

February 26, 2021

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

**Re: 2020 Remediation Progress Report for Murphy Oil Tank 68 Release Site  
Superior Refining Company LLC Refinery, Superior, WI  
WDNR BRRTS# 02-16-526812  
Facility ID: 816009590**

Dear John:

On behalf of Superior Refining Company LLC (SRC), Barr Engineering Co. (Barr) is submitting this remediation progress report for the Murphy Oil Tank 68 Basin release site (Tank 68) at 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 2020.

## Facility and Site Background Information

Figure 1 shows the location of Tank 68 within the refinery, the approximate property boundary of the refinery, and the area surrounding the refinery. Figure 2 presents the site layout of Tank 68 which is located in the SW  $\frac{1}{4}$  of the SW  $\frac{1}{4}$  of Section 25, Township 49 North, Range 14 West, Superior Township of Douglas County, Wisconsin.

The closest surface water to Tank 68 is Newton Creek, located approximately 2,000 feet east of the Tank 68 basin (Figure 1). The Tank 68 basin is located in the central area of the refinery which is relatively flat. The basin's ground surface is unpaved and is underlain by native clay. The average depth to groundwater in the Tank 68 monitoring wells is 3 to 4 feet below ground surface (bgs) depending on time of year. The regional groundwater flow direction below the refinery and across the Tank 68 site is toward the east (Figure 2).

As presented in the April 2014 Gannett Fleming, Inc. (GF) *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan* (GF, 2014), the hydraulic conductivity of the native clay underlying the refinery is on the order of  $1 \times 10^{-7}$  centimeters per second (cm/sec). Assuming a horizontal hydraulic gradient of 0.003 feet per foot 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 November 2017, Husky Superior Refining Holding Corp. (Husky Superior) purchased Calumet and changed its legal name to Superior Refining Company LLC. In January 2021, Husky and Cenovus Energy Inc. (Cenovus) merged to become Cenovus; however, the legal name of the refinery will remain unchanged.

## Tank 68 Basin Release Site Investigation and Remediation Summary

The Tank 68 release is associated with historical contamination discovered during an investigation at the adjacent Tank 65-66 basin in 2004. The Tank 68 basin monitoring network currently includes monitoring wells MW-5/T66, MW-1/T68, MW-2/T68, and MW-4/T68, MW-5/T68, and MW-6/T68 and monitoring points MP-1/T68, MW-2/T68, MP-3/T68, as shown on Figure 2. In 2001, MW-5/T66 was transferred from the Tanks 65/66 release site to the Tank 68 basin site because of the occurrence of free product in MW-5/T66. The free product in MW-5/T66 was first observed in January 2000 during a site investigation associated with the Tanks 65/66 basin east of Tank 68. This location has not been associated with any known release. In 2008, upgradient monitoring well MW-3/T68 was sealed and abandoned. During the time period 2010 to 2012, test pit sump TP-1/T68 was lost (buried or removed).

Multiple phases of investigation have been completed at the site including soil borings and test pits and the installation of monitoring wells and points. Currently, long-term groundwater monitoring is being conducted at the site as well as product gauging and passive recovery. This report presents monitoring and product gauging data for 2020.

Research conducted by the American Petroleum Institute (API) and published in a 2004 document titled, "*API Interactive LNAPL Guide, Version 2.0*", found that periodic manual removal of product is most appropriate for low permeability aquifers (hydraulic conductivity  $< 1 \times 10^{-5}$  cm/sec). The hydraulic conductivity of the native clay underlying the refinery is on the order of  $1 \times 10^{-7}$  cm/sec, as described in the previous section of this letter report (GF, 2014).

Based on the recommendations included in the API Interactive LNAPL Guide document, product has been manually bailed when observed in a monitoring well. The API Interactive LNAPL Guide also states that product preferentially accumulates in wells when the potentiometric surface is low. This occurs because, as the potentiometric surface drops, product that remains above the water level will drain downward into the well. As the potentiometric surface rises, the product becomes submerged and trapped in the soil pores and subsequently will not accumulate in the well. To take advantage of this apparent pattern, the wells located in the basin were purged dry following each depth to product or groundwater measurement event to promote the accumulation of product.

Since February 2000, wells in the network have been routinely monitored for the presence of free product. Recovered product is sent through the refinery's No. 1 API oil/water separator. Separated oil is stored for use at the refinery. Separated and purged water is treated at the on-site wastewater treatment plant (WWTP).

## Remedial and Monitoring Activities in 2020

Since the most recent remediation progress report was submitted to the WDNR on December 4, 2019 (GF, 2019), work at Tank 68 has included the gauging of water and product levels in associated site monitoring wells and points, and the collection of groundwater samples from select locations.

Year-round access to monitoring wells and points at the refinery is not practical because of relatively shallow groundwater, cold weather, and snow. When conditions allow access, water and product levels are monitored monthly. If product is encountered, the product is removed and sent through the refinery's No.

1 API oil/water separator. Separated oil is stored for used at the refinery and the water is treated at the on-site WWTP.

Monitoring wells and points are gauged, purged and sampled in spring and fall (typically April /May and September/October). Monitoring wells and points are routinely checked for the presence of product and, if encountered, the product is removed from the well by bailing. Monitoring and sampling activities conducted in 2020 are summarized in Table 1.

## Product Recovery

During this reporting period, measurable product was not encountered in the monitoring wells or monitoring points. As established in the 2019 report (GF, 2019), if free product is not observed during the April/May gauging event, the wells and points are then checked quarterly (rather than monthly) through the October sampling event.

During April through October 2020, no product was encountered or recovered from the Tank 68 basin wells. GF's April 2014 report includes a 15-page table summarizing the historical volume of product removed from each well (GF, 2014). Since recovery began, approximately 102 gallons of product have been recovered from the Tank 68 basin with almost all (i.e., over 97%) from MW-2/T68, MW-5/T66, and MW-6/T68 (GF, 2019). Table 1 summarizes product measurements made since 2014. Since 2014, product has been limited to MW-5/T-66 and MW-5/T68. In each instance where product was measured in these wells, it was recovered through bailing. As shown on Table 1, product has not been encountered in MW-5/T66 since April 2019 and in MW-5/T68 since November 2018.

