if any)						
Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
PZ-3D							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-7							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	1.9	< 0.67	< 0.98
2019	Well not sampled due to bent casing and suspect surface water infiltration						
MW-8R (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	0.31 a
PZ-8R							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Permimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/ℓ) and Results Qualifier (if any)						
Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-9B (ERP and GEMS)[(2)]							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
MW-11							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	0.22 J	< 0.11	< 0.22	< 0.18
PZ-11							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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NR 140 ES	5.0	700	60	100	800	480	2,000
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-12							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-13							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
PZ-13							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-14							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5

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5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	0.37 a	0.31 J
MW-15							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-16							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
PZ-16							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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ERP Piezometers and Permimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/ℓ) and Results Qualifier (if any)						
Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-17							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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PZ-17							
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5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-18							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
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10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-19							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Permimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/ℓ) and Results Qualifier (if any)						
Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
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10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
MW-20							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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MW-22							
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10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18

NOTES:

Concentrations are in micrograms per liter (µg/ℓ). No results are at or above an NR 140 ES or PAL.

NR 140 ES = Wisconsin Administrative Code NR 140 Enforcement Standard; 7/1/2015.

NR 140 PAL = Wisconsin Administrative Code NR 140 Preventative Action Limit; 7/1/2015.

TMBs = Sum of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

MTBE = Methyl tert butyl ether.

PVOC = Petroleum Volatile Organic Compound

(1) MW-3D is a replacement for MW-3B.

(2) MW-9B is a replacement for MW-9.

a = Estimated value, calculated using some or all values that are estimates.

J = Estimated detected value. Either certain QC criteria were not met or the concentration is between the laboratory's detection and quanitation limits.

Figures

Superior Refinery

Newton Creek

Nemadji River

Douglas County

Site Location

Approximate SRC Property Boundaries for Contiguous Operations

Approximate Fenceline Boundaries for Refining-Related Activities

0 750 1,500

Feet

SITE LOCATION
Superior Refining Company LLC (SRC)
Superior, WI

FIGURE 1

MW-16\PZ-16
655.49

MW-15
656.52

MW-2
652.69

MW-1
652.55

MW-3D\PZ-3D
653.05

MW-9B
652.91

Former
Ponds 1 & 6

MW-5/T70
656.76

Pond 2

MW-17\PZ-17
649.97

Pond 3

MW-5/T40
657.01

MW-1/T67
655.01

MW-2/T66\PZ-2/T66
655.50

MW-18
647.52

Pond 4

MW-3/T50
--

Pond 5

MW-7
657.10

MW-11\PZ-11
651.56

MW-12
651.07

MW-13\PZ-13
654.68

MW-8R\PZ-8R
660.04

MW-14
655.01

MW-20
655.04

MW-19
655.83

MW-21\PZ-21
656.14

MW-22
655.59

660'
658'
656'
654'
652'
650'

Approximate Fenceline Boundaries for Refining-Related Activities

Groundwater Contour (dashed where inferred)

Existing Monitoring Well

Existing Monitoring Well & Piezometer Pair (groundwater elevation shown is for monitoring well)

Groundwater Flow Direction

Topographic Contours

10-Foot Contours

2-Foot Contours

(655.49) Groundwater Elevation (ft MSL)

Depths to groundwater measured April 27, 2021 or prior to first purge event (MW-14). MW-14 measured May 10, 2021.

Well/Piezometer locations based on information from Gannett Fleming, 2019.

Topographic Contours Source: Douglas County, 2016

N

0 250 500

Feet

GROUNDWATER CONTOUR MAP, APRIL 2021
Superior Refining Company LLC (SRC)
Superior, WI

FIGURE 2

BARR

Barr Footer: ArcGIS 10.8.1, 2021-12-17 13:21 File: I:\Client\Husky_Energy\Superior_Refinery\Maps\Groundwater_Monitoring\ERP Site\Figure 2 Groundwater Contour Map April 2021.mxd User: EMA

Attachments

Attachment A

Pace Analytical Laboratory Reports

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

June 03, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

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

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10562243001	**MW-15**	Water	05/24/21 07:55	05/25/21 11:30
10562243002	**MW-1**	Water	05/24/21 08:03	05/25/21 11:30
10562243003	**PZ-16**	Water	05/24/21 08:12	05/25/21 11:30
10562243004	**MW-16**	Water	05/24/21 08:15	05/25/21 11:30
10562243005	**MW-2**	Water	05/24/21 08:24	05/25/21 11:30
10562243006	**MW-3D**	Water	05/24/21 08:29	05/25/21 11:30
10562243007	**PZ-3D**	Water	05/24/21 08:32	05/25/21 11:30
10562243008	**MW-9B**	Water	05/24/21 08:45	05/25/21 11:30
10562243009	**MW-17**	Water	05/24/21 08:55	05/25/21 11:30
10562243010	**PZ-17**	Water	05/24/21 08:58	05/25/21 11:30
10562243011	**MW-18**	Water	05/24/21 09:08	05/25/21 11:30
10562243012	**PZ-2/T66**	Water	05/24/21 09:16	05/25/21 11:30
10562243013	**MW-8R**	Water	05/24/21 11:36	05/25/21 11:30
10562243014	**PZ-8R**	Water	05/24/21 11:39	05/25/21 11:30
10562243015	**MW-14**	Water	05/24/21 11:55	05/25/21 11:30
10562243016	**MW-13**	Water	05/24/21 12:07	05/25/21 11:30
10562243017	**PZ-13**	Water	05/24/21 12:10	05/25/21 11:30
10562243018	**MW-12**	Water	05/24/21 12:14	05/25/21 11:30
10562243019	**MW-11**	Water	05/24/21 12:25	05/25/21 11:30
10562243020	**PZ-11**	Water	05/24/21 12:30	05/25/21 11:30
10562243021	**MW-22**	Water	05/25/21 08:04	05/25/21 11:30
10562243022	**MW-19**	Water	05/25/21 08:27	05/25/21 11:30
10562243023	**MW-21**	Water	05/25/21 08:16	05/25/21 11:30
10562243024	**PZ-21**	Water	05/25/21 08:18	05/25/21 11:30
10562243025	**MW-20**	Water	05/25/21 08:36	05/25/21 11:30
10562243026	**Trip Blank**	Water	05/24/21 00:00	05/25/21 11:30

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10562243001	**MW-15**	EPA 8260	LAP	11	PASI-G
10562243002	**MW-1**	EPA 8260	LAP	11	PASI-G
10562243003	**PZ-16**	EPA 8260	LAP	11	PASI-G
10562243004	**MW-16**	EPA 8260	LAP	11	PASI-G
10562243005	**MW-2**	EPA 8260	LAP	11	PASI-G
10562243006	**MW-3D**	EPA 8260	LAP	11	PASI-G
10562243007	**PZ-3D**	EPA 8260	LAP	11	PASI-G
10562243008	**MW-9B**	EPA 8260	LAP	11	PASI-G
10562243009	**MW-17**	EPA 8260	LAP	11	PASI-G
10562243010	**PZ-17**	EPA 8260	LAP	11	PASI-G
10562243011	**MW-18**	EPA 8260	LAP	11	PASI-G
10562243012	**PZ-2/T66**	EPA 8260	LAP	11	PASI-G
10562243013	**MW-8R**	EPA 8260	LAP	11	PASI-G
10562243014	**PZ-8R**	EPA 8260	LAP	11	PASI-G
10562243015	**MW-14**	EPA 8260	LAP	11	PASI-G
10562243016	**MW-13**	EPA 8260	LAP	11	PASI-G
10562243017	**PZ-13**	EPA 8260	LAP	11	PASI-G
10562243018	**MW-12**	EPA 8260	LAP	11	PASI-G
10562243019	**MW-11**	EPA 8260	LAP	11	PASI-G
10562243020	**PZ-11**	EPA 8260	LAP	11	PASI-G
10562243021	**MW-22**	EPA 8260	LAP	11	PASI-G
10562243022	**MW-19**	EPA 8260	LAP	11	PASI-G
10562243023	**MW-21**	EPA 8260	LAP	11	PASI-G
10562243024	**PZ-21**	EPA 8260	LAP	11	PASI-G
10562243025	**MW-20**	EPA 8260	LAP	11	PASI-G
10562243026	**Trip Blank**	EPA 8260	LAP	11	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-15 **Lab ID: 10562243001** Collected: 05/24/21 07:55 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 20:57	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 20:57	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 20:57	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 20:57	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 20:57	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 20:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 20:57	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 20:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 20:57	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/28/21 20:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/28/21 20:57	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-1 **Lab ID: 10562243002** Collected: 05/24/21 08:03 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 21:15	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 21:15	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:15	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:15	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 21:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 21:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 21:15	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 21:15	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 21:15	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/28/21 21:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 21:15	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-16 **Lab ID: 10562243003** Collected: 05/24/21 08:12 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 21:34	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 21:34	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:34	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:34	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 21:34	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 21:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 21:34	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 21:34	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		05/28/21 21:34	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 21:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/28/21 21:34	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-16 **Lab ID: 10562243004** Collected: 05/24/21 08:15 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 21:52	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 21:52	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:52	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 21:52	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 21:52	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 21:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 21:52	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 21:52	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 21:52	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 21:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/28/21 21:52	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-2 **Lab ID: 10562243005** Collected: 05/24/21 08:24 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 22:11	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 22:11	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:11	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:11	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 22:11	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 22:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 22:11	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 22:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 22:11	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 22:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 22:11	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-3D **Lab ID: 10562243006** Collected: 05/24/21 08:29 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 22:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 22:29	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:29	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:29	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 22:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 22:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 22:29	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 22:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 22:29	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 22:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 22:29	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-3D **Lab ID: 10562243007** Collected: 05/24/21 08:32 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 22:48	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 22:48	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:48	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 22:48	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 22:48	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 22:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 22:48	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 22:48	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		05/28/21 22:48	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/28/21 22:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/28/21 22:48	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-9B **Lab ID: 10562243008** Collected: 05/24/21 08:45 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 23:06	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 23:06	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:06	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:06	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 23:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 23:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 23:06	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 23:06	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 23:06	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/28/21 23:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 23:06	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-17 **Lab ID: 10562243009** Collected: 05/24/21 08:55 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 23:25	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 23:25	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:25	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:25	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 23:25	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 23:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 23:25	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 23:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		05/28/21 23:25	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 23:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/28/21 23:25	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-17 **Lab ID: 10562243010** Collected: 05/24/21 08:58 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/28/21 23:43	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/28/21 23:43	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:43	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/28/21 23:43	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/28/21 23:43	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/28/21 23:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/28/21 23:43	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/28/21 23:43	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/28/21 23:43	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/28/21 23:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		05/28/21 23:43	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-18 **Lab ID: 10562243011** Collected: 05/24/21 09:08 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 00:02	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 00:02	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:02	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:02	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 00:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 00:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 00:02	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 00:02	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/29/21 00:02	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		05/29/21 00:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/29/21 00:02	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-2/T66 **Lab ID: 10562243012** Collected: 05/24/21 09:16 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 00:21	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 00:21	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:21	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:21	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 00:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 00:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 00:21	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 00:21	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/29/21 00:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/29/21 00:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		05/29/21 00:21	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-8R **Lab ID: 10562243013** Collected: 05/24/21 11:36 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 00:39	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 00:39	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:39	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:39	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 00:39	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 00:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 00:39	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 00:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		05/29/21 00:39	2037-26-5	
4-Bromofluorobenzene (S)	73	%	70-130		1		05/29/21 00:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		05/29/21 00:39	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-8R **Lab ID: 10562243014** Collected: 05/24/21 11:39 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 00:58	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 00:58	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:58	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 00:58	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 00:58	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 00:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 00:58	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 00:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		05/29/21 00:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/29/21 00:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/29/21 00:58	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-14 **Lab ID: 10562243015** Collected: 05/24/21 11:55 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 01:17	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 01:17	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:17	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:17	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 01:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 01:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 01:17	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 01:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		05/29/21 01:17	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		05/29/21 01:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	133	%	70-130		1		05/29/21 01:17	2199-69-1	S3

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-13 **Lab ID: 10562243016** Collected: 05/24/21 12:07 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 01:35	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 01:35	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:35	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:35	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 01:35	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 01:35	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 01:35	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 01:35	1330-20-7	
Surrogates									
Toluene-d8 (S)	83	%	70-130		1		05/29/21 01:35	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/29/21 01:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/29/21 01:35	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-13 **Lab ID: 10562243017** Collected: 05/24/21 12:10 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 01:54	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 01:54	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:54	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 01:54	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 01:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 01:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 01:54	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 01:54	1330-20-7	
Surrogates									
Toluene-d8 (S)	116	%	70-130		1		05/29/21 01:54	2037-26-5	
4-Bromofluorobenzene (S)	70	%	70-130		1		05/29/21 01:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		05/29/21 01:54	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-12 **Lab ID: 10562243018** Collected: 05/24/21 12:14 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 02:13	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 02:13	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:13	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:13	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 02:13	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 02:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 02:13	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 02:13	1330-20-7	
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		05/29/21 02:13	2037-26-5	
4-Bromofluorobenzene (S)	79	%	70-130		1		05/29/21 02:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		05/29/21 02:13	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-11 **Lab ID: 10562243019** Collected: 05/24/21 12:25 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 02:31	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 02:31	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:31	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:31	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 02:31	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 02:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 02:31	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 02:31	1330-20-7	
Surrogates									
Toluene-d8 (S)	82	%	70-130		1		05/29/21 02:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/29/21 02:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		05/29/21 02:31	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-11 **Lab ID: 10562243020** Collected: 05/24/21 12:30 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		05/29/21 02:50	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		05/29/21 02:50	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:50	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		05/29/21 02:50	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		05/29/21 02:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		05/29/21 02:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		05/29/21 02:50	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		05/29/21 02:50	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		05/29/21 02:50	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/29/21 02:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/29/21 02:50	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-22 **Lab ID: 10562243021** Collected: 05/25/21 08:04 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 11:51	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 11:51	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 11:51	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 11:51	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 11:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 11:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 11:51	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 11:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		06/01/21 11:51	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/01/21 11:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/01/21 11:51	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-19 **Lab ID: 10562243022** Collected: 05/25/21 08:27 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 12:10	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 12:10	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:10	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:10	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 12:10	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 12:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 12:10	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 12:10	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		06/01/21 12:10	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/01/21 12:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/01/21 12:10	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-21 **Lab ID: 10562243023** Collected: 05/25/21 08:16 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 12:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 12:29	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:29	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:29	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 12:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 12:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 12:29	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 12:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		06/01/21 12:29	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/01/21 12:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/01/21 12:29	2199-69-1	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: PZ-21 **Lab ID: 10562243024** Collected: 05/25/21 08:18 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 12:47	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 12:47	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:47	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 12:47	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 12:47	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 12:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 12:47	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 12:47	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		06/01/21 12:47	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/01/21 12:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		06/01/21 12:47	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: MW-20 **Lab ID: 10562243025** Collected: 05/25/21 08:36 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 13:06	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 13:06	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 13:06	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 13:06	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 13:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 13:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 13:06	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 13:06	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		06/01/21 13:06	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/01/21 13:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/01/21 13:06	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Sample: Trip Blank **Lab ID: 10562243026** Collected: 05/24/21 00:00 Received: 05/25/21 11:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		06/01/21 18:01	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		06/01/21 18:01	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		06/01/21 18:01	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		06/01/21 18:01	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		06/01/21 18:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		06/01/21 18:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		06/01/21 18:01	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		06/01/21 18:01	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		06/01/21 18:01	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		06/01/21 18:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/01/21 18:01	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

QC Batch: 386603
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10562243001, 10562243002, 10562243003, 10562243004, 10562243005, 10562243006, 10562243007, 10562243008, 10562243009, 10562243010, 10562243011, 10562243012, 10562243013, 10562243014, 10562243015, 10562243016, 10562243017, 10562243018, 10562243019, 10562243020

METHOD BLANK: 2230783 Matrix: Water
Associated Lab Samples: 10562243001, 10562243002, 10562243003, 10562243004, 10562243005, 10562243006, 10562243007, 10562243008, 10562243009, 10562243010, 10562243011, 10562243012, 10562243013, 10562243014, 10562243015, 10562243016, 10562243017, 10562243018, 10562243019, 10562243020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/28/21 17:14	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/28/21 17:14	
Benzene	ug/L	<0.30	1.0	05/28/21 17:14	
Ethylbenzene	ug/L	<0.33	1.0	05/28/21 17:14	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/28/21 17:14	
Naphthalene	ug/L	<1.1	5.0	05/28/21 17:14	
Toluene	ug/L	<0.29	1.0	05/28/21 17:14	
Xylene (Total)	ug/L	<1.0	3.0	05/28/21 17:14	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	05/28/21 17:14	
4-Bromofluorobenzene (S)	%	97	70-130	05/28/21 17:14	
Toluene-d8 (S)	%	93	70-130	05/28/21 17:14	