SRC will continue to check for free product, but for all practical purposes, free product likely has been recovered to the extent practical from the Tank 68 basin.

## Groundwater Sampling and Results

Groundwater samples were collected by Barr and Insight Environmental (Insight) field staff at the site during May and October 2020. Each well was purged dry twice and allowed to recover for at least 14 days between purge events and prior to the collection of the samples. Routine sampling of monitoring wells MW-1/T68, MW-2/T68, MW-4/T68, MW-5/T66, MW-5/T68, and MW-6/T68 was conducted on May 27, 2020 and October 6, 2020. Field staff used a new one-time-use polyethylene disposable bailer with new nylon rope to collect each groundwater sample. The May 2020 groundwater samples were sent to Pace Analytical (Pace) in Green Bay, Wisconsin (Wisconsin laboratory certification #405132750) and the October 2020 samples were sent to Pace in Minneapolis, Minnesota (Wisconsin laboratory certification #999407970). Groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260. The reported parameter lists from Pace Green Bay, Wisconsin and Pace Minneapolis, Minnesota are similar but not identical: the Minnesota report includes eight VOC compounds that are not included on the Wisconsin report and the Wisconsin report includes one VOC compound not included on the Minneapolis report.

Table 2 presents the analytical results of the groundwater samples compared to the NR 140 Preventative Action Limits (PAL) and Enforcement Standards (ES). As shown in Table 2:

- There were no compounds detected above the laboratory method detection limits (MDLs) in samples collected from upgradient well MW-1/T68 during the May and October 2020 events.

- Samples collected from the other five Tank 68 monitoring wells in May and October 2020 contained one or more VOC at concentrations equal to or greater than NR 140 ESs. However, because of the recovery of product over the years, overall VOC concentrations in the wells have been stable or decreasing, as demonstrated by the benzene concentrations shown in Figure 3.
- Figure 3 presents trend analysis plots for benzene concentrations in groundwater samples from MW-2/T68, MW-4/T68, MW-5/T66, and MW-6/T68. If benzene was not detected in a sample collected from a well, then the reported MDL was plotted for that date. Note that, with one exception, the plotted data for each well only includes the time since measurable free product was most recently encountered during a sampling event; at MW-6/T68 “discontinuous globules” of product were observed in 2016 and data is plotted starting with October 2011. Best-fit exponential trend lines were generated using a scatter plot chart. As shown on Figure 3, dissolved-phase benzene concentrations have followed a general downward trend in MW-2/T68, MW-4/T68, MW-5/T66, and MW-6/T68. Based on the relatively low groundwater flow velocity of approximately 0.01 foot/year (GF, 2014) and decreasing benzene concentrations, results indicate the overall benzene concentration in groundwater in the referenced wells remains stable or has been decreasing for at least the last five years.
- Two VOC compounds had reported detections for the first time in the October 2020 samples: methyl isobutyl ketone (MIBK) from MW-2/T68, MW-5/T68, and MW-6/T68; and styrene from MW-5/T68. The concentration of MIBK in the October 2020 samples from MW-2/T68 (76.2 ug/l), MW-5/T68 (250 ug/l), and MW-6/T68 (69.0 ug/l) exceeded the PAL of 50 ug/l. The concentration of styrene in the October 2020 sample from MW-5/T68 (34.4 ug/l) exceeded the PAL of 10 ug/l; note that the concentration of styrene was flagged by the laboratory as an estimated concentration between the limit of detection and the limit of quantitation. Concentrations of MIBK and styrene in the October 2020 samples were less than the ESs of 500 ug/l and 100 ug/l, respectively. A review of laboratory reports from 2018, 2019, and May 2020 indicate that the Pace Green Bay laboratory analyses did not include MIBK as an analyte and that the Pace Minneapolis laboratory analysis in October 2020 did include MIBK; therefore, the “first” detections of MIBK in the October 2020 samples can be attributed to the first analysis for MIBK. A review of laboratory reports from 2018, 2019, and 2020 indicate that the “first” detection of styrene in the October 2020 sample from MW-5/T68 can be attributed to a lower laboratory reporting limit compared to the previous sampling events at that well.

Attachment A provides copies of the laboratory reports and chain of custody records for the groundwater samples collected in 2020.

Historically, a groundwater contour map for the Tank 68 release site has not been prepared because groundwater levels in the wells either are influenced by local surface/melt water in the spring or typically do not have sufficient time to reach static levels after they are purged dry later in the year. Consequently, a groundwater contour map representing static conditions for the Tank 68 site has not been created. However, the regional groundwater flow direction in the vicinity of the Tank 68 site is to the east (GF, 2014) (Figure 2).

## Future Work

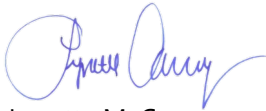
SRC's work plan for 2021 is as follows:

- Continue to check for, and if present, manually bail product, monthly (as conditions allow) from monitoring wells MW-5/T66 and MW-5/T68. If, however, product is not observed during the spring gauging event as was the case in 2019 and 2020, these wells will only be checked quarterly. Any purged product/water will continue to be separated and stored or sent through the refinery's No. 1 API oil/water separator and on-site WWTP.
- Discontinue monthly/quarterly product checks at the remaining four wells (MW-1/T68, MW-2/T68, MW-4/T68 and MW-6/T68) and three monitoring points (MP-1/T68, MP-2/T68, and MP-3/T68). If, however, product is observed during the spring gauging event, monthly monitoring of these locations will resume. If product is not observed, the wells and points will only be checked during the spring and fall sampling events.
- Collect biannual (spring and fall) groundwater samples from monitoring wells without product and have the samples analyzed for VOCs by a Wisconsin-certified laboratory using EPA Method 8260. Each monitoring well will be purged dry twice and allowed to recover for approximately 2 weeks prior to the collection of samples.
- Assuming product is not encountered for the third consecutive year in 2021 and benzene trends continue to decrease, a closure request will be prepared to be submitted by the end of January 2022 for WDNR review and approval. However, if product is encountered in one or more wells in 2021 or there is an increasing trend in benzene concentrations in groundwater, a summary report letter will be prepared instead.