LABORATORY CONTROL SAMPLE: 2230784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.7	89	70-132	
Ethylbenzene	ug/L	50	45.6	91	80-123	
Methyl-tert-butyl ether	ug/L	50	45.7	91	66-130	
Toluene	ug/L	50	44.0	88	80-121	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231593 2231594

Parameter	Units	10562243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	44.5	45.3	89	91	70-132	2	20	
Ethylbenzene	ug/L	<0.33	50	50	45.7	46.9	91	94	80-123	3	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.7	47.3	91	95	66-130	3	20	
Toluene	ug/L	<0.29	50	50	44.2	45.1	88	90	80-121	2	20	
Xylene (Total)	ug/L	<1.0	150	150	139	142	93	95	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						100	99	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231593 2231594

Parameter	Units	10562243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						96	95	70-130			
Toluene-d8 (S)	%						95	96	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

QC Batch: 386605
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 10562243021, 10562243022, 10562243023, 10562243024, 10562243025, 10562243026

METHOD BLANK: 2230787 Matrix: Water
Associated Lab Samples: 10562243021, 10562243022, 10562243023, 10562243024, 10562243025, 10562243026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/01/21 08:08	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/01/21 08:08	
Benzene	ug/L	<0.30	1.0	06/01/21 08:08	
Ethylbenzene	ug/L	<0.33	1.0	06/01/21 08:08	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/01/21 08:08	
Naphthalene	ug/L	<1.1	5.0	06/01/21 08:08	
Toluene	ug/L	<0.29	1.0	06/01/21 08:08	
Xylene (Total)	ug/L	<1.0	3.0	06/01/21 08:08	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	06/01/21 08:08	
4-Bromofluorobenzene (S)	%	97	70-130	06/01/21 08:08	
Toluene-d8 (S)	%	95	70-130	06/01/21 08:08	

LABORATORY CONTROL SAMPLE: 2230788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	45.3	91	70-132	
Ethylbenzene	ug/L	50	47.7	95	80-123	
Methyl-tert-butyl ether	ug/L	50	48.4	97	66-130	
Toluene	ug/L	50	45.6	91	80-121	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231936 2231937

Parameter	Units	10562227002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	352	50	50	417	411	129	118	70-132	1	20	E
Ethylbenzene	ug/L	25.0	50	50	62.8	63.3	76	77	80-123	1	20	M1
Methyl-tert-butyl ether	ug/L	<1.1	50	50	51.8	51.4	104	103	66-130	1	20	
Toluene	ug/L	7.2	50	50	51.4	50.2	88	86	80-121	3	20	
Xylene (Total)	ug/L	273	150	150	391	384	78	74	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						94	95	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494 SRC GW Samp ERP
Pace Project No.: 10562243

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10562243001	**MW-15**	EPA 8260	386603		
10562243002	**MW-1**	EPA 8260	386603		
10562243003	**PZ-16**	EPA 8260	386603		
10562243004	**MW-16**	EPA 8260	386603		
10562243005	**MW-2**	EPA 8260	386603		
10562243006	**MW-3D**	EPA 8260	386603		
10562243007	**PZ-3D**	EPA 8260	386603		
10562243008	**MW-9B**	EPA 8260	386603		
10562243009	**MW-17**	EPA 8260	386603		
10562243010	**PZ-17**	EPA 8260	386603		
10562243011	**MW-18**	EPA 8260	386603		
10562243012	**PZ-2/T66**	EPA 8260	386603		
10562243013	**MW-8R**	EPA 8260	386603		
10562243014	**PZ-8R**	EPA 8260	386603		
10562243015	**MW-14**	EPA 8260	386603		
10562243016	**MW-13**	EPA 8260	386603		
10562243017	**PZ-13**	EPA 8260	386603		
10562243018	**MW-12**	EPA 8260	386603		
10562243019	**MW-11**	EPA 8260	386603		
10562243020	**PZ-11**	EPA 8260	386603		
10562243021	**MW-22**	EPA 8260	386605		
10562243022	**MW-19**	EPA 8260	386605		
10562243023	**MW-21**	EPA 8260	386605		
10562243024	**PZ-21**	EPA 8260	386605		
10562243025	**MW-20**	EPA 8260	386605		
10562243026	**Trip Blank**	EPA 8260	386605		

40227602

BARR Barr Engineering Co. Chain of Custody

COC Number: № 589405

COC 1 of 3

Sample Origination State

☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: ______

REPORT TO	
Company:	Barr Engineering Co.
Address:	325 S. Lake Ave.
Address:	Duluth, MN 55802
Name:	Lynette Carney
email:	lcarney@barr.com
Copy to:	BarrDM@barr.com
Project Name:	SRC GW Sampling ERP

INVOICE TO	
Company:	Barr
Address:	↓
Address:	↓
Name:	↓
email:	↓
P.O.	—
Barr Project No:	49161494.01 200 202

Analysis Requested: Water / Soil — PVOC + Naphthalene (8260); % Solids

Preservative Code: B; Field Filtered Y/N: N

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y/N	Total Number Of Containers	PVOC + Naphthalene (8260)	
1. MW-15	—	—	—	05/24/21	0755	GW	N	3	X	001
2. MW-1	—	—	—	↓	0803	↓	N	3	X	002
3. PZ-16	—	—	—	↓	0812	↓	N	3	X	003
4. MW-16	—	—	—	↓	0815	↓	N	3	X	004
5. MW-2	—	—	—	↓	0824	↓	N	3	X	005
6. MW-3D	—	—	—	↓	0829	↓	N	3	X	006
7. PZ-3D	—	—	—	↓	0832	↓	N	3	X	007
8. MW-9B	—	—	—	↓	0845	↓	N	3	X	008
9. MW-17	—	—	—	↓	0855	↓	N	3	X	009
10. ~~MW-17B~~ KMJ3 PZ-17	—	—	—	↓	0858	↓	N	3	X	010

Matrix Code:
GW = Groundwater
SW = Surface Water
WW = Waste Water
DW = Drinking Water
S = Soil/Solid
SD = Sediment
O = Other

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Ascorbic Acid
J = Zn Acetate
K = Other

BARR USE ONLY	
Sampled by:	KMJ3
Barr Proj. Manager:	LMC
Barr DQ Manager:	JET
Lab Name:	Pace
Lab Location:	Green Bay, WI

Relinquished by	On Ice?	Date	Time	Received by	Date	Time
Kurt Marty	Y	5/25/21	1130	John Ott / PACE	5/25/21	11:30
John Ott / PACE	Y	5/25/21	13:00			

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: ______

Air Bill Number:

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush ______ (mm/dd/yyyy)

Lab WO: Temperature on Receipt (°C): 4.3 Custody Seal Intact? ☐ Y ☐ N ☒ None

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email** a copy to BarrDM@barr.com for tracking and filing procedures

Fedex 5/26/21 0940 [signature] 5/26/21 0940

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40227602

Barr Engineering Co. Chain of Custody

Sample Origination State
☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: № 589404
COC 2 of 3

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carmy	Name:
email: lcarmy@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: SRC GW Sampling ERP	Barr Project No: 49161494.01 200 202

Matrix Code: GW = Groundwater, SW = Surface Water, WW = Waste Water, DW = Drinking Water, S = Soil/Solid, SD = Sediment, O = Other

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, I = Ascorbic Acid, J = Zn Acetate, K = Other

Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water: PAH (8260)	Analysis Requested: Soil: % Solids	Preservative Code	Field Filtered Y/N
1. MW-18				05/24/2021	0908	GW	N	3	X			011
2. PZ-2/T66					0916		N	3	X			012
3. MW-8R					1136		N	3	X			013
4. PZ-8R					1139		N	3	X			014
5. MW-14					1155		N	3	X			015
6. MW-13					1207		N	3	X			016
7. PZ-13					1210		N	3	X			017
8. MW-12					1214		N	3	X			018
9. MW-11					1225		N	3	X			019
10. PZ-11					1230		N	3	X			020

BARR USE ONLY

Sampled by: KMJ3
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Pace
Lab Location: Green Bay, WI

Relinquished by: Kent Mutz — On Ice? Y N — Date 5/25/21 — Time 1130
Received by: Josh Gotte / PACE — Date 5/25/21 — Time 11:30

Relinquished by: Josh Gotte / PACE — On Ice? Y N — Date 5/25/21 — Time 13:00
Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: _____
Air Bill Number:

Lab WO: Temperature on Receipt (°C): 4.3 Custody Seal Intact? ☐ Y ☐ N ☐ None

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush _____ (mm/dd/yyyy)

H:\RLG\STDFORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Distribution - White-Original: Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

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40227602

Barr Engineering Co. Chain of Custody

Sample Origination State
☐ CO ☐ MI ☐ MN ☐ MO ☐ ND ☐ TX ☐ UT ☒ WI ☐ Other: _____

COC Number: № 589403
COC 3 of 3

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave.	Address:
Address: Duluth, MN 55802	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: BarrDM@barr.com	P.O. —
Project Name: SRC GW Sampling ERP	Barr Project No: 49161494.01 200 202

Matrix Code: GW = Groundwater; SW = Surface Water; WW = Waste Water; DW = Drinking Water; S = Soil/Solid; SD = Sediment; O = Other

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = Zn Acetate; K = Other

Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD (Y / N)	Total Number Of Containers	Analysis Requested: Water PVOC + Naphthalene (8260)	Analysis Requested: Soil % Solids	Preservative Code	Field Filtered Y/N
1. MW-22	—	—		05/25/2021	0804	GW	N	3	X			021
2. MW-19	—	—			0827		N	3	X			022
3. MW-21	—	—			0816		N	3	X			023
4. PZ-21	—	—			0818		N	3	X			024
5. MW-20	—	—			0836		N	3	X			025
6. trip Blank	—	—			—		N	2	X			026
7.												
8.												
9.												
10.												

BARR USE ONLY
Sampled by: KMJ
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Pace
Lab Location: Green Bay, WI

Relinquished by: Kent Monty — On Ice? (Y) N — Date 5/25/21 — Time 1130
Received by: Josh Gatti / PACE — Date 5/25/21 — Time 11:30
Relinquished by: Josh Gatti / PACE — On Ice? (Y) N — Date 5/25/2021 — Time 13:00
Received by: — Date — Time

Samples Shipped VIA: ☐ Ground Courier ☐ Air Carrier ☐ Sampler ☐ Other: _____
Air Bill Number:
Lab WO: Temperature on Receipt (°C): 4.3 Custody Seal Intact? ☐ Y ☐ N ☐ None

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush _____ (mm/dd/yyyy)

Fedex 5/26/21 0940 — 5/26/21 0940

Distribution - White-Original: Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Scan and email:** a copy to BarrDM@barr.com for tracking and filing procedures

H:\RLG\STDFORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Sample Preservation Receipt Form

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

Client Name: BARR Engineering Project # 40227602

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

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

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

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

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

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

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

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

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

Sample Preservation Receipt Form

Client Name: BARR Engineering Project #: 40227602

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
021																	3																2.5 / 5 / 10
022																	3																2.5 / 5 / 10
023																	3																2.5 / 5 / 10
024																	3																2.5 / 5 / 10
025																	3																2.5 / 5 / 10
026																	2																2.5 / 5 / 10
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5/26/21 LP

F-GB-C-046-Rev.03 (11Feb2020) Sample Preservation Receipt Form

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40227602**

40227602

Client Name: BARR Engineering

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

Tracking #: 1456 2247 5498

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

Cooler Temperature Uncorr: 1 /Corr: .5

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

Person examining contents:
Date: 5/2/24 /Initials: LO

Labeled By Initials: SKW

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

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Internal Transfer Chain of Custody

40227602

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: [X] Yes ☐ No

Workorder: 10562243 Workorder Name: 49161494 SRC GW Samp ERP Owner Received Date: 5/25/2021 Results Requested By: 6/9/2021

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL						8260 PVOC+Naphthalene (Pace-Green												LAB USE ONLY
1	MW-15	PS	5/24/2021 07:55	10562243001	Water	3						X												
2	MW-1	PS	5/24/2021 08:03	10562243002	Water	3						X												
3	PZ-16	PS	5/24/2021 08:12	10562243003	Water	3						X												
4	MW-16	PS	5/24/2021 08:15	10562243004	Water	3						X												
5	MW-2	PS	5/24/2021 08:24	10562243005	Water	3						X												
6	MW-3D	PS	5/24/2021 08:29	10562243006	Water	3						X												
7	PZ-3D	PS	5/24/2021 08:32	10562243007	Water	3						X												
8	MW-9B	PS	5/24/2021 08:45	10562243008	Water	3						X												
9	MW-17	PS	5/24/2021 08:55	10562243009	Water	3						X												
10	PZ-17	PS	5/24/2021 08:58	10562243010	Water	3						X												
11	MW-18	PS	5/24/2021 09:08	10562243011	Water	3						X												
12	PZ-2/T66	PS	5/24/2021 09:16	10562243012	Water	3						X												
13	MW-8R	PS	5/24/2021 11:36	10562243013	Water	3						X												
14	PZ-8R	PS	5/24/2021 11:39	10562243014	Water	3						X												
15	MW-14	PS	5/24/2021 11:55	10562243015	Water	3						X												
16	MW-13	PS	5/24/2021 12:07	10562243016	Water	3						X												
17	PZ-13	PS	5/24/2021 12:10	10562243017	Water	3						X												
18	MW-12	PS	5/24/2021 12:14	10562243018	Water	3						X												
19	MW-11	PS	5/24/2021 12:25	10562243019	Water	3						X												

Internal Transfer Chain of Custody

40227603

Pace Analytical®
www.pacelabs.com

[X] Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: [X] Yes [ ] No

Workorder: 10562243 Workorder Name: 49161494 SRC GW Samp ERP

Owner Received Date: 5/25/2021 Results Requested By: 6/9/2021

Report To	Subcontract To
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382	Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436

						Preserved Containers						Requested Analysis													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL						8260 PVOC+Naphthalene (Pace-Green													LAB USE ONLY
20	PZ-11	PS	5/24/2021 12:30	10562243020	Water	3						X													
21	MW-22	PS	5/25/2021 08:04	10562243021	Water	3						X													
22	MW-19	PS	5/25/2021 08:27	10562243022	Water	3						X													
23	MW-21	PS	5/25/2021 08:16	10562243023	Water	3						X													
24	PZ-21	PS	5/25/2021 08:18	10562243024	Water	3						X													
25	MW-20	PS	5/25/2021 08:36	10562243025	Water	3						X													
26	Trip Blank	PS	5/24/2021 00:00	10562243026	Water	2						X													

Transfers	Released By	Date/Time	Received By	Date/Time
1	Fedex	5/26/21 0940	[signature]	5/26/21 0940
2				
3				

Comments: BTEX, MTBE, 124 & 135 TMB and naphthalene

Cooler Temperature on Receipt .5 °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.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

October 25, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10581974001	**MW-11**	Water	10/04/21 09:32	10/06/21 13:55
10581974002	**PZ-11**	Water	10/04/21 09:35	10/06/21 13:55
10581974003	**MW-12**	Water	10/04/21 09:49	10/06/21 13:55
10581974004	**MW-13**	Water	10/04/21 09:53	10/06/21 13:55
10581974005	**PZ-13**	Water	10/04/21 09:55	10/06/21 13:55
10581974006	**MW-14**	Water	10/04/21 10:12	10/06/21 13:55
10581974007	**PZ-8R**	Water	10/04/21 10:35	10/06/21 13:55
10581974008	**MW-20**	Water	10/04/21 13:36	10/06/21 13:55
10581974009	**MW-21**	Water	10/04/21 13:50	10/06/21 13:55
10581974010	**PZ-21**	Water	10/04/21 13:55	10/06/21 13:55
10581974011	**MW-22**	Water	10/04/21 14:02	10/06/21 13:55
10581974012	**MW-19**	Water	10/04/21 14:10	10/06/21 13:55
10581974013	**MW-15**	Water	10/04/21 14:35	10/06/21 13:55
10581974014	**MW-16**	Water	10/05/21 10:03	10/06/21 13:55
10581974015	**PZ-16**	Water	10/05/21 10:05	10/06/21 13:55
10581974016	**PZ-3D**	Water	10/05/21 10:35	10/06/21 13:55
10581974017	**MW-17**	Water	10/05/21 11:10	10/06/21 13:55
10581974018	**PZ-17**	Water	10/05/21 11:14	10/06/21 13:55
10581974019	**MW-18**	Water	10/05/21 11:22	10/06/21 13:55
10581974020	**PZ-2/T66**	Water	10/05/21 11:32	10/06/21 13:55
10581974021	**Trip Blank**	Water	10/04/21 00:00	10/06/21 13:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10581974001	**MW-11**	EPA 8260D	NMB	11	PASI-M
10581974002	**PZ-11**	EPA 8260D	NMB	11	PASI-M
10581974003	**MW-12**	EPA 8260D	NMB	11	PASI-M
10581974004	**MW-13**	EPA 8260D	NMB	11	PASI-M
10581974005	**PZ-13**	EPA 8260D	NMB	11	PASI-M
10581974006	**MW-14**	EPA 8260D	NMB	11	PASI-M
10581974007	**PZ-8R**	EPA 8260D	NMB	11	PASI-M
10581974008	**MW-20**	EPA 8260D	NMB	11	PASI-M
10581974009	**MW-21**	EPA 8260D	NMB	11	PASI-M
10581974010	**PZ-21**	EPA 8260D	NMB	11	PASI-M
10581974011	**MW-22**	EPA 8260D	NMB	11	PASI-M
10581974012	**MW-19**	EPA 8260D	NMB	11	PASI-M
10581974013	**MW-15**	EPA 8260D	NMB	11	PASI-M
10581974014	**MW-16**	EPA 8260D	NMB	11	PASI-M
10581974015	**PZ-16**	EPA 8260D	NMB	11	PASI-M
10581974016	**PZ-3D**	EPA 8260D	NMB	11	PASI-M
10581974017	**MW-17**	EPA 8260D	NMB	11	PASI-M
10581974018	**PZ-17**	EPA 8260D	NMB	11	PASI-M
10581974019	**MW-18**	EPA 8260D	NMB	11	PASI-M
10581974020	**PZ-2/T66**	EPA 8260D	NMB	11	PASI-M
10581974021	**Trip Blank**	EPA 8260D	NMB	11	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-11 **Lab ID: 10581974001** Collected: 10/04/21 09:32 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 05:41	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/14/21 05:41	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/14/21 05:41	1634-04-4	
Naphthalene	**0.22J**	ug/L	0.67	0.20	1		10/14/21 05:41	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/14/21 05:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 05:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/14/21 05:41	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/14/21 05:41	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/14/21 05:41	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/14/21 05:41	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		10/14/21 05:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-11 **Lab ID: 10581974002** Collected: 10/04/21 09:35 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 05:59	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/14/21 05:59	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/14/21 05:59	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/14/21 05:59	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/14/21 05:59	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 05:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/14/21 05:59	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/14/21 05:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/14/21 05:59	2199-69-1	
4-Bromofluorobenzene (S)	97	%.	75-125		1		10/14/21 05:59	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		10/14/21 05:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-12 **Lab ID: 10581974003** Collected: 10/04/21 09:49 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:17	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/14/21 06:17	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/14/21 06:17	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/14/21 06:17	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/14/21 06:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/14/21 06:17	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/14/21 06:17	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/14/21 06:17	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/14/21 06:17	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/14/21 06:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-13 **Lab ID: 10581974004** Collected: 10/04/21 09:53 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:36	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/14/21 06:36	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/14/21 06:36	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/14/21 06:36	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/14/21 06:36	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/14/21 06:36	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/14/21 06:36	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/14/21 06:36	2199-69-1	
4-Bromofluorobenzene (S)	96	%.	75-125		1		10/14/21 06:36	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		10/14/21 06:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-13 **Lab ID: 10581974005** Collected: 10/04/21 09:55 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:54	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/14/21 06:54	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/14/21 06:54	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/14/21 06:54	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/14/21 06:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/14/21 06:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/14/21 06:54	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/14/21 06:54	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/14/21 06:54	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/14/21 06:54	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		10/14/21 06:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-14 **Lab ID: 10581974006** Collected: 10/04/21 10:12 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 03:29	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 03:29	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 03:29	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 03:29	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 03:29	108-88-3	
1,2,4-Trimethylbenzene	**0.27J**	ug/L	0.40	0.12	1		10/15/21 03:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 03:29	108-67-8	
Xylene (Total)	**0.31J**	ug/L	0.59	0.18	1		10/15/21 03:29	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/15/21 03:29	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/15/21 03:29	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 03:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-8R **Lab ID: 10581974007** Collected: 10/04/21 10:35 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 03:48	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 03:48	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 03:48	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 03:48	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 03:48	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 03:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 03:48	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 03:48	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 03:48	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/15/21 03:48	460-00-4	
Toluene-d8 (S)	95	%.	75-125		1		10/15/21 03:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-20 **Lab ID: 10581974008** Collected: 10/04/21 13:36 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:06	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 04:06	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 04:06	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 04:06	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 04:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 04:06	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 04:06	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 04:06	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/15/21 04:06	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 04:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-21 **Lab ID: 10581974009** Collected: 10/04/21 13:50 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:24	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 04:24	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 04:24	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 04:24	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 04:24	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 04:24	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 04:24	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 04:24	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		10/15/21 04:24	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/15/21 04:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-21 **Lab ID: 10581974010** Collected: 10/04/21 13:55 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:42	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 04:42	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 04:42	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 04:42	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 04:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 04:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 04:42	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 04:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 04:42	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/15/21 04:42	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 04:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-22 **Lab ID: 10581974011** Collected: 10/04/21 14:02 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:01	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 05:01	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 05:01	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 05:01	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 05:01	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 05:01	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 05:01	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/15/21 05:01	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/15/21 05:01	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/15/21 05:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-19 **Lab ID: 10581974012** Collected: 10/04/21 14:10 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:19	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 05:19	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 05:19	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 05:19	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 05:19	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 05:19	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 05:19	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 05:19	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/15/21 05:19	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 05:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-15 **Lab ID: 10581974013** Collected: 10/04/21 14:35 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:37	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 05:37	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 05:37	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 05:37	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 05:37	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 05:37	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 05:37	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/15/21 05:37	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/15/21 05:37	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 05:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-16 **Lab ID: 10581974014** Collected: 10/05/21 10:03 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:13	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 02:13	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 02:13	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 02:13	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 02:13	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 02:13	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 02:13	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 02:13	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/16/21 02:13	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/16/21 02:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-16 **Lab ID: 10581974015** Collected: 10/05/21 10:05 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:31	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 02:31	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 02:31	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 02:31	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 02:31	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 02:31	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 02:31	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 02:31	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/16/21 02:31	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/16/21 02:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-3D **Lab ID: 10581974016** Collected: 10/05/21 10:35 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:49	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 02:49	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 02:49	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 02:49	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 02:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 02:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 02:49	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 02:49	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 02:49	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/16/21 02:49	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/16/21 02:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-17 **Lab ID: 10581974017** Collected: 10/05/21 11:10 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:08	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 03:08	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 03:08	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 03:08	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 03:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 03:08	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 03:08	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	70-130		1		10/16/21 03:08	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/16/21 03:08	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/16/21 03:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-17 **Lab ID: 10581974018** Collected: 10/05/21 11:14 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:26	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 03:26	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 03:26	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 03:26	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 03:26	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 03:26	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 03:26	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 03:26	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/16/21 03:26	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/16/21 03:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: MW-18 **Lab ID: 10581974019** Collected: 10/05/21 11:22 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:44	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 03:44	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 03:44	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 03:44	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 03:44	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 03:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 03:44	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 03:44	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 03:44	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/16/21 03:44	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/16/21 03:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: PZ-2/T66 **Lab ID: 10581974020** Collected: 10/05/21 11:32 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 04:03	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/16/21 04:03	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/16/21 04:03	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/16/21 04:03	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/16/21 04:03	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/16/21 04:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/16/21 04:03	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/16/21 04:03	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/16/21 04:03	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/16/21 04:03	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/16/21 04:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Sample: Trip Blank **Lab ID: 10581974021** Collected: 10/04/21 00:00 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:55	71-43-2	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 05:55	100-41-4	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 05:55	1634-04-4	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 05:55	91-20-3	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 05:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 05:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 05:55	108-67-8	
Xylene (Total)	**<0.18**	ug/L	0.59	0.18	1		10/15/21 05:55	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	70-130		1		10/15/21 05:55	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/15/21 05:55	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 05:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

QC Batch: 776588
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581974001, 10581974002, 10581974003, 10581974004, 10581974005

METHOD BLANK: 4136958 Matrix: Water
Associated Lab Samples: 10581974001, 10581974002, 10581974003, 10581974004, 10581974005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/14/21 00:49	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/14/21 00:49	
Benzene	ug/L	<0.12	0.40	10/14/21 00:49	
Ethylbenzene	ug/L	<0.069	0.23	10/14/21 00:49	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/14/21 00:49	
Naphthalene	ug/L	<0.20	0.67	10/14/21 00:49	
Toluene	ug/L	<0.11	0.38	10/14/21 00:49	
Xylene (Total)	ug/L	<0.18	0.59	10/14/21 00:49	
1,2-Dichlorobenzene-d4 (S)	%.	101	70-130	10/14/21 00:49	
4-Bromofluorobenzene (S)	%.	97	75-125	10/14/21 00:49	
Toluene-d8 (S)	%.	98	75-125	10/14/21 00:49	

LABORATORY CONTROL SAMPLE & LCSD: 4136959 4136960

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.2	18.9	96	95	75-126	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.3	18.9	96	94	75-125	2	20	
Benzene	ug/L	20	19.9	19.2	99	96	73-125	4	20	
Ethylbenzene	ug/L	20	18.3	17.7	91	88	75-125	3	20	
Methyl-tert-butyl ether	ug/L	20	20.9	21.1	105	106	75-125	1	20	
Naphthalene	ug/L	20	21.3	23.1	107	115	69-127	8	20	
Toluene	ug/L	20	19.8	19.5	99	97	75-125	1	20	
Xylene (Total)	ug/L	60	58.5	56.6	98	94	75-125	3	20	
1,2-Dichlorobenzene-d4 (S)	%.				101	101	70-130			
4-Bromofluorobenzene (S)	%.				98	98	75-125			
Toluene-d8 (S)	%.				100	99	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136971 4136972

Parameter	Units	10581854001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.60	100	100	91.3	94.8	91	95	68-126	4	30	
1,3,5-Trimethylbenzene	ug/L	7.0	100	100	98.6	102	92	95	67-125	3	30	
Benzene	ug/L	892	100	100	992	1010	100	118	60-125	2	30	
Ethylbenzene	ug/L	49.6	100	100	137	138	87	89	61-125	1	30	
Methyl-tert-butyl ether	ug/L	<0.90	100	100	94.7	94.4	95	94	61-125	0	30	
Naphthalene	ug/L	31.4	100	100	141	144	109	113	54-127	2	30	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136971 4136972

Parameter	Units	10581854001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	1.9J	100	100	92.8	94.2	91	92	61-125	1	30	
Xylene (Total)	ug/L	1.6J	300	300	282	286	93	95	63-125	2	30	
1,2-Dichlorobenzene-d4 (S)	%.						100	100	70-130			
4-Bromofluorobenzene (S)	%.						98	99	75-125			
Toluene-d8 (S)	%.						97	97	75-125			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

QC Batch: 776975
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581974006, 10581974007, 10581974008, 10581974009, 10581974010, 10581974011, 10581974012, 10581974013, 10581974021

METHOD BLANK: 4138758 Matrix: Water
Associated Lab Samples: 10581974006, 10581974007, 10581974008, 10581974009, 10581974010, 10581974011, 10581974012, 10581974013, 10581974021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/15/21 00:27	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/15/21 00:27	
Benzene	ug/L	<0.12	0.40	10/15/21 00:27	
Ethylbenzene	ug/L	<0.069	0.23	10/15/21 00:27	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/15/21 00:27	
Naphthalene	ug/L	<0.20	0.67	10/15/21 00:27	
Toluene	ug/L	<0.11	0.38	10/15/21 00:27	
Xylene (Total)	ug/L	<0.18	0.59	10/15/21 00:27	
1,2-Dichlorobenzene-d4 (S)	%.	102	70-130	10/15/21 00:27	
4-Bromofluorobenzene (S)	%.	99	75-125	10/15/21 00:27	
Toluene-d8 (S)	%.	96	75-125	10/15/21 00:27	

LABORATORY CONTROL SAMPLE & LCSD: 4138759 4138760

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.7	18.5	94	93	75-126	1	20	
1,3,5-Trimethylbenzene	ug/L	20	18.7	18.7	93	93	75-125	0	20	
Benzene	ug/L	20	19.8	19.5	99	98	73-125	1	20	
Ethylbenzene	ug/L	20	17.6	17.6	88	88	75-125	0	20	
Methyl-tert-butyl ether	ug/L	20	21.1	20.5	105	103	75-125	3	20	
Naphthalene	ug/L	20	20.8	22.1	104	110	69-127	6	20	
Toluene	ug/L	20	19.6	19.2	98	96	75-125	2	20	
Xylene (Total)	ug/L	60	60.3	59.8	100	100	75-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	100	70-130			
4-Bromofluorobenzene (S)	%.				101	101	75-125			
Toluene-d8 (S)	%.				98	96	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138766 4138767

Parameter	Units	10581974006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	0.27J	40	40	29.0	28.1	72	70	68-126	3	30	
1,3,5-Trimethylbenzene	ug/L	<0.096	40	40	29.4	28.8	73	72	67-125	2	30	
Benzene	ug/L	<0.12	40	40	36.5	34.1	91	85	60-125	7	30	
Ethylbenzene	ug/L	<0.069	40	40	30.0	28.8	75	72	61-125	4	30	
Methyl-tert-butyl ether	ug/L	<0.18	40	40	37.3	33.8	93	84	61-125	10	30	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138766 4138767

Parameter	Units	10581974006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	<0.20	40	40	33.6	33.3	84	83	54-127	1	30	
Toluene	ug/L	<0.11	40	40	34.7	32.1	87	80	61-125	8	30	
Xylene (Total)	ug/L	0.31J	120	120	98.8	93.3	82	77	63-125	6	30	
1,2-Dichlorobenzene-d4 (S)	%.						99	100	70-130			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						98	97	75-125			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

QC Batch: 777221
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581974014, 10581974015, 10581974016, 10581974017, 10581974018, 10581974019, 10581974020

METHOD BLANK: 4140004 Matrix: Water
Associated Lab Samples: 10581974014, 10581974015, 10581974016, 10581974017, 10581974018, 10581974019, 10581974020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/15/21 23:10	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/15/21 23:10	
Benzene	ug/L	<0.12	0.40	10/15/21 23:10	
Ethylbenzene	ug/L	<0.069	0.23	10/15/21 23:10	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/15/21 23:10	
Naphthalene	ug/L	<0.20	0.67	10/15/21 23:10	
Toluene	ug/L	<0.11	0.38	10/15/21 23:10	
Xylene (Total)	ug/L	<0.18	0.59	10/15/21 23:10	
1,2-Dichlorobenzene-d4 (S)	%.	99	70-130	10/15/21 23:10	
4-Bromofluorobenzene (S)	%.	100	75-125	10/15/21 23:10	
Toluene-d8 (S)	%.	96	75-125	10/15/21 23:10	

LABORATORY CONTROL SAMPLE & LCSD: 4140005 4140006

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.2	17.2	91	86	75-126	5	20	
1,3,5-Trimethylbenzene	ug/L	20	18.3	17.4	92	87	75-125	5	20	
Benzene	ug/L	20	19.2	18.1	96	91	73-125	6	20	
Ethylbenzene	ug/L	20	17.3	16.2	87	81	75-125	6	20	
Methyl-tert-butyl ether	ug/L	20	20.6	20.7	103	103	75-125	0	20	
Naphthalene	ug/L	20	20.7	21.5	103	108	69-127	4	20	
Toluene	ug/L	20	18.7	17.8	94	89	75-125	5	20	
Xylene (Total)	ug/L	60	57.0	54.9	95	91	75-125	4	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	100	70-130			
4-Bromofluorobenzene (S)	%.				100	100	75-125			
Toluene-d8 (S)	%.				98	98	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4148110 4148111

Parameter	Units	10581977004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	147	40	40	172	161	62	35	68-126	7	30	M1
1,3,5-Trimethylbenzene	ug/L	2.4	40	40	26.7	24.7	61	56	67-125	8	30	M1
Benzene	ug/L	642	40	40	647	618	12	-59	60-125	5	30	E,P6
Ethylbenzene	ug/L	85.7	40	40	108	102	55	42	61-125	5	30	M1
Methyl-tert-butyl ether	ug/L	<0.36	40	40	30.1	27.7	75	69	61-125	8	30	
Naphthalene	ug/L	31.3	40	40	61.5	59.9	75	71	54-127	3	30	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4148110 4148111