Feel free to contact Matt Turner at SRC and/or me if you have any comments, questions, or need additional information.

Sincerely,

BARR ENGINEERING CO.



Lynette M. Carney

Project Manager

cc: Matt Turner (SRC)

### Tables

Table 1 Fluid Level Monitoring Data, 2014-2020

Table 2 Historical Groundwater Analytical Results for Detected Compounds

## Figures

Figure 1 Site Location Map

Figure 2 Tank 68 Site Layout and Monitoring Locations

Figure 3 Benzene Groundwater Concentrations vs. Time,  
MW-2/68, MW-4/68, MW-5/T66 and MW-6/T68

## Attachments

Attachment A Pace Analytical Laboratory Reports

## References

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

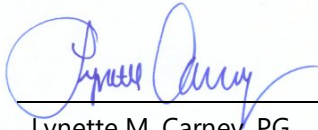
GF, 2019. *2019 Remediation Progress Report for Tank 68 Release Site, Superior Refining Company LLC Refinery, Superior, WI, WDNR BRRTS# 02-16-526812 and Facility ID: 816009590*. December 4, 2019.

Wisconsin Department of Natural Resources (WDNR), 2020. *Reminder to Include Evaluation of Emerging Contaminants in Site Investigation, Murphy Oil – Tank Basin #68, 2407 Stinson Avenue, BRRTS# 02-16-526812*. Letter to Husky Energy dated August 17, 2020.

WDNR, 2021. *Activity Details summary table page for Activity Number 02-16-526812 Murphy Oil – Tank Basin #68*. Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web. <https://dnr.wisconsin.gov/topic/Brownfields/botw.html>. Accessed January 2021.

## 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."



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Lynette M. Carney, PG  
Reg #: 1138

2/26/2021

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Date

## Tables













Superior Refining Company LLC  
Superior, Wisconsin

**Table 2**  
**Historical Groundwater Analytical Results for Detected Compounds - Tank 68 Release Site (1)**

Well ID	Substance Concentration (µg/l) and Results Qualifiers (if any)																							
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloromethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	n-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachloroethene	Dissolved Lead
<b>NR 140 PAL</b>	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	3	0.5	NS	NS	NS	NS	NS	10	40	0.5	1.5
<b>NR 140 ES</b>	NS	<b>5</b>	<b>700</b>	<b>800</b>	<b>2,000</b>	<b>480</b>	60	500	<b>100</b>	NS	NS	NS	NS	30	<b>5</b>	NS	NS	NS	NS	NS	100	200	5	15

**NOTES:**

Detected concentrations at or above an applicable NR 140 PAL are in **bold** font; those at or above an NR 140 ES are in *italicized* font.

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

BQX = Value exceeds PAL despite being classified as not detected. It is possible one or more of the compounds added together to derived this value were detected in the original sample.

DP = Discontinuous product globules, well not sampled.

FP = Free product, well not sampled.

GRO = Gasoline range organics.

J (Pre 2020) = Estimated concentration below laboratory quantitation level.

J (Post 2020) = Estimated detected value. Either certain QC criteria were not met or the concentration is between the laboratory's detection and quantitation limits.

MTBE = Methyl tert butyl ether.

na = Not analyzed.

NI = Not installed.

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

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

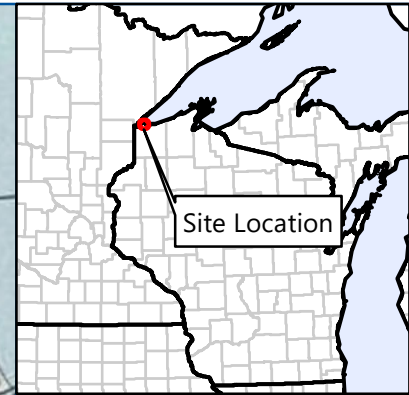
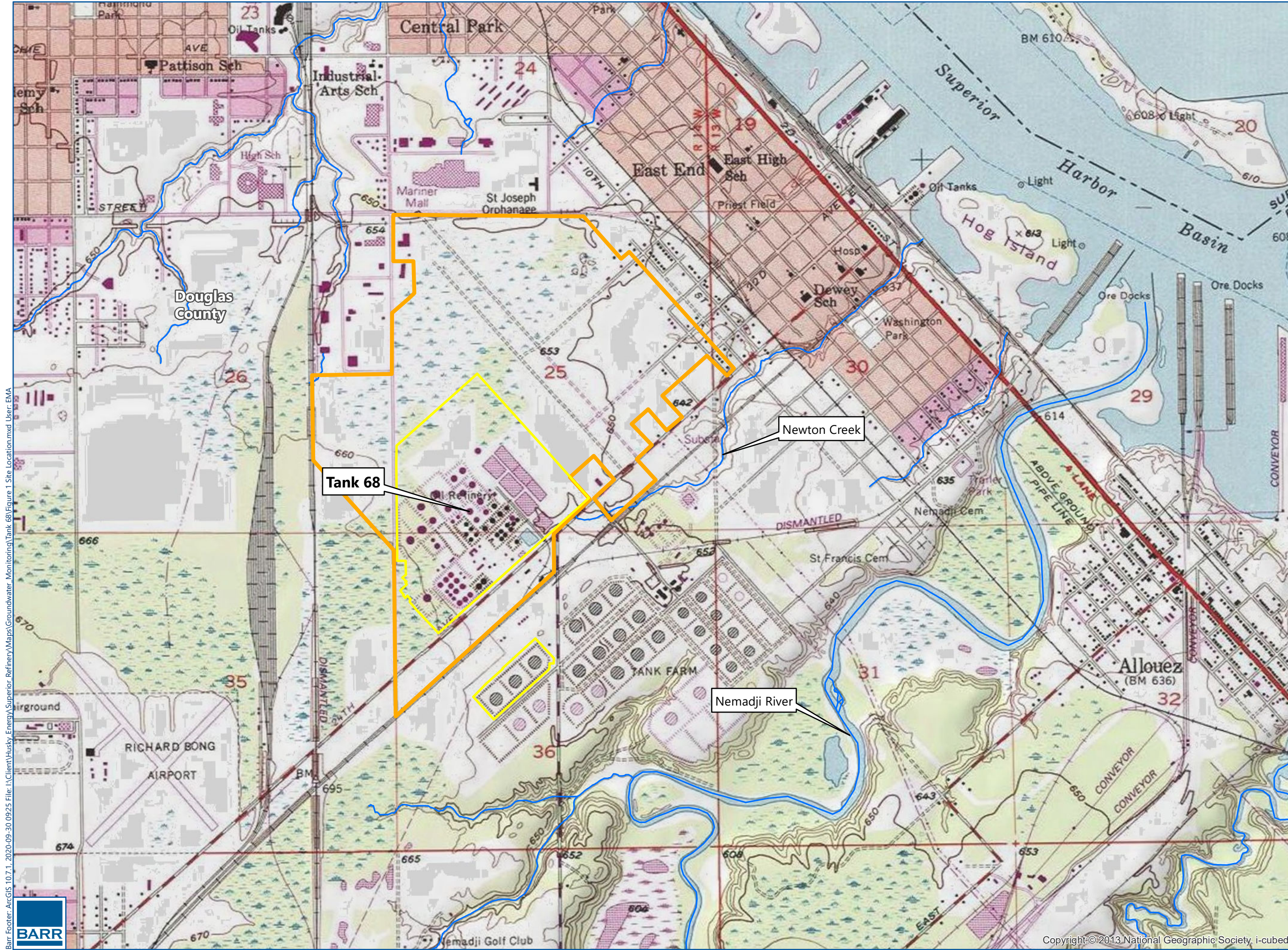
NS = No standard.