Parameter	Units	10581977004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	6.3	40	40	34.1	30.6	70	61	61-125	11	30	
Xylene (Total)	ug/L	282	120	120	355	335	60	44	63-125	6	30	MS
1,2-Dichlorobenzene-d4 (S)	%.						101	100	70-130			
4-Bromofluorobenzene (S)	%.						99	101	75-125			
Toluene-d8 (S)	%.						97	96	75-125			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494 SRC GW Sampling ERP
Pace Project No.: 10581974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10581974001	**MW-11**	EPA 8260D	776588		
10581974002	**PZ-11**	EPA 8260D	776588		
10581974003	**MW-12**	EPA 8260D	776588		
10581974004	**MW-13**	EPA 8260D	776588		
10581974005	**PZ-13**	EPA 8260D	776588		
10581974006	**MW-14**	EPA 8260D	776975		
10581974007	**PZ-8R**	EPA 8260D	776975		
10581974008	**MW-20**	EPA 8260D	776975		
10581974009	**MW-21**	EPA 8260D	776975		
10581974010	**PZ-21**	EPA 8260D	776975		
10581974011	**MW-22**	EPA 8260D	776975		
10581974012	**MW-19**	EPA 8260D	776975		
10581974013	**MW-15**	EPA 8260D	776975		
10581974014	**MW-16**	EPA 8260D	777221		
10581974015	**PZ-16**	EPA 8260D	777221		
10581974016	**PZ-3D**	EPA 8260D	777221		
10581974017	**MW-17**	EPA 8260D	777221		
10581974018	**PZ-17**	EPA 8260D	777221		
10581974019	**MW-18**	EPA 8260D	777221		
10581974020	**PZ-2/T66**	EPA 8260D	777221		
10581974021	**Trip Blank**	EPA 8260D	776975		

ineering Co. Chain of Custody

Sample Origination State:

n Arbor	☒ Duluth	☐ Hibbing	☐ Minneapolis	
Bismarck	☐ Grand Rapids	☐ Jefferson City	☐ Salt Lake City	

☐ KS	☐ MO	☐ UT	
☐ MI	☐ ND	☒ WI	
☐ MN	☐ SD	Other:	

COC Number: 57639

COC 1 of 3

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave, Duluth MN	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: datamgt@barr.com	P.O. —
Project Name: SRC GW Sampling ERP	Barr Project No: 49161494.01 2023

Matrix Code: GW = Groundwater, SW = Surface Water, WW = Waste Water, DW = Drinking Water, S = Soil/Solid, SD = Sediment, O = Other

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, I = Ascorbic Acid, J = NH_4Cl, K = Zn Acetate, O = Other

Location	Sample Depth Start	Sample Depth Stop	Sample Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water — PVC + Naphthalene (EPA 8260)	Analysis Requested: Soil — % Solids	Preservative Code	Field Filtered Y/N	
1. MW-11				10/04/2021	0932	GW	N	3	X				001
2. PZ-11					0935		N	3	X				002
3. MW-12					0949		N	3	X				003
4. MW-13					0953		N	3	X				004
5. PZ-13					0955		N	3	X				005
6. MW-14					1012		N	3	X				006
7. ~~PZ~~-8R					1035		N	3	X				007
8. MW-20					1336		N	3	X				008
9. MW-21					1350		N	3	X				009
10. PZ-21					1355		N	3	X				010

WO#: 10581974

10581974

BARR USE ONLY	Relinquished by	On Ice? Y N	Date	Time	Received by	Date	Time
Sampled by: KMJ3	[signature]	Y	10/5/21	1247	[signature] Place	10/5/21	12:50
Barr Proj. Manager: LMC	Relinquished by:	On Ice? Y N	Date	Time	Received by:	Date	Time
Barr DQ Manager: JET						10/6/21	1355
Lab Name: Pace	Samples Shipped VIA: ☐ Courier ☐ Federal Express ☐ Sampler ☐ Other:		Air Bill Number:		Requested Due Date: ☒ Standard Turn Around Time ☐ Rush (mm/dd/yyyy)		
Lab Location: Minneapolis, MN	Lab WO:	Temperature on Receipt (°C): 1.5	Custody Seal Intact? ☐ Y ☐ N ☒ None				

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Pink Copy:** Send to Data Management Administrators.

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Barr Engineering Co. Chain of Custody

BARR

☐ Ann Arbor ☒ Duluth ☐ Hibbing ☐ Minneapolis
☐ Bismarck ☐ Grand Rapids ☐ Jefferson City ☐ Salt Lake City

Sample Origination State: ☐ KS ☐ MO ☐ UT ☐ MI ☐ ND ☒ WI ☐ MN ☐ SD Other: ____

COC Number: **57638**

COC 2 of 3

REPORT TO		INVOICE TO	
Company:	Barr Engineering Co.	Company:	Barr
Address:	325 S. Lake Ave, Duluth MN	Address:	↓
Name:	Lynette Carney	Name:	↓
email:	lcarney@barr.com	email:	↓
Copy to:	datamgt@barr.com	P.O.	—
Project Name:	SRC GW Sampling ERP	Barr Project No:	49161494.01 200 203

Analysis Requested: Water / Soil — PVOC + Naphthalene (EPA 8260); % Solids

Preservative Code: B; Field Filtered Y/N: N

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	PVOC + Naphthalene (EPA 8260)		
1. MW-22	—	—	—	10/04/2021	1402	GW	N	3	X		011
2. MW-19	—	—		↓	1410	↓	N	3	X		012
3. MW-15	—	—	—	↓	1435	↓	N	3	X		013
4. MW-16	—	—		10/05/2021	1003	↓	N	3	X		014
5. PZ-16	—	—		↓	1005	↓	N	3	X		015
6. PZ-3D	—	—		↓	1035	↓	N	3	X		016
7. MW-17	—	—		↓	1110	↓	N	3	X		017
8. PZ-17	—	—		↓	1114	↓	N	3	X		018
9. MW-18	—	—		↓	1122	↓	N	3	X		019
10. PZ-2/TGG	—	—		↓	1132	↓	N	3	X		020

Matrix Code: GW = Groundwater; SW = Surface Water; WW = Waste Water; DW = Drinking Water; S = Soil/Solid; SD = Sediment; O = Other

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; I = Ascorbic Acid; J = NH_4Cl; K = Zn Acetate; O = Other

BARR USE ONLY

Sampled by: KMJB
Barr Proj. Manager: LMC
Barr DQ Manager: JET
Lab Name: Pace
Lab Location: Minneapolis, MN

Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y	10/5/21	1247	[signature] / Pace	10/5/21	12:50
	Y N			[signature] PACE	10/6/21	1355

Samples Shipped VIA: ☐ Courier ☐ Federal Express ☐ Sampler ☐ Other: ____

Air Bill Number:

Requested Due Date: ☒ Standard Turn Around Time ☐ Rush ____ (mm/dd/yyyy)

Lab WO: Temperature on Receipt (°C): 1.5 Custody Seal Intact? ☐ Y ☐ N ☒ None

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Pink Copy:** Send to Data Management Administrators.

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Barr Engineering Co. Chain of Custody

BARR

☐ Ann Arbor ☒ Duluth ☐ Hibbing ☐ Minneapolis
☐ Bismarck ☐ Grand Rapids ☐ Jefferson City ☐ Salt Lake City

Sample Origination State: ☐ KS ☐ MO ☐ UT ☐ MI ☐ ND ☒ WI ☐ MN ☐ SD Other: ____

COC Number: **57637**

COC 3 of 3

REPORT TO	
Company:	Barr Engineering Co.
Address:	325 S. Lake Ave Duluth MN
Name:	Lynette Carney
email:	lcarney@barr.com
Copy to:	datamgt@barr.com
Project Name:	SRC GW Sampling ERP

INVOICE TO	
Company:	Barr
Address:	↓
Name:	↓
email:	↓
P.O.	—
Barr Project No:	49151494.01 200 203

Analysis Requested: Water: PVOC + Naphthalene (EPA 8260); Soil; % Solids

Perform MS/MSD Y / N; Total Number Of Containers

Preservative Code: B; Field Filtered Y/N: N

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y/N	Total Number Of Containers	PVOC + Naphthalene (EPA 8260)	
1. Trip Blank	—	—		10/04/2021	—	GW	N	2	X	021 ~~120~~ 10/6/21
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Matrix Code:
GW = Groundwater
SW = Surface Water
WW = Waste Water
DW = Drinking Water
S = Soil/Solid
SD = Sediment
O = Other

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Ascorbic Acid
J = NH_4Cl
K = Zn Acetate
O = Other

BARR USE ONLY	
Sampled by:	KMJ 3
Barr Proj. Manager:	LMC
Barr DQ Manager:	JET
Lab Name:	Pace
Lab Location:	Minneapolis, MN

Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Ⓨ N	10/5/21	1247	[signature] / Pace	10/5/21	12:50
	Y N			[signature] PACE	10/6/21	1355

Samples Shipped VIA: ☐ Courier ☐ Federal Express ☐ Sampler ☐ Other: ____

Air Bill Number:

Lab WO: Temperature on Receipt (°C): 1.5 Custody Seal Intact? ☐ Y ☐ N ☒ None

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush ____ (mm/dd/yyyy)

Distribution - **White-Original:** Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Pink Copy:** Send to Data Management Administrators.

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 14Apr2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.02**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Barr

Project #:

WO#: 10581974

PM: AA1 **Due Date: 10/13/21**

CLIENT: BARR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ **See Exceptions** ☐ **ENV-FRM-MIN4-0142**

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) ☐ OS418-LS ☐ T4(0254) ☐ T5(0489) ☐ 160285052 **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:** 4.7 °C **Average Corrected Temp (no temp blank only):** _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: NA **Cooler Temp Corrected w/temp blank:** 4.7 °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Date/Initials of Person Examining Contents: 10/11 MM

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ 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?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other _____				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 320666 (2)

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/7/21

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: _____

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

October 26, 2021

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,

Amanda J Albrecht

Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10581978001	**MW-8R**	Water	10/04/21 10:30	10/06/21 13:55
10581978002	**MW-1**	Water	10/04/21 14:45	10/06/21 13:55
10581978003	**MW-2**	Water	10/05/21 10:12	10/06/21 13:55
10581978004	**MW-3D**	Water	10/05/21 10:32	10/06/21 13:55
10581978005	**MW-9B**	Water	10/05/21 10:50	10/06/21 13:55
10581978006	**Trip Blank**	Water	10/05/21 00:00	10/06/21 13:55

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1700 Elm Street
Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10581978001	**MW-8R**	EPA 200.7	DM	4	PASI-M
		EPA 8260D	NMB	64	PASI-M
		SM 2320B	AB3	1	PASI-M
10581978002	**MW-1**	EPA 200.7	DM	4	PASI-M
		EPA 8260D	NMB	64	PASI-M
		SM 2320B	AB3	1	PASI-M
10581978003	**MW-2**	EPA 200.7	DM	4	PASI-M
		EPA 8260D	NMB	64	PASI-M
		SM 2320B	AB3	1	PASI-M
10581978004	**MW-3D**	EPA 200.7	DM	4	PASI-M
		EPA 8260D	NMB	64	PASI-M
		SM 2320B	AB3	1	PASI-M
10581978005	**MW-9B**	EPA 200.7	DM	4	PASI-M
		EPA 8260D	NMB	64	PASI-M
		SM 2320B	AB3	1	PASI-M
10581978006	**Trip Blank**	EPA 8260D	NMB	64	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-8R **Lab ID: 10581978001** Collected: 10/04/21 10:30 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Calcium, Dissolved	**83100**	ug/L	76.9	23.1	1	10/11/21 06:50	10/20/21 16:29	7440-70-2	
Lead, Dissolved	**<2.6**	ug/L	8.6	2.6	1	10/11/21 06:50	10/20/21 16:29	7439-92-1	
Magnesium, Dissolved	**59300**	ug/L	26.1	7.8	1	10/11/21 06:50	10/20/21 16:29	7439-95-4	
Total Hardness by 2340B, Dissolved	**452000**	ug/L	255	76.7	1	10/11/21 06:50	10/20/21 16:29		
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/15/21 17:03	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/15/21 17:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/15/21 17:03	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/15/21 17:03	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/15/21 17:03	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/15/21 17:03	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/15/21 17:03	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/15/21 17:03	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/15/21 17:03	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/15/21 17:03	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 17:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/15/21 17:03	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/15/21 17:03	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/15/21 17:03	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/15/21 17:03	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:03	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 17:03	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:03	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/15/21 17:03	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/15/21 17:03	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/15/21 17:03	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/15/21 17:03	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/15/21 17:03	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 17:03	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/15/21 17:03	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/15/21 17:03	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/15/21 17:03	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:03	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/15/21 17:03	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/15/21 17:03	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/15/21 17:03	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/15/21 17:03	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/15/21 17:03	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/15/21 17:03	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/15/21 17:03	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/15/21 17:03	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/15/21 17:03	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-8R **Lab ID: 10581978001** Collected: 10/04/21 10:30 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:03	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 17:03	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/15/21 17:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/15/21 17:03	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 17:03	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/15/21 17:03	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 17:03	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:03	100-42-5	
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/15/21 17:03	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 17:03	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:03	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/15/21 17:03	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/15/21 17:03	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/15/21 17:03	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/15/21 17:03	10061-01-5	
m&p-Xylene	**0.19J**	ug/L	0.59	0.18	1		10/15/21 17:03	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/15/21 17:03	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/15/21 17:03	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/15/21 17:03	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/15/21 17:03	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/15/21 17:03	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 17:03	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/15/21 17:03	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:03	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/15/21 17:03	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125		1		10/15/21 17:03	460-00-4	
Toluene-d8 (S)	96	%.	75-125		1		10/15/21 17:03	2037-26-5	
2320B Alkalinity, Dissolved	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3, Dissolved	**465**	mg/L	6.1	1.8	1		10/18/21 13:33		P6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-1 **Lab ID: 10581978002** Collected: 10/04/21 14:45 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Calcium, Dissolved	**40200**	ug/L	76.9	23.1	1	10/11/21 06:50	10/20/21 16:34	7440-70-2	
Lead, Dissolved	**<2.6**	ug/L	8.6	2.6	1	10/11/21 06:50	10/20/21 16:34	7439-92-1	
Magnesium, Dissolved	**40600**	ug/L	26.1	7.8	1	10/11/21 06:50	10/20/21 16:34	7439-95-4	
Total Hardness by 2340B, Dissolved	**267000**	ug/L	255	76.7	1	10/11/21 06:50	10/20/21 16:34		
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/15/21 17:21	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/15/21 17:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/15/21 17:21	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/15/21 17:21	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/15/21 17:21	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/15/21 17:21	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/15/21 17:21	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/15/21 17:21	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/15/21 17:21	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/15/21 17:21	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 17:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/15/21 17:21	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/15/21 17:21	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/15/21 17:21	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/15/21 17:21	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:21	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/15/21 17:21	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:21	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/15/21 17:21	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/15/21 17:21	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/15/21 17:21	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/15/21 17:21	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/15/21 17:21	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/15/21 17:21	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/15/21 17:21	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/15/21 17:21	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/15/21 17:21	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:21	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/15/21 17:21	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/15/21 17:21	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/15/21 17:21	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/15/21 17:21	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/15/21 17:21	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/15/21 17:21	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/15/21 17:21	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/15/21 17:21	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/15/21 17:21	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-1 **Lab ID: 10581978002** Collected: 10/04/21 14:45 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/15/21 17:21	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/15/21 17:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/15/21 17:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/15/21 17:21	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/15/21 17:21	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/15/21 17:21	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/15/21 17:21	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:21	100-42-5	
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/15/21 17:21	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 17:21	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:21	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/15/21 17:21	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/15/21 17:21	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/15/21 17:21	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/15/21 17:21	10061-01-5	
m&p-Xylene	**<0.18**	ug/L	0.59	0.18	1		10/15/21 17:21	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/15/21 17:21	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/15/21 17:21	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/15/21 17:21	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/15/21 17:21	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/15/21 17:21	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/15/21 17:21	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/15/21 17:21	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/15/21 17:21	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	70-130		1		10/15/21 17:21	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/15/21 17:21	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		10/15/21 17:21	2037-26-5	
2320B Alkalinity, Dissolved	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3, Dissolved	**365**	mg/L	6.1	1.8	1		10/18/21 14:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-2 **Lab ID: 10581978003** Collected: 10/05/21 10:12 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Calcium, Dissolved	**47500**	ug/L	76.9	23.1	1	10/11/21 06:50	10/20/21 16:36	7440-70-2	
Lead, Dissolved	**<2.6**	ug/L	8.6	2.6	1	10/11/21 06:50	10/20/21 16:36	7439-92-1	
Magnesium, Dissolved	**57100**	ug/L	26.1	7.8	1	10/11/21 06:50	10/20/21 16:36	7439-95-4	
Total Hardness by 2340B, Dissolved	**354000**	ug/L	255	76.7	1	10/11/21 06:50	10/20/21 16:36		
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/18/21 18:45	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/18/21 18:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/18/21 18:45	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/18/21 18:45	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/18/21 18:45	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/18/21 18:45	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/18/21 18:45	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/18/21 18:45	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/18/21 18:45	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/18/21 18:45	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 18:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/18/21 18:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/18/21 18:45	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/18/21 18:45	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/18/21 18:45	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/18/21 18:45	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/18/21 18:45	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 18:45	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/18/21 18:45	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 18:45	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/18/21 18:45	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 18:45	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/18/21 18:45	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 18:45	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/18/21 18:45	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/18/21 18:45	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/18/21 18:45	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/18/21 18:45	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/18/21 18:45	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/18/21 18:45	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 18:45	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/18/21 18:45	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/18/21 18:45	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/18/21 18:45	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/18/21 18:45	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/18/21 18:45	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/18/21 18:45	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-2 **Lab ID: 10581978003** Collected: 10/05/21 10:12 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/18/21 18:45	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/18/21 18:45	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/18/21 18:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/18/21 18:45	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/18/21 18:45	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/18/21 18:45	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/18/21 18:45	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 18:45	100-42-5	
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/18/21 18:45	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 18:45	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 18:45	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/18/21 18:45	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/18/21 18:45	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/18/21 18:45	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/18/21 18:45	10061-01-5	
m&p-Xylene	**<0.18**	ug/L	0.59	0.18	1		10/18/21 18:45	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/18/21 18:45	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/18/21 18:45	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 18:45	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 18:45	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/18/21 18:45	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 18:45	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 18:45	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 18:45	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/18/21 18:45	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		10/18/21 18:45	460-00-4	
Toluene-d8 (S)	93	%.	75-125		1		10/18/21 18:45	2037-26-5	
2320B Alkalinity, Dissolved	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3, Dissolved	**413**	mg/L	6.1	1.8	1		10/18/21 14:13		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-3D **Lab ID: 10581978004** Collected: 10/05/21 10:32 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Calcium, Dissolved	**44700**	ug/L	76.9	23.1	1	10/11/21 06:50	10/20/21 16:38	7440-70-2	
Lead, Dissolved	**<2.6**	ug/L	8.6	2.6	1	10/11/21 06:50	10/20/21 16:38	7439-92-1	
Magnesium, Dissolved	**53700**	ug/L	26.1	7.8	1	10/11/21 06:50	10/20/21 16:38	7439-95-4	
Total Hardness by 2340B, Dissolved	**333000**	ug/L	255	76.7	1	10/11/21 06:50	10/20/21 16:38		
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/18/21 19:03	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/18/21 19:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/18/21 19:03	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/18/21 19:03	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/18/21 19:03	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/18/21 19:03	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/18/21 19:03	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/18/21 19:03	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/18/21 19:03	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/18/21 19:03	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 19:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/18/21 19:03	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/18/21 19:03	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/18/21 19:03	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/18/21 19:03	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:03	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/18/21 19:03	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:03	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/18/21 19:03	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 19:03	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/18/21 19:03	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 19:03	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/18/21 19:03	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 19:03	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/18/21 19:03	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/18/21 19:03	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/18/21 19:03	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:03	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/18/21 19:03	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/18/21 19:03	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 19:03	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/18/21 19:03	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/18/21 19:03	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/18/21 19:03	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/18/21 19:03	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/18/21 19:03	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/18/21 19:03	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-3D **Lab ID: 10581978004** Collected: 10/05/21 10:32 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:03	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/18/21 19:03	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/18/21 19:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/18/21 19:03	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/18/21 19:03	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/18/21 19:03	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/18/21 19:03	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:03	100-42-5	
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/18/21 19:03	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 19:03	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:03	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/18/21 19:03	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/18/21 19:03	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/18/21 19:03	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/18/21 19:03	10061-01-5	
m&p-Xylene	**<0.18**	ug/L	0.59	0.18	1		10/18/21 19:03	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/18/21 19:03	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/18/21 19:03	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 19:03	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 19:03	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/18/21 19:03	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 19:03	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 19:03	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:03	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	70-130		1		10/18/21 19:03	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/18/21 19:03	460-00-4	
Toluene-d8 (S)	95	%.	75-125		1		10/18/21 19:03	2037-26-5	
2320B Alkalinity, Dissolved	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3, Dissolved	**366**	mg/L	6.1	1.8	1		10/18/21 14:21		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-9B **Lab ID: 10581978005** Collected: 10/05/21 10:50 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis								
Calcium, Dissolved	**44400**	ug/L	76.9	23.1	1	10/11/21 06:50	10/20/21 16:39	7440-70-2	
Lead, Dissolved	**<2.6**	ug/L	8.6	2.6	1	10/11/21 06:50	10/20/21 16:39	7439-92-1	
Magnesium, Dissolved	**64100**	ug/L	26.1	7.8	1	10/11/21 06:50	10/20/21 16:39	7439-95-4	
Total Hardness by 2340B, Dissolved	**375000**	ug/L	255	76.7	1	10/11/21 06:50	10/20/21 16:39		
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/18/21 19:21	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/18/21 19:21	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/18/21 19:21	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/18/21 19:21	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/18/21 19:21	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/18/21 19:21	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/18/21 19:21	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/18/21 19:21	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/18/21 19:21	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/18/21 19:21	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 19:21	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/18/21 19:21	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/18/21 19:21	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/18/21 19:21	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/18/21 19:21	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:21	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/18/21 19:21	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:21	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/18/21 19:21	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 19:21	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/18/21 19:21	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 19:21	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/18/21 19:21	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 19:21	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/18/21 19:21	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/18/21 19:21	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/18/21 19:21	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:21	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/18/21 19:21	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/18/21 19:21	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 19:21	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/18/21 19:21	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/18/21 19:21	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/18/21 19:21	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/18/21 19:21	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/18/21 19:21	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/18/21 19:21	75-71-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: MW-9B **Lab ID: 10581978005** Collected: 10/05/21 10:50 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/18/21 19:21	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/18/21 19:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/18/21 19:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/18/21 19:21	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/18/21 19:21	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/18/21 19:21	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/18/21 19:21	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:21	100-42-5	
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/18/21 19:21	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 19:21	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:21	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/18/21 19:21	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/18/21 19:21	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/18/21 19:21	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/18/21 19:21	10061-01-5	
m&p-Xylene	**<0.18**	ug/L	0.59	0.18	1		10/18/21 19:21	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/18/21 19:21	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/18/21 19:21	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 19:21	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 19:21	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/18/21 19:21	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 19:21	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 19:21	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 19:21	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	70-130		1		10/18/21 19:21	2199-69-1	
4-Bromofluorobenzene (S)	97	%.	75-125		1		10/18/21 19:21	460-00-4	
Toluene-d8 (S)	95	%.	75-125		1		10/18/21 19:21	2037-26-5	
2320B Alkalinity, Dissolved	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3, Dissolved	**445**	mg/L	6.1	1.8	1		10/18/21 14:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: Trip Blank **Lab ID: 10581978006** Collected: 10/05/21 00:00 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	0.61	0.18	1		10/18/21 15:02	630-20-6	
1,1,1-Trichloroethane	**<0.17**	ug/L	0.58	0.17	1		10/18/21 15:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.18**	ug/L	0.58	0.18	1		10/18/21 15:02	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	0.65	0.20	1		10/18/21 15:02	79-00-5	
1,1-Dichloroethane	**<0.14**	ug/L	0.47	0.14	1		10/18/21 15:02	75-34-3	
1,1-Dichloroethene	**<0.10**	ug/L	0.35	0.10	1		10/18/21 15:02	75-35-4	
1,1-Dichloropropene	**<0.12**	ug/L	0.41	0.12	1		10/18/21 15:02	563-58-6	
1,2,3-Trichlorobenzene	**<0.16**	ug/L	0.53	0.16	1		10/18/21 15:02	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	3.9	1.2	1		10/18/21 15:02	96-18-4	
1,2,4-Trichlorobenzene	**<0.061**	ug/L	0.20	0.061	1		10/18/21 15:02	120-82-1	
1,2,4-Trimethylbenzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 15:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<0.82**	ug/L	2.7	0.82	1		10/18/21 15:02	96-12-8	
1,2-Dibromoethane (EDB)	**<0.19**	ug/L	0.64	0.19	1		10/18/21 15:02	106-93-4	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.61	0.18	1		10/18/21 15:02	95-50-1	
1,2-Dichloroethane	**<0.14**	ug/L	0.48	0.14	1		10/18/21 15:02	107-06-2	
1,2-Dichloropropane	**<0.24**	ug/L	0.80	0.24	1		10/18/21 15:02	78-87-5	
1,3,5-Trimethylbenzene	**<0.096**	ug/L	0.32	0.096	1		10/18/21 15:02	108-67-8	
1,3-Dichlorobenzene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 15:02	541-73-1	
1,3-Dichloropropane	**<0.15**	ug/L	0.49	0.15	1		10/18/21 15:02	142-28-9	
1,4-Dichlorobenzene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 15:02	106-46-7	
2,2-Dichloropropane	**<0.27**	ug/L	0.90	0.27	1		10/18/21 15:02	594-20-7	
2-Chlorotoluene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 15:02	95-49-8	
4-Chlorotoluene	**<0.085**	ug/L	0.28	0.085	1		10/18/21 15:02	106-43-4	
Benzene	**<0.12**	ug/L	0.40	0.12	1		10/18/21 15:02	71-43-2	
Bromobenzene	**<0.18**	ug/L	0.60	0.18	1		10/18/21 15:02	108-86-1	
Bromochloromethane	**<0.40**	ug/L	1.3	0.40	1		10/18/21 15:02	74-97-5	
Bromodichloromethane	**<0.21**	ug/L	0.69	0.21	1		10/18/21 15:02	75-27-4	
Bromoform	**<0.24**	ug/L	0.80	0.24	1		10/18/21 15:02	75-25-2	
Bromomethane	**<1.9**	ug/L	6.3	1.9	1		10/18/21 15:02	74-83-9	
Carbon tetrachloride	**<0.14**	ug/L	0.47	0.14	1		10/18/21 15:02	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.36	0.11	1		10/18/21 15:02	108-90-7	
Chloroethane	**<0.41**	ug/L	1.4	0.41	1		10/18/21 15:02	75-00-3	
Chloroform	**<0.14**	ug/L	0.48	0.14	1		10/18/21 15:02	67-66-3	
Chloromethane	**<0.22**	ug/L	0.75	0.22	1		10/18/21 15:02	74-87-3	
Dibromochloromethane	**<0.17**	ug/L	0.56	0.17	1		10/18/21 15:02	124-48-1	
Dibromomethane	**<0.31**	ug/L	1.0	0.31	1		10/18/21 15:02	74-95-3	
Dichlorodifluoromethane	**<0.16**	ug/L	0.53	0.16	1		10/18/21 15:02	75-71-8	
Diethyl ether (Ethyl ether)	**<0.24**	ug/L	0.80	0.24	1		10/18/21 15:02	60-29-7	
Ethylbenzene	**<0.069**	ug/L	0.23	0.069	1		10/18/21 15:02	100-41-4	
Hexachloro-1,3-butadiene	**<0.43**	ug/L	1.4	0.43	1		10/18/21 15:02	87-68-3	
Isopropylbenzene (Cumene)	**<0.11**	ug/L	0.37	0.11	1		10/18/21 15:02	98-82-8	
Methyl-tert-butyl ether	**<0.18**	ug/L	0.60	0.18	1		10/18/21 15:02	1634-04-4	
Methylene Chloride	**<0.83**	ug/L	2.8	0.83	1		10/18/21 15:02	75-09-2	
Naphthalene	**<0.20**	ug/L	0.67	0.20	1		10/18/21 15:02	91-20-3	
Styrene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 15:02	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Sample: Trip Blank **Lab ID: 10581978006** Collected: 10/05/21 00:00 Received: 10/06/21 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Tetrachloroethene	**<0.10**	ug/L	0.34	0.10	1		10/18/21 15:02	127-18-4	
Toluene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 15:02	108-88-3	
Trichloroethene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 15:02	79-01-6	
Trichlorofluoromethane	**<0.10**	ug/L	0.34	0.10	1		10/18/21 15:02	75-69-4	
Vinyl chloride	**<0.063**	ug/L	0.21	0.063	1		10/18/21 15:02	75-01-4	
cis-1,2-Dichloroethene	**<0.17**	ug/L	0.57	0.17	1		10/18/21 15:02	156-59-2	
cis-1,3-Dichloropropene	**<0.16**	ug/L	0.52	0.16	1		10/18/21 15:02	10061-01-5	
m&p-Xylene	**<0.18**	ug/L	0.59	0.18	1		10/18/21 15:02	179601-23-1	
n-Butylbenzene	**<0.052**	ug/L	0.17	0.052	1		10/18/21 15:02	104-51-8	
n-Propylbenzene	**<0.090**	ug/L	0.30	0.090	1		10/18/21 15:02	103-65-1	
o-Xylene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 15:02	95-47-6	
p-Isopropyltoluene	**<0.12**	ug/L	0.38	0.12	1		10/18/21 15:02	99-87-6	
sec-Butylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/18/21 15:02	135-98-8	
tert-Butylbenzene	**<0.11**	ug/L	0.38	0.11	1		10/18/21 15:02	98-06-6	
trans-1,2-Dichloroethene	**<0.15**	ug/L	0.51	0.15	1		10/18/21 15:02	156-60-5	
trans-1,3-Dichloropropene	**<0.13**	ug/L	0.42	0.13	1		10/18/21 15:02	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	70-130		1		10/18/21 15:02	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		10/18/21 15:02	460-00-4	
Toluene-d8 (S)	95	%.	75-125		1		10/18/21 15:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

QC Batch: 775770
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581978001, 10581978002, 10581978003, 10581978004, 10581978005

METHOD BLANK: 4132333 Matrix: Water
Associated Lab Samples: 10581978001, 10581978002, 10581978003, 10581978004, 10581978005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	<23.1	76.9	10/20/21 16:26	
Lead, Dissolved	ug/L	<2.6	8.6	10/20/21 16:26	
Magnesium, Dissolved	ug/L	<7.8	26.1	10/20/21 16:26	

LABORATORY CONTROL SAMPLE: 4132334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	20000	19800	99	85-115	
Lead, Dissolved	ug/L	1000	1000	100	85-115	
Magnesium, Dissolved	ug/L	20000	19800	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4132335 4132336

Parameter	Units	10581978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	83100	20000	20000	107000	103000	122	101	70-130	4	20	
Lead, Dissolved	ug/L	<2.6	1000	1000	1010	1000	101	100	70-130	0	20	
Magnesium, Dissolved	ug/L	59300	20000	20000	83300	80300	120	105	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

QC Batch: 777217
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581978001, 10581978002