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

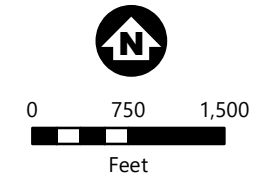
(1) = In addition, 244 µg/l of 1,3-dichloropropane was detected in the sample collected from MW-5/T66 on 10/25/17. However, 1,3-dichloropropane has no NR 140 PAL or NR 140 ES. Consequently, Table 2 was not revised to include all 1,3-dichloropropane data.

(2) = No data available.

## Figures



- Approximate SRC Property Boundaries for Contiguous Operations
- Approximate Fenceline Boundaries for Refining-Related Activities



**SITE LOCATION**  
 Superior Refining Company LLC (SRC)  
 Superior, WI  
**FIGURE 1**





Barr Footer: ArcGIS 10.7.1, 2020-10-27 13:12 File: \\Client\Husky\_Energy\Superior\_Refinery\Maps\Groundwater\_Monitoring\Tank 68\Figure 2 Site Layout and Monitoring Locations-Tank 68.mxd User: EMA

Tank No. 30

Tank No. 69

Tank No. 41

Tank No. 66

Tank No. 38

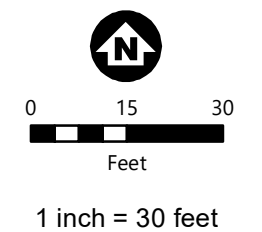


- Geoprobe (GP)/  
Hand Auger (HA)  
Boring Locations  
(April/May 2002)
- Monitoring Point  
(July 2001)
- Test Pit
- ⊕ Monitoring Well
- General Direction of  
Groundwater Flow
- Contaminant Berm
- Wet Area

Notes:

1. Gray shaded well, test pit, and geoprobe and hand auger boring locations have been abandoned.
2. Each monitoring point (MP) is 7 feet deep and consists of 4" diameter PVC with 3 feet of slotted PVC screen.

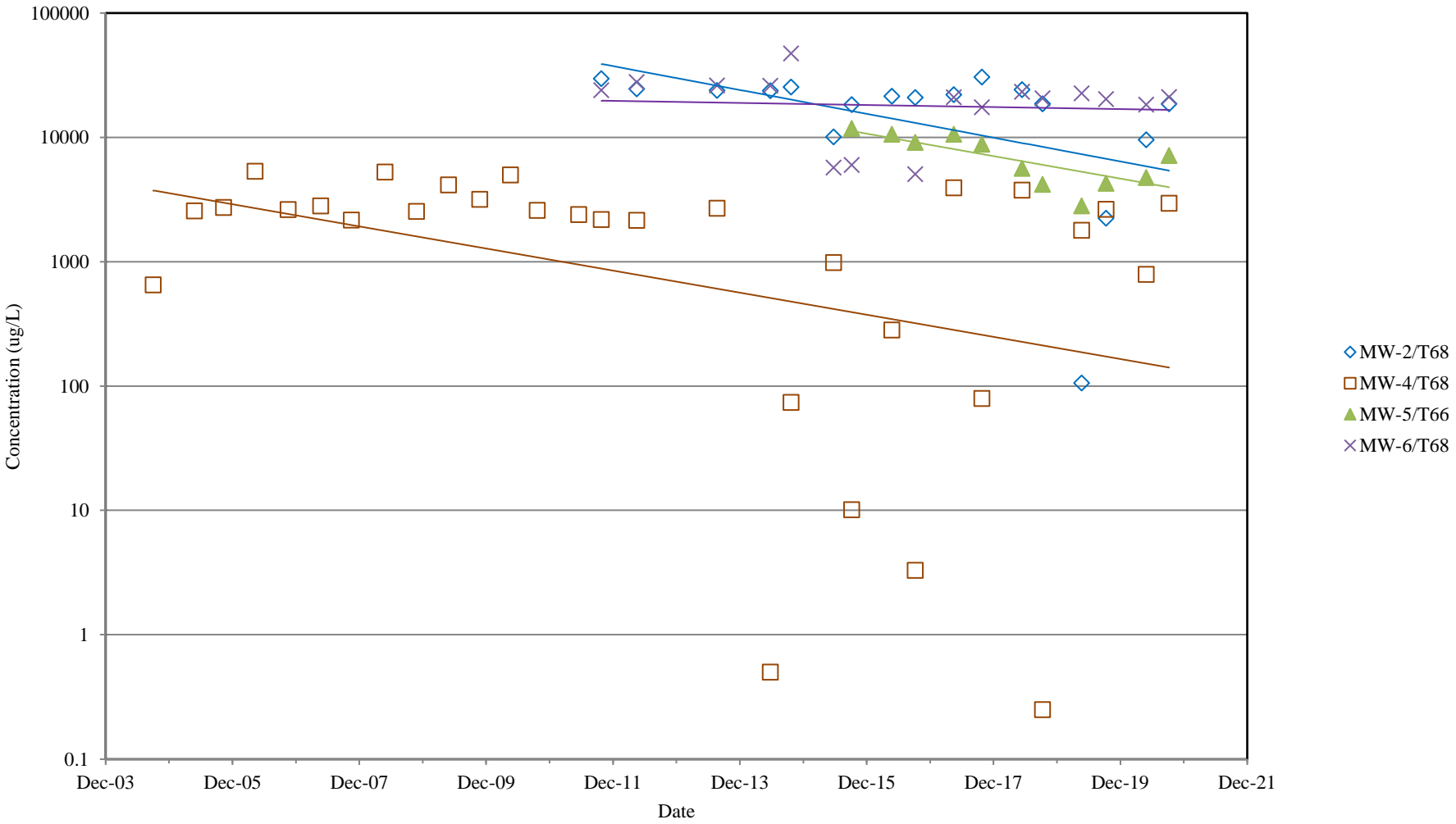
Source: Gannett Fleming. Sample locations are based on field measurements made by Gannett Fleming and are approximate. Locations were not surveyed.