METHOD BLANK: 4139994 Matrix: Water
Associated Lab Samples: 10581978001, 10581978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	0.61	10/15/21 10:57	
1,1,1-Trichloroethane	ug/L	<0.17	0.58	10/15/21 10:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.18	0.58	10/15/21 10:57	
1,1,2-Trichloroethane	ug/L	<0.20	0.65	10/15/21 10:57	
1,1-Dichloroethane	ug/L	<0.14	0.47	10/15/21 10:57	
1,1-Dichloroethene	ug/L	<0.10	0.35	10/15/21 10:57	
1,1-Dichloropropene	ug/L	<0.12	0.41	10/15/21 10:57	
1,2,3-Trichlorobenzene	ug/L	<0.16	0.53	10/15/21 10:57	
1,2,3-Trichloropropane	ug/L	<1.2	3.9	10/15/21 10:57	
1,2,4-Trichlorobenzene	ug/L	<0.061	0.20	10/15/21 10:57	
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/15/21 10:57	
1,2-Dibromo-3-chloropropane	ug/L	<0.82	2.7	10/15/21 10:57	
1,2-Dibromoethane (EDB)	ug/L	<0.19	0.64	10/15/21 10:57	
1,2-Dichlorobenzene	ug/L	<0.18	0.61	10/15/21 10:57	
1,2-Dichloroethane	ug/L	<0.14	0.48	10/15/21 10:57	
1,2-Dichloropropane	ug/L	<0.24	0.80	10/15/21 10:57	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/15/21 10:57	
1,3-Dichlorobenzene	ug/L	<0.13	0.42	10/15/21 10:57	
1,3-Dichloropropane	ug/L	<0.15	0.49	10/15/21 10:57	
1,4-Dichlorobenzene	ug/L	<0.15	0.51	10/15/21 10:57	
2,2-Dichloropropane	ug/L	<0.27	0.90	10/15/21 10:57	
2-Chlorotoluene	ug/L	<0.11	0.36	10/15/21 10:57	
4-Chlorotoluene	ug/L	<0.085	0.28	10/15/21 10:57	
Benzene	ug/L	<0.12	0.40	10/15/21 10:57	
Bromobenzene	ug/L	<0.18	0.60	10/15/21 10:57	
Bromochloromethane	ug/L	<0.40	1.3	10/15/21 10:57	
Bromodichloromethane	ug/L	<0.21	0.69	10/15/21 10:57	
Bromoform	ug/L	<0.24	0.80	10/15/21 10:57	
Bromomethane	ug/L	<1.9	6.3	10/15/21 10:57	
Carbon tetrachloride	ug/L	<0.14	0.47	10/15/21 10:57	
Chlorobenzene	ug/L	<0.11	0.36	10/15/21 10:57	
Chloroethane	ug/L	<0.41	1.4	10/15/21 10:57	
Chloroform	ug/L	<0.14	0.48	10/15/21 10:57	
Chloromethane	ug/L	<0.22	0.75	10/15/21 10:57	
cis-1,2-Dichloroethene	ug/L	<0.17	0.57	10/15/21 10:57	
cis-1,3-Dichloropropene	ug/L	<0.16	0.52	10/15/21 10:57	
Dibromochloromethane	ug/L	<0.17	0.56	10/15/21 10:57	
Dibromomethane	ug/L	<0.31	1.0	10/15/21 10:57	
Dichlorodifluoromethane	ug/L	<0.16	0.53	10/15/21 10:57	
Diethyl ether (Ethyl ether)	ug/L	<0.24	0.80	10/15/21 10:57	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

METHOD BLANK: 4139994 Matrix: Water
Associated Lab Samples: 10581978001, 10581978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.069	0.23	10/15/21 10:57	
Hexachloro-1,3-butadiene	ug/L	<0.43	1.4	10/15/21 10:57	
Isopropylbenzene (Cumene)	ug/L	<0.11	0.37	10/15/21 10:57	
m&p-Xylene	ug/L	<0.18	0.59	10/15/21 10:57	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/15/21 10:57	
Methylene Chloride	ug/L	<0.83	2.8	10/15/21 10:57	
n-Butylbenzene	ug/L	<0.052	0.17	10/15/21 10:57	
n-Propylbenzene	ug/L	<0.090	0.30	10/15/21 10:57	
Naphthalene	ug/L	<0.20	0.67	10/15/21 10:57	
o-Xylene	ug/L	<0.12	0.38	10/15/21 10:57	
p-Isopropyltoluene	ug/L	<0.12	0.38	10/15/21 10:57	
sec-Butylbenzene	ug/L	<0.14	0.45	10/15/21 10:57	
Styrene	ug/L	<0.13	0.42	10/15/21 10:57	
tert-Butylbenzene	ug/L	<0.11	0.38	10/15/21 10:57	
Tetrachloroethene	ug/L	<0.10	0.34	10/15/21 10:57	
Toluene	ug/L	<0.11	0.38	10/15/21 10:57	
trans-1,2-Dichloroethene	ug/L	<0.15	0.51	10/15/21 10:57	
trans-1,3-Dichloropropene	ug/L	<0.13	0.42	10/15/21 10:57	
Trichloroethene	ug/L	<0.13	0.42	10/15/21 10:57	
Trichlorofluoromethane	ug/L	<0.10	0.34	10/15/21 10:57	
Vinyl chloride	ug/L	<0.063	0.21	10/15/21 10:57	
1,2-Dichlorobenzene-d4 (S)	%.	101	70-130	10/15/21 10:57	
4-Bromofluorobenzene (S)	%.	99	75-125	10/15/21 10:57	
Toluene-d8 (S)	%.	98	75-125	10/15/21 10:57	

LABORATORY CONTROL SAMPLE & LCSD: 4139995 4139996

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	19.6	95	98	67-134	3	20	
1,1,1-Trichloroethane	ug/L	20	18.6	18.6	93	93	72-129	0	20	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	17.6	88	88	74-125	0	20	
1,1,2-Trichloroethane	ug/L	20	19.3	19.4	97	97	75-125	0	20	
1,1-Dichloroethane	ug/L	20	17.6	17.9	88	89	72-128	1	20	
1,1-Dichloroethene	ug/L	20	19.8	19.6	99	98	67-130	1	20	
1,1-Dichloropropene	ug/L	20	19.4	19.4	97	97	65-131	0	20	
1,2,3-Trichlorobenzene	ug/L	20	19.5	19.9	97	99	69-130	2	20	
1,2,3-Trichloropropane	ug/L	20	17.8	17.9	89	89	75-125	0	20	
1,2,4-Trichlorobenzene	ug/L	20	18.4	19.2	92	96	64-132	4	20	
1,2,4-Trimethylbenzene	ug/L	20	18.3	18.6	92	93	75-126	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	44.4	92	89	59-135	4	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	19.6	100	98	75-125	2	20	
1,2-Dichlorobenzene	ug/L	20	17.9	18.2	89	91	74-127	2	20	
1,2-Dichloroethane	ug/L	20	18.2	18.3	91	91	74-125	1	20	
1,2-Dichloropropane	ug/L	20	18.9	19.3	94	97	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

LABORATORY CONTROL SAMPLE & LCSD: 4139995 4139996

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,3,5-Trimethylbenzene	ug/L	20	18.6	18.5	93	93	75-125	0	20	
1,3-Dichlorobenzene	ug/L	20	18.5	19.1	93	95	74-127	3	20	
1,3-Dichloropropane	ug/L	20	19.5	19.5	98	97	75-125	0	20	
1,4-Dichlorobenzene	ug/L	20	18.0	18.5	90	93	73-125	3	20	
2,2-Dichloropropane	ug/L	20	19.8	19.4	99	97	68-129	2	20	
2-Chlorotoluene	ug/L	20	18.0	17.8	90	89	75-125	1	20	
4-Chlorotoluene	ug/L	20	17.9	18.3	90	92	74-125	2	20	
Benzene	ug/L	20	18.8	19.0	94	95	73-125	1	20	
Bromobenzene	ug/L	20	18.3	18.4	92	92	72-125	0	20	
Bromochloromethane	ug/L	20	18.8	19.3	94	96	75-127	2	20	
Bromodichloromethane	ug/L	20	18.4	19.0	92	95	75-125	3	20	
Bromoform	ug/L	20	19.3	19.3	96	97	64-134	0	20	
Bromomethane	ug/L	20	10.0	11.6	50	58	30-150	15	20	
Carbon tetrachloride	ug/L	20	18.1	18.5	91	93	63-135	2	20	
Chlorobenzene	ug/L	20	18.4	18.9	92	95	75-125	3	20	
Chloroethane	ug/L	20	15.9	15.9	79	80	61-142	0	20	
Chloroform	ug/L	20	17.3	17.6	86	88	75-125	2	20	
Chloromethane	ug/L	20	14.5	14.9	72	75	64-129	3	20	
cis-1,2-Dichloroethene	ug/L	20	19.5	20.2	98	101	74-125	3	20	
cis-1,3-Dichloropropene	ug/L	20	19.9	20.0	99	100	75-126	1	20	
Dibromochloromethane	ug/L	20	20.1	20.5	100	103	71-131	2	20	
Dibromomethane	ug/L	20	19.6	19.4	98	97	75-126	1	20	
Dichlorodifluoromethane	ug/L	20	18.4	18.4	92	92	60-135	0	20	
Diethyl ether (Ethyl ether)	ug/L	20	18.2	18.1	91	90	70-128	1	20	
Ethylbenzene	ug/L	20	17.1	17.3	85	87	75-125	1	20	
Hexachloro-1,3-butadiene	ug/L	20	19.4	19.4	97	97	63-134	0	20	
Isopropylbenzene (Cumene)	ug/L	20	19.5	19.4	97	97	75-125	0	20	
m&p-Xylene	ug/L	40	37.9	37.2	95	93	75-125	2	20	
Methyl-tert-butyl ether	ug/L	20	19.5	19.5	97	97	75-125	0	20	
Methylene Chloride	ug/L	20	18.8	18.9	94	95	69-125	0	20	
n-Butylbenzene	ug/L	20	19.0	18.9	95	94	72-128	1	20	
n-Propylbenzene	ug/L	20	17.9	17.8	90	89	75-125	1	20	
Naphthalene	ug/L	20	19.2	19.8	96	99	69-127	3	20	
o-Xylene	ug/L	20	19.8	19.8	99	99	75-125	0	20	
p-Isopropyltoluene	ug/L	20	19.4	19.7	97	98	75-125	1	20	
sec-Butylbenzene	ug/L	20	18.8	18.7	94	94	75-127	1	20	
Styrene	ug/L	20	20.3	20.2	101	101	75-127	1	20	
tert-Butylbenzene	ug/L	20	18.7	18.7	94	94	75-125	0	20	
Tetrachloroethene	ug/L	20	21.4	21.5	107	108	69-131	0	20	
Toluene	ug/L	20	18.7	19.2	94	96	75-125	2	20	
trans-1,2-Dichloroethene	ug/L	20	19.4	20.1	97	101	69-130	3	20	
trans-1,3-Dichloropropene	ug/L	20	19.5	19.8	98	99	74-128	1	20	
Trichloroethene	ug/L	20	19.6	19.6	98	98	75-130	0	20	
Trichlorofluoromethane	ug/L	20	19.9	19.9	99	99	71-133	0	20	
Vinyl chloride	ug/L	20	17.8	17.6	89	88	67-129	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	100	70-130			
4-Bromofluorobenzene (S)	%.				98	99	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

LABORATORY CONTROL SAMPLE & LCSD: 4139995 4139996

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%.				98	98	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147856 4147857

Parameter	Units	10584607001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<9.2	1000	1000	971	1010	97	101	57-134	4	30	
1,1,1-Trichloroethane	ug/L	<8.7	1000	1000	911	981	91	98	62-136	7	30	
1,1,2,2-Tetrachloroethane	ug/L	<8.8	1000	1000	922	956	92	96	63-127	4	30	
1,1,2-Trichloroethane	ug/L	<9.8	1000	1000	999	1040	100	104	65-128	4	30	
1,1-Dichloroethane	ug/L	<7.0	1000	1000	877	932	88	93	63-128	6	30	
1,1-Dichloroethene	ug/L	<5.2	1000	1000	988	1050	99	105	59-135	6	30	
1,1-Dichloropropene	ug/L	<6.1	1000	1000	954	1030	95	103	64-135	8	30	
1,2,3-Trichlorobenzene	ug/L	<7.9	1000	1000	952	1060	95	106	59-133	11	30	
1,2,3-Trichloropropane	ug/L	<58.5	1000	1000	925	1020	93	102	62-125	9	30	
1,2,4-Trichlorobenzene	ug/L	<3.1	1000	1000	891	980	89	98	54-137	10	30	
1,2,4-Trimethylbenzene	ug/L	7.5J	1000	1000	909	953	90	95	68-126	5	30	
1,2-Dibromo-3-chloropropane	ug/L	<40.8	2500	2500	2300	2460	92	98	55-135	7	30	
1,2-Dibromoethane (EDB)	ug/L	<9.6	1000	1000	1030	1060	103	106	64-125	3	30	
1,2-Dichlorobenzene	ug/L	<9.2	1000	1000	882	921	88	92	65-130	4	30	
1,2-Dichloroethane	ug/L	<7.2	1000	1000	940	984	94	98	58-125	5	30	
1,2-Dichloropropane	ug/L	<12.0	1000	1000	950	1000	95	100	65-125	5	30	
1,3,5-Trimethylbenzene	ug/L	<4.8	1000	1000	891	943	89	94	67-125	6	30	
1,3-Dichlorobenzene	ug/L	<6.4	1000	1000	907	960	91	96	68-131	6	30	
1,3-Dichloropropane	ug/L	<7.4	1000	1000	1000	1070	100	107	65-125	6	30	
1,4-Dichlorobenzene	ug/L	<7.6	1000	1000	885	925	88	92	64-127	4	30	
2,2-Dichloropropane	ug/L	<13.5	1000	1000	903	951	90	95	65-131	5	30	
2-Chlorotoluene	ug/L	<5.4	1000	1000	865	912	87	91	69-125	5	30	
4-Chlorotoluene	ug/L	<4.3	1000	1000	875	919	87	92	61-129	5	30	
Benzene	ug/L	12.4J	1000	1000	929	991	92	98	60-125	6	30	
Bromobenzene	ug/L	<9.0	1000	1000	906	954	91	95	61-125	5	30	
Bromochloromethane	ug/L	<19.9	1000	1000	938	992	94	99	62-127	6	30	
Bromodichloromethane	ug/L	<10.4	1000	1000	916	960	92	96	63-127	5	30	
Bromoform	ug/L	<12.0	1000	1000	1000	1050	100	105	62-134	5	30	
Bromomethane	ug/L	<94.0	1000	1000	369	505	37	50	30-150	31	30	R1
Carbon tetrachloride	ug/L	<7.0	1000	1000	932	976	93	98	63-142	5	30	
Chlorobenzene	ug/L	<5.4	1000	1000	919	969	92	97	65-128	5	30	
Chloroethane	ug/L	<20.4	1000	1000	702	741	70	74	61-142	5	30	
Chloroform	ug/L	<7.2	1000	1000	860	907	86	90	63-125	5	30	
Chloromethane	ug/L	<11.2	1000	1000	680	724	68	72	56-132	6	30	
cis-1,2-Dichloroethene	ug/L	<8.6	1000	1000	947	1000	95	100	63-125	6	30	
cis-1,3-Dichloropropene	ug/L	<7.8	1000	1000	962	1020	96	102	61-126	6	30	
Dibromochloromethane	ug/L	<8.4	1000	1000	1040	1090	104	109	70-131	5	30	
Dibromomethane	ug/L	<15.3	1000	1000	988	1050	99	105	66-126	6	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147856 4147857

Parameter	Units	10584607001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dichlorodifluoromethane	ug/L	<8.0	1000	1000	861	932	86	93	59-137	8	30	
Diethyl ether (Ethyl ether)	ug/L	<12.0	1000	1000	930	991	93	99	59-128	6	30	
Ethylbenzene	ug/L	<3.4	1000	1000	857	897	86	90	61-125	5	30	
Hexachloro-1,3-butadiene	ug/L	<21.5	1000	1000	875	916	88	92	53-143	5	30	
Isopropylbenzene (Cumene)	ug/L	<5.6	1000	1000	965	1020	97	102	75-128	5	30	
m&p-Xylene	ug/L	<8.9	2000	2000	1860	1980	92	99	62-125	6	30	
Methyl-tert-butyl ether	ug/L	<9.0	1000	1000	1010	1060	101	106	61-125	5	30	
Methylene Chloride	ug/L	<41.4	1000	1000	912	959	91	96	58-125	5	30	
n-Butylbenzene	ug/L	<2.6	1000	1000	891	945	89	95	67-133	6	30	
n-Propylbenzene	ug/L	<4.5	1000	1000	858	908	86	91	67-129	6	30	
Naphthalene	ug/L	<10.0	1000	1000	1000	1100	100	110	54-127	9	30	
o-Xylene	ug/L	<5.8	1000	1000	968	1040	97	104	60-127	7	30	
p-Isopropyltoluene	ug/L	<5.8	1000	1000	936	990	94	99	69-130	6	30	
sec-Butylbenzene	ug/L	<6.8	1000	1000	904	955	90	95	69-132	5	30	
Styrene	ug/L	<6.3	1000	1000	989	1050	99	105	66-132	6	30	
tert-Butylbenzene	ug/L	<5.6	1000	1000	908	976	91	98	68-129	7	30	
Tetrachloroethene	ug/L	<5.0	1000	1000	1040	1120	104	112	66-138	7	30	
Toluene	ug/L	<5.6	1000	1000	915	960	91	96	61-125	5	30	
trans-1,2-Dichloroethene	ug/L	<7.6	1000	1000	954	1010	95	101	60-135	6	30	
trans-1,3-Dichloropropene	ug/L	<6.3	1000	1000	998	1040	100	104	64-128	5	30	
Trichloroethene	ug/L	<6.3	1000	1000	950	1020	95	102	65-137	7	30	
Trichlorofluoromethane	ug/L	<5.1	1000	1000	932	1000	93	100	69-140	7	30	
Vinyl chloride	ug/L	<3.2	1000	1000	791	846	79	85	63-132	7	30	
1,2-Dichlorobenzene-d4 (S)	%.						99	100	70-130			
4-Bromofluorobenzene (S)	%.						100	101	75-125			
Toluene-d8 (S)	%.						97	98	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

QC Batch: 777555
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581978003, 10581978004, 10581978005, 10581978006

METHOD BLANK: 4141984 Matrix: Water
Associated Lab Samples: 10581978003, 10581978004, 10581978005, 10581978006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	0.61	10/18/21 14:07	
1,1,1-Trichloroethane	ug/L	<0.17	0.58	10/18/21 14:07	
1,1,2,2-Tetrachloroethane	ug/L	<0.18	0.58	10/18/21 14:07	
1,1,2-Trichloroethane	ug/L	<0.20	0.65	10/18/21 14:07	
1,1-Dichloroethane	ug/L	<0.14	0.47	10/18/21 14:07	
1,1-Dichloroethene	ug/L	<0.10	0.35	10/18/21 14:07	
1,1-Dichloropropene	ug/L	<0.12	0.41	10/18/21 14:07	
1,2,3-Trichlorobenzene	ug/L	<0.16	0.53	10/18/21 14:07	
1,2,3-Trichloropropane	ug/L	<1.2	3.9	10/18/21 14:07	
1,2,4-Trichlorobenzene	ug/L	<0.061	0.20	10/18/21 14:07	
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/18/21 14:07	
1,2-Dibromo-3-chloropropane	ug/L	<0.82	2.7	10/18/21 14:07	
1,2-Dibromoethane (EDB)	ug/L	<0.19	0.64	10/18/21 14:07	
1,2-Dichlorobenzene	ug/L	<0.18	0.61	10/18/21 14:07	
1,2-Dichloroethane	ug/L	<0.14	0.48	10/18/21 14:07	
1,2-Dichloropropane	ug/L	<0.24	0.80	10/18/21 14:07	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/18/21 14:07	
1,3-Dichlorobenzene	ug/L	<0.13	0.42	10/18/21 14:07	
1,3-Dichloropropane	ug/L	<0.15	0.49	10/18/21 14:07	
1,4-Dichlorobenzene	ug/L	<0.15	0.51	10/18/21 14:07	
2,2-Dichloropropane	ug/L	<0.27	0.90	10/18/21 14:07	
2-Chlorotoluene	ug/L	<0.11	0.36	10/18/21 14:07	
4-Chlorotoluene	ug/L	<0.085	0.28	10/18/21 14:07	
Benzene	ug/L	<0.12	0.40	10/18/21 14:07	
Bromobenzene	ug/L	<0.18	0.60	10/18/21 14:07	
Bromochloromethane	ug/L	<0.40	1.3	10/18/21 14:07	
Bromodichloromethane	ug/L	<0.21	0.69	10/18/21 14:07	
Bromoform	ug/L	<0.24	0.80	10/18/21 14:07	
Bromomethane	ug/L	<1.9	6.3	10/18/21 14:07	
Carbon tetrachloride	ug/L	<0.14	0.47	10/18/21 14:07	
Chlorobenzene	ug/L	<0.11	0.36	10/18/21 14:07	
Chloroethane	ug/L	<0.41	1.4	10/18/21 14:07	
Chloroform	ug/L	<0.14	0.48	10/18/21 14:07	
Chloromethane	ug/L	<0.22	0.75	10/18/21 14:07	
cis-1,2-Dichloroethene	ug/L	<0.17	0.57	10/18/21 14:07	
cis-1,3-Dichloropropene	ug/L	<0.16	0.52	10/18/21 14:07	
Dibromochloromethane	ug/L	<0.17	0.56	10/18/21 14:07	
Dibromomethane	ug/L	<0.31	1.0	10/18/21 14:07	
Dichlorodifluoromethane	ug/L	<0.16	0.53	10/18/21 14:07	
Diethyl ether (Ethyl ether)	ug/L	<0.24	0.80	10/18/21 14:07	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

METHOD BLANK: 4141984 Matrix: Water
Associated Lab Samples: 10581978003, 10581978004, 10581978005, 10581978006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.069	0.23	10/18/21 14:07	
Hexachloro-1,3-butadiene	ug/L	<0.43	1.4	10/18/21 14:07	
Isopropylbenzene (Cumene)	ug/L	<0.11	0.37	10/18/21 14:07	
m&p-Xylene	ug/L	<0.18	0.59	10/18/21 14:07	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/18/21 14:07	
Methylene Chloride	ug/L	<0.83	2.8	10/18/21 14:07	
n-Butylbenzene	ug/L	<0.052	0.17	10/18/21 14:07	
n-Propylbenzene	ug/L	<0.090	0.30	10/18/21 14:07	
Naphthalene	ug/L	<0.20	0.67	10/18/21 14:07	
o-Xylene	ug/L	<0.12	0.38	10/18/21 14:07	
p-Isopropyltoluene	ug/L	<0.12	0.38	10/18/21 14:07	
sec-Butylbenzene	ug/L	<0.14	0.45	10/18/21 14:07	
Styrene	ug/L	<0.13	0.42	10/18/21 14:07	
tert-Butylbenzene	ug/L	<0.11	0.38	10/18/21 14:07	
Tetrachloroethene	ug/L	<0.10	0.34	10/18/21 14:07	
Toluene	ug/L	<0.11	0.38	10/18/21 14:07	
trans-1,2-Dichloroethene	ug/L	<0.15	0.51	10/18/21 14:07	
trans-1,3-Dichloropropene	ug/L	<0.13	0.42	10/18/21 14:07	
Trichloroethene	ug/L	<0.13	0.42	10/18/21 14:07	
Trichlorofluoromethane	ug/L	<0.10	0.34	10/18/21 14:07	
Vinyl chloride	ug/L	<0.063	0.21	10/18/21 14:07	
1,2-Dichlorobenzene-d4 (S)	%.	101	70-130	10/18/21 14:07	
4-Bromofluorobenzene (S)	%.	100	75-125	10/18/21 14:07	
Toluene-d8 (S)	%.	95	75-125	10/18/21 14:07	

LABORATORY CONTROL SAMPLE & LCSD: 4141985 4141986

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.4	20.1	97	100	67-134	3	20	
1,1,1-Trichloroethane	ug/L	20	18.8	19.2	94	96	72-129	2	20	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	17.8	95	89	74-125	7	20	
1,1,2-Trichloroethane	ug/L	20	19.9	19.3	100	97	75-125	3	20	
1,1-Dichloroethane	ug/L	20	18.0	18.3	90	92	72-128	2	20	
1,1-Dichloroethene	ug/L	20	19.4	20.6	97	103	67-130	6	20	
1,1-Dichloropropene	ug/L	20	20.1	20.2	100	101	65-131	1	20	
1,2,3-Trichlorobenzene	ug/L	20	19.0	19.4	95	97	69-130	2	20	
1,2,3-Trichloropropane	ug/L	20	19.8	18.0	99	90	75-125	10	20	
1,2,4-Trichlorobenzene	ug/L	20	18.7	19.3	93	96	64-132	3	20	
1,2,4-Trimethylbenzene	ug/L	20	18.3	18.5	92	93	75-126	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	46.2	98	92	59-135	6	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	20.5	104	103	75-125	2	20	
1,2-Dichlorobenzene	ug/L	20	17.9	18.1	90	91	74-127	1	20	
1,2-Dichloroethane	ug/L	20	19.0	19.2	95	96	74-125	1	20	
1,2-Dichloropropane	ug/L	20	18.9	19.2	95	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

LABORATORY CONTROL SAMPLE & LCSD: 4141985 4141986

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,3,5-Trimethylbenzene	ug/L	20	18.5	18.2	92	91	75-125	2	20	
1,3-Dichlorobenzene	ug/L	20	18.5	18.7	93	94	74-127	1	20	
1,3-Dichloropropane	ug/L	20	20.6	20.4	103	102	75-125	1	20	
1,4-Dichlorobenzene	ug/L	20	18.0	18.3	90	92	73-125	2	20	
2,2-Dichloropropane	ug/L	20	19.7	19.5	99	98	68-129	1	20	
2-Chlorotoluene	ug/L	20	18.2	18.2	91	91	75-125	0	20	
4-Chlorotoluene	ug/L	20	18.2	18.1	91	91	74-125	0	20	
Benzene	ug/L	20	18.8	19.0	94	95	73-125	1	20	
Bromobenzene	ug/L	20	18.8	18.8	94	94	72-125	0	20	
Bromochloromethane	ug/L	20	18.3	19.0	91	95	75-127	4	20	
Bromodichloromethane	ug/L	20	18.5	18.9	92	95	75-125	2	20	
Bromoform	ug/L	20	20.8	20.0	104	100	64-134	4	20	
Bromomethane	ug/L	20	12.2	14.1	61	71	30-150	15	20	
Carbon tetrachloride	ug/L	20	18.8	18.9	94	95	63-135	1	20	
Chlorobenzene	ug/L	20	18.3	18.7	91	94	75-125	2	20	
Chloroethane	ug/L	20	15.4	15.8	77	79	61-142	3	20	
Chloroform	ug/L	20	17.1	17.5	85	87	75-125	2	20	
Chloromethane	ug/L	20	15.1	15.3	75	77	64-129	2	20	
cis-1,2-Dichloroethene	ug/L	20	19.4	19.7	97	98	74-125	2	20	
cis-1,3-Dichloropropene	ug/L	20	19.7	19.9	98	100	75-126	1	20	
Dibromochloromethane	ug/L	20	20.8	20.4	104	102	71-131	2	20	
Dibromomethane	ug/L	20	19.8	19.5	99	98	75-126	2	20	
Dichlorodifluoromethane	ug/L	20	17.8	17.1	89	86	60-135	4	20	
Diethyl ether (Ethyl ether)	ug/L	20	18.6	18.6	93	93	70-128	0	20	
Ethylbenzene	ug/L	20	17.5	17.5	88	88	75-125	0	20	
Hexachloro-1,3-butadiene	ug/L	20	18.2	19.3	91	96	63-134	6	20	
Isopropylbenzene (Cumene)	ug/L	20	19.4	19.7	97	98	75-125	2	20	
m&p-Xylene	ug/L	40	38.4	38.4	96	96	75-125	0	20	
Methyl-tert-butyl ether	ug/L	20	20.4	19.9	102	100	75-125	3	20	
Methylene Chloride	ug/L	20	18.9	19.5	94	97	69-125	3	20	
n-Butylbenzene	ug/L	20	18.6	19.2	93	96	72-128	3	20	
n-Propylbenzene	ug/L	20	18.1	18.2	90	91	75-125	1	20	
Naphthalene	ug/L	20	20.1	20.1	100	101	69-127	0	20	
o-Xylene	ug/L	20	19.6	19.7	98	98	75-125	0	20	
p-Isopropyltoluene	ug/L	20	19.5	20.0	98	100	75-125	2	20	
sec-Butylbenzene	ug/L	20	18.7	19.1	93	96	75-127	3	20	
Styrene	ug/L	20	20.3	20.0	102	100	75-127	2	20	
tert-Butylbenzene	ug/L	20	18.7	19.0	93	95	75-125	2	20	
Tetrachloroethene	ug/L	20	21.3	21.2	107	106	69-131	1	20	
Toluene	ug/L	20	18.6	18.8	93	94	75-125	1	20	
trans-1,2-Dichloroethene	ug/L	20	19.5	19.7	97	99	69-130	1	20	
trans-1,3-Dichloropropene	ug/L	20	20.7	20.5	104	102	74-128	1	20	
Trichloroethene	ug/L	20	19.5	19.7	97	98	75-130	1	20	
Trichlorofluoromethane	ug/L	20	19.6	19.1	98	96	71-133	2	20	
Vinyl chloride	ug/L	20	17.0	16.9	85	84	67-129	0	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	70-130			
4-Bromofluorobenzene (S)	%.				100	100	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

LABORATORY CONTROL SAMPLE & LCSD: 4141985 4141986

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%.				97	97	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141987 4141988

Parameter	Units	10581524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.18	20	20	9.5	21.7	48	109	57-134	78	30	M1,R1
1,1,1-Trichloroethane	ug/L	<0.17	20	20	9.6	21.1	48	106	62-136	75	30	M1,R1
1,1,2,2-Tetrachloroethane	ug/L	<0.18	20	20	8.3	20.2	42	101	63-127	84	30	M1,R1
1,1,2-Trichloroethane	ug/L	<0.20	20	20	9.5	21.4	47	107	65-128	77	30	M1,R1
1,1-Dichloroethane	ug/L	<0.14	20	20	9.1	19.4	45	97	63-128	72	30	M1,R1
1,1-Dichloroethene	ug/L	1.1	20	20	12.2	24.1	55	115	59-135	65	30	M1,R1
1,1-Dichloropropene	ug/L	<0.12	20	20	10.3	21.9	52	109	64-135	72	30	M1,R1
1,2,3-Trichlorobenzene	ug/L	<0.16	20	20	9.1	20.1	46	100	59-133	75	30	M1,R1
1,2,3-Trichloropropane	ug/L	<1.2	20	20	9.0	20.9	45	104	62-125	80	30	M1,R1
1,2,4-Trichlorobenzene	ug/L	<0.061	20	20	8.9	19.6	45	98	54-137	75	30	M1,R1
1,2,4-Trimethylbenzene	ug/L	<0.12	20	20	8.8	19.3	44	96	68-126	74	30	M1,R1
1,2-Dibromo-3-chloropropane	ug/L	<0.82	50	50	22.4	52.3	45	105	55-135	80	30	M1,R1
1,2-Dibromoethane (EDB)	ug/L	<0.19	20	20	9.8	22.0	49	110	64-125	77	30	M1,R1
1,2-Dichlorobenzene	ug/L	<0.18	20	20	8.6	18.5	43	92	65-130	73	30	M1,R1
1,2-Dichloroethane	ug/L	<0.14	20	20	8.9	19.1	45	96	58-125	73	30	M1,R1
1,2-Dichloropropane	ug/L	<0.24	20	20	8.9	20.3	45	102	65-125	78	30	M1,R1
1,3,5-Trimethylbenzene	ug/L	<0.096	20	20	9.0	19.3	45	97	67-125	73	30	M1,R1
1,3-Dichlorobenzene	ug/L	<0.13	20	20	8.9	18.8	45	94	68-131	71	30	M1,R1
1,3-Dichloropropane	ug/L	<0.15	20	20	9.8	22.0	49	110	65-125	77	30	M1,R1
1,4-Dichlorobenzene	ug/L	<0.15	20	20	8.6	18.2	43	91	64-127	71	30	M1,R1
2,2-Dichloropropane	ug/L	<0.27	20	20	9.1	19.9	46	99	65-131	74	30	M1,R1
2-Chlorotoluene	ug/L	<0.11	20	20	8.8	19.0	44	95	69-125	73	30	M1,R1
4-Chlorotoluene	ug/L	<0.085	20	20	8.8	18.7	44	94	61-129	72	30	M1,R1
Benzene	ug/L	9.2	20	20	18.7	29.5	47	102	60-125	45	30	M1,R1
Bromobenzene	ug/L	<0.18	20	20	9.1	19.8	46	99	61-125	74	30	M1,R1
Bromochloromethane	ug/L	<0.40	20	20	8.9	19.7	44	99	62-127	76	30	M1,R1
Bromodichloromethane	ug/L	<0.21	20	20	8.6	19.6	43	98	63-127	78	30	M1,R1
Bromoform	ug/L	<0.24	20	20	9.2	21.6	46	108	62-134	80	30	M1,R1
Bromomethane	ug/L	<1.9	20	20	3.7J	13.7	18	69	30-150		30	M1,R1
Carbon tetrachloride	ug/L	<0.14	20	20	9.7	20.6	48	103	63-142	72	30	M1,R1
Chlorobenzene	ug/L	<0.11	20	20	9.2	19.7	46	99	65-128	73	30	M1,R1
Chloroethane	ug/L	<0.41	20	20	6.9	20.0	34	100	61-142	98	30	M1,R1
Chloroform	ug/L	<0.14	20	20	8.5	18.6	43	93	63-125	74	30	M1,R1
Chloromethane	ug/L	<0.22	20	20	6.5	17.5	33	87	56-132	91	30	M1,R1
cis-1,2-Dichloroethene	ug/L	269	20	20	267	243	-13	-133	63-125	9	30	E,P6
cis-1,3-Dichloropropene	ug/L	<0.16	20	20	9.0	20.2	45	101	61-126	77	30	M1,R1
Dibromochloromethane	ug/L	<0.17	20	20	9.4	21.6	47	108	70-131	79	30	M1,R1
Dibromomethane	ug/L	<0.31	20	20	9.1	20.8	46	104	66-126	78	30	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141987 4141988