**TANK 68 SITE LAYOUT & MONITORING LOCATIONS**  
Superior Refining  
Company LLC (SRC)  
Superior, WI  
**FIGURE 2**



FIGURE 3



Note: Best-fit exponential trend lines generated using Excel and non-detect concentrations (if any) plotted at detection limit.

BENZENE GROUNDWATER CONCENTRATIONS TANK 68 BASIN

SUPERIOR REFINING COMPANY LLC  
SUPERIOR, WISCONSIN

\*Discontinuous product globules observed at MW-6/T68 on May 24, 2016.

## **Attachments**

**Attachment A**

**Pace Analytical Laboratory Reports**

June 12, 2020

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

RE: Project: 49161494.00 200 202 SRC GW 68  
Pace Project No.: 10519566

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: BarrDM, Barr Engineering Company  
Data Management, Barr Engineering  
Accounts Payable, Barr Engineering



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10519566001	MW-1/T68	Water	05/27/20 13:20	05/28/20 18:45
10519566002	MW-2/T68	Water	05/27/20 13:35	05/28/20 18:45
10519566003	MW-4/T68	Water	05/27/20 13:39	05/28/20 18:45
10519566004	MW-5/T68	Water	05/27/20 13:42	05/28/20 18:45
10519566005	MW-6/T68	Water	05/27/20 13:46	05/28/20 18:45
10519566006	MW-5/T66	Water	05/27/20 13:27	05/28/20 18:45
10519566007	Trip Blank	Water	05/27/20 00:00	05/28/20 18:45

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### SAMPLE ANALYTE COUNT

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10519566001	MW-1/T68	EPA 8260	HNW	64	PASI-G
10519566002	MW-2/T68	EPA 8260	HNW	64	PASI-G
10519566003	MW-4/T68	EPA 8260	HNW	64	PASI-G
10519566004	MW-5/T68	EPA 8260	HNW	64	PASI-G
10519566005	MW-6/T68	EPA 8260	HNW	64	PASI-G
10519566006	MW-5/T66	EPA 8260	HNW	64	PASI-G
10519566007	Trip Blank	EPA 8260	HNW	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-1/T68**      **Lab ID: 10519566001**      Collected: 05/27/20 13:20      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/02/20 14:17	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/02/20 14:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:17	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/02/20 14:17	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/02/20 14:17	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/02/20 14:17	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/02/20 14:17	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		06/02/20 14:17	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/02/20 14:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/02/20 14:17	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/02/20 14:17	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/02/20 14:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/02/20 14:17	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/02/20 14:17	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:17	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:17	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/02/20 14:17	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/02/20 14:17	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/02/20 14:17	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/02/20 14:17	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/02/20 14:17	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/02/20 14:17	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/02/20 14:17	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/02/20 14:17	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/02/20 14:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/02/20 14:17	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/02/20 14:17	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/02/20 14:17	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/02/20 14:17	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		06/02/20 14:17	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/02/20 14:17	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/02/20 14:17	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/02/20 14:17	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/02/20 14:17	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/02/20 14:17	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/02/20 14:17	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/02/20 14:17	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/02/20 14:17	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		06/02/20 14:17	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		06/02/20 14:17	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		06/02/20 14:17	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/02/20 14:17	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/02/20 14:17	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/02/20 14:17	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		06/02/20 14:17	100-42-5	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-1/T68**      **Lab ID: 10519566001**      Collected: 05/27/20 13:20      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/02/20 14:17	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		06/02/20 14:17	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/02/20 14:17	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/02/20 14:17	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/02/20 14:17	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/02/20 14:17	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/02/20 14:17	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/02/20 14:17	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/02/20 14:17	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/02/20 14:17	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/02/20 14:17	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/02/20 14:17	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/02/20 14:17	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/02/20 14:17	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		06/02/20 14:17	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/02/20 14:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	70-130		1		06/02/20 14:17	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		06/02/20 14:17	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/02/20 14:17	2037-26-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-2/T68**      **Lab ID: 10519566002**      Collected: 05/27/20 13:35      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<13.5	ug/L	50.0	13.5	50		06/02/20 09:17	630-20-6	
1,1,1-Trichloroethane	<12.2	ug/L	50.0	12.2	50		06/02/20 09:17	71-55-6	
1,1,2,2-Tetrachloroethane	<13.8	ug/L	50.0	13.8	50		06/02/20 09:17	79-34-5	
1,1,2-Trichloroethane	<27.6	ug/L	250	27.6	50		06/02/20 09:17	79-00-5	
1,1-Dichloroethane	<13.6	ug/L	50.0	13.6	50		06/02/20 09:17	75-34-3	
1,1-Dichloroethene	<12.2	ug/L	50.0	12.2	50		06/02/20 09:17	75-35-4	
1,1-Dichloropropene	<27.0	ug/L	90.0	27.0	50		06/02/20 09:17	563-58-6	
1,2,3-Trichlorobenzene	<111	ug/L	368	111	50		06/02/20 09:17	87-61-6	
1,2,3-Trichloropropane	<29.5	ug/L	250	29.5	50		06/02/20 09:17	96-18-4	
1,2,4-Trichlorobenzene	<47.6	ug/L	250	47.6	50		06/02/20 09:17	120-82-1	
1,2,4-Trimethylbenzene	1620	ug/L	140	42.0	50		06/02/20 09:17	95-63-6	
1,2-Dibromo-3-chloropropane	<88.2	ug/L	294	88.2	50		06/02/20 09:17	96-12-8	
1,2-Dibromoethane (EDB)	<41.5	ug/L	138	41.5	50		06/02/20 09:17	106-93-4	
1,2-Dichlorobenzene	<35.3	ug/L	118	35.3	50		06/02/20 09:17	95-50-1	
1,2-Dichloroethane	941	ug/L	50.0	14.0	50		06/02/20 09:17	107-06-2	
1,2-Dichloropropane	<14.1	ug/L	50.0	14.1	50		06/02/20 09:17	78-87-5	
1,3,5-Trimethylbenzene	606	ug/L	146	43.7	50		06/02/20 09:17	108-67-8	
1,3-Dichlorobenzene	<31.4	ug/L	105	31.4	50		06/02/20 09:17	541-73-1	
1,3-Dichloropropane	<41.3	ug/L	138	41.3	50		06/02/20 09:17	142-28-9	
1,4-Dichlorobenzene	<47.2	ug/L	157	47.2	50		06/02/20 09:17	106-46-7	
2,2-Dichloropropane	<113	ug/L	378	113	50		06/02/20 09:17	594-20-7	
2-Chlorotoluene	<46.3	ug/L	250	46.3	50		06/02/20 09:17	95-49-8	
4-Chlorotoluene	<37.8	ug/L	126	37.8	50		06/02/20 09:17	106-43-4	
Benzene	9570	ug/L	50.0	12.3	50		06/02/20 09:17	71-43-2	
Bromobenzene	<12.1	ug/L	50.0	12.1	50		06/02/20 09:17	108-86-1	
Bromochloromethane	<18.1	ug/L	250	18.1	50		06/02/20 09:17	74-97-5	
Bromodichloromethane	<18.2	ug/L	60.6	18.2	50		06/02/20 09:17	75-27-4	
Bromoform	<199	ug/L	662	199	50		06/02/20 09:17	75-25-2	
Bromomethane	<48.6	ug/L	250	48.6	50		06/02/20 09:17	74-83-9	
Carbon tetrachloride	<53.8	ug/L	179	53.8	50		06/02/20 09:17	56-23-5	
Chlorobenzene	<35.5	ug/L	118	35.5	50		06/02/20 09:17	108-90-7	
Chloroethane	<67.1	ug/L	250	67.1	50		06/02/20 09:17	75-00-3	
Chloroform	<63.7	ug/L	250	63.7	50		06/02/20 09:17	67-66-3	
Chloromethane	<109	ug/L	365	109	50		06/02/20 09:17	74-87-3	
Dibromochloromethane	<130	ug/L	434	130	50		06/02/20 09:17	124-48-1	
Dibromomethane	<46.8	ug/L	156	46.8	50		06/02/20 09:17	74-95-3	
Dichlorodifluoromethane	<25.0	ug/L	250	25.0	50		06/02/20 09:17	75-71-8	
Diisopropyl ether	<94.4	ug/L	315	94.4	50		06/02/20 09:17	108-20-3	
Ethylbenzene	525	ug/L	53.1	15.9	50		06/02/20 09:17	100-41-4	
Hexachloro-1,3-butadiene	<73.1	ug/L	244	73.1	50		06/02/20 09:17	87-68-3	
Isopropylbenzene (Cumene)	<84.3	ug/L	281	84.3	50		06/02/20 09:17	98-82-8	
Methyl-tert-butyl ether	<62.3	ug/L	208	62.3	50		06/02/20 09:17	1634-04-4	
Methylene Chloride	<29.0	ug/L	250	29.0	50		06/02/20 09:17	75-09-2	
Naphthalene	173J	ug/L	250	58.8	50		06/02/20 09:17	91-20-3	
Styrene	<150	ug/L	502	150	50		06/02/20 09:17	100-42-5	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-2/T68**      **Lab ID: 10519566002**      Collected: 05/27/20 13:35      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<16.3	ug/L	54.4	16.3	50		06/02/20 09:17	127-18-4	
Toluene	7520	ug/L	44.9	13.5	50		06/02/20 09:17	108-88-3	
Trichloroethene	<12.8	ug/L	50.0	12.8	50		06/02/20 09:17	79-01-6	
Trichlorofluoromethane	<10.7	ug/L	50.0	10.7	50		06/02/20 09:17	75-69-4	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		06/02/20 09:17	75-01-4	
cis-1,2-Dichloroethene	<13.6	ug/L	50.0	13.6	50		06/02/20 09:17	156-59-2	
cis-1,3-Dichloropropene	<181	ug/L	605	181	50		06/02/20 09:17	10061-01-5	
m&p-Xylene	5290	ug/L	100	23.3	50		06/02/20 09:17	179601-23-1	
n-Butylbenzene	<35.4	ug/L	118	35.4	50		06/02/20 09:17	104-51-8	
n-Propylbenzene	<40.5	ug/L	250	40.5	50		06/02/20 09:17	103-65-1	
o-Xylene	3230	ug/L	50.0	13.1	50		06/02/20 09:17	95-47-6	
p-Isopropyltoluene	<40.0	ug/L	133	40.0	50		06/02/20 09:17	99-87-6	
sec-Butylbenzene	<42.4	ug/L	250	42.4	50		06/02/20 09:17	135-98-8	
tert-Butylbenzene	<15.2	ug/L	50.6	15.2	50		06/02/20 09:17	98-06-6	
trans-1,2-Dichloroethene	<23.2	ug/L	77.4	23.2	50		06/02/20 09:17	156-60-5	