Parameter	Units	10581524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dichlorodifluoromethane	ug/L	<0.16	20	20	7.6	18.6	38	93	59-137	84	30	M1,R1
Diethyl ether (Ethyl ether)	ug/L	<0.24	20	20	8.3	19.6	42	98	59-128	81	30	M1,R1
Ethylbenzene	ug/L	<0.069	20	20	9.0	19.1	45	95	61-125	72	30	M1,R1
Hexachloro-1,3-butadiene	ug/L	<0.43	20	20	9.8	20.6	49	103	53-143	71	30	M1,R1
Isopropylbenzene (Cumene)	ug/L	<0.11	20	20	10.1	21.6	50	108	75-128	72	30	M1,R1
m&p-Xylene	ug/L	0.30J	40	40	19.8	42.2	49	105	62-125	72	30	M1,R1
Methyl-tert-butyl ether	ug/L	<0.18	20	20	9.0	21.3	45	106	61-125	81	30	M1,R1
Methylene Chloride	ug/L	<0.83	20	20	9.0	19.5	45	97	58-125	74	30	M1,R1
n-Butylbenzene	ug/L	<0.052	20	20	9.4	19.5	47	98	67-133	70	30	M1,R1
n-Propylbenzene	ug/L	<0.090	20	20	9.1	19.2	45	96	67-129	72	30	M1,R1
Naphthalene	ug/L	<0.20	20	20	10.6	23.4	53	117	54-127	76	30	M1,R1
o-Xylene	ug/L	<0.12	20	20	9.9	21.5	49	108	60-127	74	30	M1,R1
p-Isopropyltoluene	ug/L	<0.12	20	20	9.6	20.6	48	103	69-130	73	30	M1,R1
sec-Butylbenzene	ug/L	<0.14	20	20	9.6	20.5	48	103	69-132	72	30	M1,R1
Styrene	ug/L	<0.13	20	20	9.7	21.4	49	107	66-132	75	30	M1,R1
tert-Butylbenzene	ug/L	<0.11	20	20	9.5	20.9	48	105	68-129	75	30	M1,R1
Tetrachloroethene	ug/L	<0.10	20	20	11.3	22.5	56	113	66-138	67	30	M1,R1
Toluene	ug/L	<0.11	20	20	9.2	19.8	46	99	61-125	73	30	M1,R1
trans-1,2-Dichloroethene	ug/L	21.7	20	20	31.1	40.3	47	93	60-135	26	30	M1
trans-1,3-Dichloropropene	ug/L	<0.13	20	20	9.6	21.6	48	108	64-128	77	30	M1,R1
Trichloroethene	ug/L	0.25J	20	20	10.2	21.2	50	105	65-137	70	30	M1,R1
Trichlorofluoromethane	ug/L	<0.10	20	20	8.3	22.2	42	111	69-140	91	30	M1,R1
Vinyl chloride	ug/L	46.3	20	20	51.9	60.8	28	72	63-132	16	30	M1
1,2-Dichlorobenzene-d4 (S)	%.						100	100	70-130			
4-Bromofluorobenzene (S)	%.						100	101	75-125			
Toluene-d8 (S)	%.						94	95	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141989 4141990

Parameter	Units	10581714003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.18	20	20	16.8	8.3	84	41	57-134	68	30	M1,R1
1,1,1-Trichloroethane	ug/L	<0.17	20	20	16.5	8.4	82	42	62-136	65	30	M1,R1
1,1,2,2-Tetrachloroethane	ug/L	<0.18	20	20	15.5	7.6	77	38	63-127	68	30	M1,R1
1,1,2-Trichloroethane	ug/L	<0.20	20	20	16.8	8.2	84	41	65-128	69	30	M1,R1
1,1-Dichloroethane	ug/L	<0.14	20	20	15.4	7.9	77	39	63-128	64	30	M1,R1
1,1-Dichloroethene	ug/L	<0.10	20	20	18.2	9.7	91	49	59-135	61	30	M1,R1
1,1-Dichloropropene	ug/L	<0.12	20	20	16.8	9.0	84	45	64-135	61	30	M1,R1
1,2,3-Trichlorobenzene	ug/L	<0.16	20	20	15.8	8.7	79	43	59-133	59	30	M1,R1
1,2,3-Trichloropropane	ug/L	<1.2	20	20	15.7	7.9	79	40	62-125	66	30	M1,R1
1,2,4-Trichlorobenzene	ug/L	<0.061	20	20	14.3	7.8	71	39	54-137	58	30	M1,R1
1,2,4-Trimethylbenzene	ug/L	<0.12	20	20	14.3	7.5	71	37	68-126	63	30	M1,R1
1,2-Dibromo-3-chloropropane	ug/L	<0.82	50	50	43.0	20.5	86	41	55-135	71	30	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141989 4141990

Parameter	Units	10581714003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.19	20	20	17.3	8.5	86	43	64-125	68	30	M1,R1
1,2-Dichlorobenzene	ug/L	<0.18	20	20	14.4	7.5	72	38	65-130	63	30	M1,R1
1,2-Dichloroethane	ug/L	<0.14	20	20	14.8	7.3	74	36	58-125	68	30	M1,R1
1,2-Dichloropropane	ug/L	<0.24	20	20	15.5	7.9	77	39	65-125	65	30	M1,R1
1,3,5-Trimethylbenzene	ug/L	<0.096	20	20	14.6	7.6	73	38	67-125	62	30	M1,R1
1,3-Dichlorobenzene	ug/L	<0.13	20	20	14.1	7.7	70	39	68-131	58	30	M1,R1
1,3-Dichloropropane	ug/L	<0.15	20	20	17.2	8.4	86	42	65-125	69	30	M1,R1
1,4-Dichlorobenzene	ug/L	<0.15	20	20	13.5	7.3	68	37	64-127	59	30	M1,R1
2,2-Dichloropropane	ug/L	<0.27	20	20	15.6	7.8	78	39	65-131	67	30	M1,R1
2-Chlorotoluene	ug/L	<0.11	20	20	14.5	7.6	72	38	69-125	62	30	M1,R1
4-Chlorotoluene	ug/L	<0.085	20	20	13.9	7.4	70	37	61-129	61	30	M1,R1
Benzene	ug/L	0.78J	20	20	17.0	9.2	81	42	60-125	60	30	M1,R1
Bromobenzene	ug/L	<0.18	20	20	15.2	7.9	76	39	61-125	64	30	M1,R1
Bromochloromethane	ug/L	<0.40	20	20	15.5	8.0	77	40	62-127	64	30	M1,R1
Bromodichloromethane	ug/L	<0.21	20	20	14.9	7.5	75	37	63-127	67	30	M1,R1
Bromoform	ug/L	<0.24	20	20	16.4	8.1	82	40	62-134	68	30	M1,R1
Bromomethane	ug/L	<1.9	20	20	11.5	5.8J	58	29	30-150	67	30	M1,R1
Carbon tetrachloride	ug/L	<0.14	20	20	16.2	8.7	81	44	63-142	60	30	M1,R1
Chlorobenzene	ug/L	<0.11	20	20	15.3	7.7	77	39	65-128	66	30	M1,R1
Chloroethane	ug/L	<0.41	20	20	14.9	7.9	74	39	61-142	62	30	M1,R1
Chloroform	ug/L	<0.14	20	20	14.5	7.5	72	38	63-125	63	30	M1,R1
Chloromethane	ug/L	<0.22	20	20	12.7	6.8	63	34	56-132	61	30	M1,R1
cis-1,2-Dichloroethene	ug/L	0.23J	20	20	17.0	8.9	84	43	63-125	62	30	M1,R1
cis-1,3-Dichloropropene	ug/L	<0.16	20	20	15.6	7.8	78	39	61-126	66	30	M1,R1
Dibromochloromethane	ug/L	<0.17	20	20	17.1	8.4	85	42	70-131	68	30	M1,R1
Dibromomethane	ug/L	<0.31	20	20	16.2	8.1	81	41	66-126	67	30	M1,R1
Dichlorodifluoromethane	ug/L	<0.16	20	20	15.7	8.0	78	40	59-137	65	30	M1,R1
Diethyl ether (Ethyl ether)	ug/L	<0.24	20	20	15.0	7.3	75	37	59-128	69	30	M1,R1
Ethylbenzene	ug/L	<0.069	20	20	14.7	7.7	73	38	61-125	62	30	M1,R1
Hexachloro-1,3-butadiene	ug/L	<0.43	20	20	14.4	8.5	72	43	53-143	51	30	M1,R1
Isopropylbenzene (Cumene)	ug/L	<0.11	20	20	16.4	8.5	82	43	75-128	63	30	M1,R1
m&p-Xylene	ug/L	<0.18	40	40	31.6	16.4	79	41	62-125	63	30	M1,R1
Methyl-tert-butyl ether	ug/L	<0.18	20	20	16.4	7.9	82	39	61-125	70	30	M1,R1
Methylene Chloride	ug/L	<0.83	20	20	15.7	8.2	78	41	58-125	63	30	M1,R1
n-Butylbenzene	ug/L	<0.052	20	20	13.4	7.6	67	38	67-133	55	30	M1,R1
n-Propylbenzene	ug/L	<0.090	20	20	14.2	7.6	71	38	67-129	61	30	M1,R1
Naphthalene	ug/L	<0.20	20	20	18.7	9.6	93	48	54-127	64	30	M1,R1
o-Xylene	ug/L	<0.12	20	20	16.5	8.4	82	42	60-127	65	30	M1,R1
p-Isopropyltoluene	ug/L	<0.12	20	20	14.7	8.1	74	40	69-130	59	30	M1,R1
sec-Butylbenzene	ug/L	<0.14	20	20	14.9	8.2	75	41	69-132	58	30	M1,R1
Styrene	ug/L	<0.13	20	20	16.3	8.2	82	41	66-132	67	30	M1,R1
tert-Butylbenzene	ug/L	<0.11	20	20	16.2	8.4	81	42	68-129	64	30	M1,R1
Tetrachloroethene	ug/L	<0.10	20	20	16.6	9.3	83	46	66-138	57	30	M1,R1
Toluene	ug/L	0.28J	20	20	15.9	8.2	78	40	61-125	64	30	M1,R1
trans-1,2-Dichloroethene	ug/L	0.53J	20	20	16.8	9.5	81	45	60-135	55	30	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141989 4141990

Parameter	Units	10581714003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,3-Dichloropropene	ug/L	<0.13	20	20	16.4	8.1	82	40	64-128	68	30	M1,R1
Trichloroethene	ug/L	<0.13	20	20	16.3	8.6	81	43	65-137	62	30	M1,R1
Trichlorofluoromethane	ug/L	<0.10	20	20	17.8	9.2	89	46	69-140	64	30	M1,R1
Vinyl chloride	ug/L	<0.063	20	20	16.3	8.6	81	43	63-132	61	30	M1,R1
1,2-Dichlorobenzene-d4 (S)	%.						99	100	70-130			
4-Bromofluorobenzene (S)	%.						99	99	75-125			
Toluene-d8 (S)	%.						95	95	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

QC Batch: 777500 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity, Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10581978001, 10581978002, 10581978003, 10581978004, 10581978005

METHOD BLANK: 4141810 Matrix: Water
Associated Lab Samples: 10581978001, 10581978002, 10581978003, 10581978004, 10581978005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	<1.8	6.1	10/18/21 13:25	

LABORATORY CONTROL SAMPLE & LCSD: 4141811 4141812

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3, Dissolved	mg/L	40	42.6	38.3	107	96	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141813 4141814

Parameter	Units	10581978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3, Dissolved	mg/L	465	40	40	488	506	57	100	80-120	3	20	P6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

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.

BATCH QUALIFIERS

Batch: 777217

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, bromomethane, chloroethane, and allyl chloride. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 777555

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, bromomethane, chloroethane, & acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494 SRC GW Sampling GEM
Pace Project No.: 10581978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10581978001	**MW-8R**	EPA 200.7	775770	EPA 200.7	775958
10581978002	**MW-1**	EPA 200.7	775770	EPA 200.7	775958
10581978003	**MW-2**	EPA 200.7	775770	EPA 200.7	775958
10581978004	**MW-3D**	EPA 200.7	775770	EPA 200.7	775958
10581978005	**MW-9B**	EPA 200.7	775770	EPA 200.7	775958
10581978001	**MW-8R**	EPA 8260D	777217		
10581978002	**MW-1**	EPA 8260D	777217		
10581978003	**MW-2**	EPA 8260D	777555		
10581978004	**MW-3D**	EPA 8260D	777555		
10581978005	**MW-9B**	EPA 8260D	777555		
10581978006	**Trip Blank**	EPA 8260D	777555		
10581978001	**MW-8R**	SM 2320B	777500		
10581978002	**MW-1**	SM 2320B	777500		
10581978003	**MW-2**	SM 2320B	777500		
10581978004	**MW-3D**	SM 2320B	777500		
10581978005	**MW-9B**	SM 2320B	777500		

Barr Engineering Co. Chain of Custody

BARR ☐ Ann Arbor ☒ Duluth ☐ Hibbing ☐ Minneapolis
☐ Bismarck ☐ Grand Rapids ☐ Jefferson City ☐ Salt Lake City

Sample Origination State:
☐ KS ☐ MO ☐ UT
☐ MI ☐ ND ☒ WI
☐ MN ☐ SD Other: ____

COC Number: 57636
COC 1 of 1

WO#: 10581978

REPORT TO	INVOICE TO
Company: Barr Engineering Co.	Company: Barr
Address: 325 S. Lake Ave, Duluth MN	Address:
Name: Lynette Carney	Name:
email: lcarney@barr.com	email:
Copy to: datamgt@barr.com	P.O. —
Project Name: SRC GW sampling GEM	Barr Project No: 49161494.01 200 203

Location	Sample Depth Start	Stop	Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested: Water B (VOCs (EPA method 8260))	Water A (Hardness, Alkalinity)	Water C (Dissolved Lead)	Soil % Solids	Preservative Code	Field Filtered Y/N
							N		B	A	C			
							N		Y	Y	Y			
1. MW-8R	—			10/04/21	1030	GW	N	5	X	X	X	X		001
2. MW-1	—			10/04/21	1445		N	5	X	X	X	X		002
3. MW-2	—			10/05/21	1012		N	5	X	X	X	X		003
4. MW-3D	—			10/05/21	1032		N	5	X	X	X	X		004
5. MW-9B	—			10/05/21	1050		N	5	X	X	X	X		005
6. Trip Blank				10/04/21	—	—	N	3	X					006
7.														
8.														
9.														
10.														

O = Other
G = $NaHSO_4$
H = $Na_2S_2O_3$
I = Ascorbic Acid
J = NH_4Cl
K = Zn Acetate
O = Other

BARR USE ONLY								
Sampled by: KMJ3	Relinquished by: Keith Mots	On Ice? Y N	Date 10/5/21	Time 1248	Received by: Velocity/Pace	Date 10/5/21	Time 12:50	
Barr Proj. Manager: LMC	Relinquished by:	On Ice? Y N	Date	Time	Received by: PACE	Date 10/6/21	Time 1355	5.1°
Barr DQ Manager: JET	Samples Shipped VIA: ☐ Courier ☐ Federal Express ☐ Sampler ☐ Other:				Air Bill Number:			
Lab Name: Pace								
Lab Location: Minneapolis, MN	Lab WO:	Temperature on Receipt (°C): 3.3			Custody Seal Intact? ☐ Y ☐ N ☐ None			

Requested Due Date:
☒ Standard Turn Around Time
☐ Rush ____ (mm/dd/yyyy)

Distribution - White-Original: Accompanies Shipment to Laboratory; **Yellow Copy:** Include in Field Documents; **Pink Copy:** Send to Data Management Administrators.

H:\RLG\STDFORMS\Chain Of Custody Form 2015 RLG Rev. 01/02/18

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 14Apr2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.02**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: Barr

Project #:

WO#: 10581978
PM: AA1 **Due Date: 10/20/21**
CLIENT: BARR

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ **See Exceptions** ☐ **ENV-FRM-MIN4-0142**

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) ☐ OS418-LS ☐ T4(0254) ☐ T5(0489) ☐ 160285052 **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:** 5.1 °C **Average Corrected Temp (no temp blank only):** _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: tnw **Cooler Temp Corrected w/temp blank:** 5.1 °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Date/Initials of Person Examining Contents: AL 10/6/21

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?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No		8.
-Pace Containers Used?	☒ Yes	☐ No		MAL 10·6·21
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other _____				
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample # 1-5: 1/1
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine: 0-6 Roll 221419; 0-6 Strip 223819AV; 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 329104(2)

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 10/7/21

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: KNC (2)