trans-1,3-Dichloropropene	<219	ug/L	728	219	50		06/02/20 09:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		50		06/02/20 09:17	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		50		06/02/20 09:17	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		06/02/20 09:17	2037-26-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-4/T68**      **Lab ID: 10519566003**      Collected: 05/27/20 13:39      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		06/02/20 09:38	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		06/02/20 09:38	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		06/02/20 09:38	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		06/02/20 09:38	79-00-5	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		06/02/20 09:38	75-34-3	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		06/02/20 09:38	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		06/02/20 09:38	563-58-6	
1,2,3-Trichlorobenzene	<11.1	ug/L	36.8	11.1	5		06/02/20 09:38	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		06/02/20 09:38	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		06/02/20 09:38	120-82-1	
1,2,4-Trimethylbenzene	221	ug/L	14.0	4.2	5		06/02/20 09:38	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		06/02/20 09:38	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		06/02/20 09:38	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		06/02/20 09:38	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		06/02/20 09:38	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		06/02/20 09:38	78-87-5	
1,3,5-Trimethylbenzene	8.0J	ug/L	14.6	4.4	5		06/02/20 09:38	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		06/02/20 09:38	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		06/02/20 09:38	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		06/02/20 09:38	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		06/02/20 09:38	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		06/02/20 09:38	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		06/02/20 09:38	106-43-4	
Benzene	790	ug/L	5.0	1.2	5		06/02/20 09:38	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		06/02/20 09:38	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		06/02/20 09:38	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		06/02/20 09:38	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		06/02/20 09:38	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		06/02/20 09:38	74-83-9	
Carbon tetrachloride	<5.4	ug/L	17.9	5.4	5		06/02/20 09:38	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		06/02/20 09:38	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		06/02/20 09:38	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		06/02/20 09:38	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		06/02/20 09:38	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		06/02/20 09:38	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		06/02/20 09:38	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		06/02/20 09:38	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		06/02/20 09:38	108-20-3	
Ethylbenzene	133	ug/L	5.3	1.6	5		06/02/20 09:38	100-41-4	
Hexachloro-1,3-butadiene	<7.3	ug/L	24.4	7.3	5		06/02/20 09:38	87-68-3	
Isopropylbenzene (Cumene)	<8.4	ug/L	28.1	8.4	5		06/02/20 09:38	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		06/02/20 09:38	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		06/02/20 09:38	75-09-2	
Naphthalene	6.0J	ug/L	25.0	5.9	5		06/02/20 09:38	91-20-3	
Styrene	<15.0	ug/L	50.2	15.0	5		06/02/20 09:38	100-42-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-4/T68**      **Lab ID: 10519566003**      Collected: 05/27/20 13:39      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		06/02/20 09:38	127-18-4	
Toluene	2.8J	ug/L	4.5	1.3	5		06/02/20 09:38	108-88-3	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		06/02/20 09:38	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		06/02/20 09:38	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		06/02/20 09:38	75-01-4	
cis-1,2-Dichloroethene	<1.4	ug/L	5.0	1.4	5		06/02/20 09:38	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		06/02/20 09:38	10061-01-5	
m&p-Xylene	191	ug/L	10.0	2.3	5		06/02/20 09:38	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		06/02/20 09:38	104-51-8	
n-Propylbenzene	9.1J	ug/L	25.0	4.1	5		06/02/20 09:38	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		06/02/20 09:38	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		06/02/20 09:38	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		06/02/20 09:38	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		06/02/20 09:38	98-06-6	
trans-1,2-Dichloroethene	<2.3	ug/L	7.7	2.3	5		06/02/20 09:38	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		06/02/20 09:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		5		06/02/20 09:38	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		5		06/02/20 09:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		06/02/20 09:38	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-5/T68**      **Lab ID: 10519566004**      Collected: 05/27/20 13:42      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		06/02/20 10:00	630-20-6	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		06/02/20 10:00	71-55-6	
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		06/02/20 10:00	79-34-5	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		06/02/20 10:00	79-00-5	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		06/02/20 10:00	75-34-3	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		06/02/20 10:00	75-35-4	
1,1-Dichloropropene	<135	ug/L	450	135	250		06/02/20 10:00	563-58-6	
1,2,3-Trichlorobenzene	<553	ug/L	1840	553	250		06/02/20 10:00	87-61-6	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		06/02/20 10:00	96-18-4	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		06/02/20 10:00	120-82-1	
1,2,4-Trimethylbenzene	3050	ug/L	700	210	250		06/02/20 10:00	95-63-6	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		06/02/20 10:00	96-12-8	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		06/02/20 10:00	106-93-4	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		06/02/20 10:00	95-50-1	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		06/02/20 10:00	107-06-2	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		06/02/20 10:00	78-87-5	
1,3,5-Trimethylbenzene	841	ug/L	728	218	250		06/02/20 10:00	108-67-8	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		06/02/20 10:00	541-73-1	
1,3-Dichloropropane	<206	ug/L	688	206	250		06/02/20 10:00	142-28-9	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		06/02/20 10:00	106-46-7	
2,2-Dichloropropane	<566	ug/L	1890	566	250		06/02/20 10:00	594-20-7	
2-Chlorotoluene	<232	ug/L	1250	232	250		06/02/20 10:00	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		06/02/20 10:00	106-43-4	
Benzene	21100	ug/L	250	61.6	250		06/02/20 10:00	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		06/02/20 10:00	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		06/02/20 10:00	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		06/02/20 10:00	75-27-4	
Bromoform	<993	ug/L	3310	993	250		06/02/20 10:00	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		06/02/20 10:00	74-83-9	
Carbon tetrachloride	<269	ug/L	897	269	250		06/02/20 10:00	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		06/02/20 10:00	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		06/02/20 10:00	75-00-3	
Chloroform	<318	ug/L	1250	318	250		06/02/20 10:00	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		06/02/20 10:00	74-87-3	
Dibromochloromethane	<650	ug/L	2170	650	250		06/02/20 10:00	124-48-1	
Dibromomethane	<234	ug/L	781	234	250		06/02/20 10:00	74-95-3	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		06/02/20 10:00	75-71-8	
Diisopropyl ether	<472	ug/L	1570	472	250		06/02/20 10:00	108-20-3	
Ethylbenzene	2060	ug/L	266	79.6	250		06/02/20 10:00	100-41-4	
Hexachloro-1,3-butadiene	<366	ug/L	1220	366	250		06/02/20 10:00	87-68-3	
Isopropylbenzene (Cumene)	<422	ug/L	1400	422	250		06/02/20 10:00	98-82-8	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		06/02/20 10:00	1634-04-4	
Methylene Chloride	<145	ug/L	1250	145	250		06/02/20 10:00	75-09-2	
Naphthalene	494J	ug/L	1250	294	250		06/02/20 10:00	91-20-3	
Styrene	<752	ug/L	2510	752	250		06/02/20 10:00	100-42-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-5/T68**      **Lab ID: 10519566004**      Collected: 05/27/20 13:42      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<81.6	ug/L	272	81.6	250		06/02/20 10:00	127-18-4	
Toluene	33700	ug/L	224	67.4	250		06/02/20 10:00	108-88-3	
Trichloroethene	<63.8	ug/L	250	63.8	250		06/02/20 10:00	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		06/02/20 10:00	75-69-4	
Vinyl chloride	<43.7	ug/L	250	43.7	250		06/02/20 10:00	75-01-4	
cis-1,2-Dichloroethene	<67.8	ug/L	250	67.8	250		06/02/20 10:00	156-59-2	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		06/02/20 10:00	10061-01-5	
m&p-Xylene	14900	ug/L	500	116	250		06/02/20 10:00	179601-23-1	
n-Butylbenzene	<177	ug/L	590	177	250		06/02/20 10:00	104-51-8	
n-Propylbenzene	<203	ug/L	1250	203	250		06/02/20 10:00	103-65-1	
o-Xylene	6730	ug/L	250	65.5	250		06/02/20 10:00	95-47-6	
p-Isopropyltoluene	<200	ug/L	667	200	250		06/02/20 10:00	99-87-6	
sec-Butylbenzene	<212	ug/L	1250	212	250		06/02/20 10:00	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		06/02/20 10:00	98-06-6	
trans-1,2-Dichloroethene	<116	ug/L	387	116	250		06/02/20 10:00	156-60-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		06/02/20 10:00	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		250		06/02/20 10:00	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		250		06/02/20 10:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		250		06/02/20 10:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Project No.: 10519566

**Sample: MW-6/T68**      **Lab ID: 10519566005**      Collected: 05/27/20 13:46      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<53.8	ug/L	200	53.8	200		06/02/20 10:21	630-20-6	
1,1,1-Trichloroethane	<49.0	ug/L	200	49.0	200		06/02/20 10:21	71-55-6	
1,1,2,2-Tetrachloroethane	<55.1	ug/L	200	55.1	200		06/02/20 10:21	79-34-5	
1,1,2-Trichloroethane	<110	ug/L	1000	110	200		06/02/20 10:21	79-00-5	
1,1-Dichloroethane	<54.5	ug/L	200	54.5	200		06/02/20 10:21	75-34-3	
1,1-Dichloroethene	<49.0	ug/L	200	49.0	200		06/02/20 10:21	75-35-4	
1,1-Dichloropropene	<108	ug/L	360	108	200		06/02/20 10:21	563-58-6	
1,2,3-Trichlorobenzene	<442	ug/L	1470	442	200		06/02/20 10:21	87-61-6	
1,2,3-Trichloropropane	<118	ug/L	1000	118	200		06/02/20 10:21	96-18-4	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		06/02/20 10:21	120-82-1	
1,2,4-Trimethylbenzene	2470	ug/L	560	168	200		06/02/20 10:21	95-63-6	
1,2-Dibromo-3-chloropropane	<353	ug/L	1180	353	200		06/02/20 10:21	96-12-8	
1,2-Dibromoethane (EDB)	<166	ug/L	553	166	200		06/02/20 10:21	106-93-4	
1,2-Dichlorobenzene	<141	ug/L	470	141	200		06/02/20 10:21	95-50-1	
1,2-Dichloroethane	<56.0	ug/L	200	56.0	200		06/02/20 10:21	107-06-2	
1,2-Dichloropropane	<56.6	ug/L	200	56.6	200		06/02/20 10:21	78-87-5	
1,3,5-Trimethylbenzene	735	ug/L	582	175	200		06/02/20 10:21	108-67-8	
1,3-Dichlorobenzene	<126	ug/L	419	126	200		06/02/20 10:21	541-73-1	
1,3-Dichloropropane	<165	ug/L	551	165	200		06/02/20 10:21	142-28-9	
1,4-Dichlorobenzene	<189	ug/L	629	189	200		06/02/20 10:21	106-46-7	
2,2-Dichloropropane	<453	ug/L	1510	453	200		06/02/20 10:21	594-20-7	
2-Chlorotoluene	<185	ug/L	1000	185	200		06/02/20 10:21	95-49-8	
4-Chlorotoluene	<151	ug/L	504	151	200		06/02/20 10:21	106-43-4	
Benzene	18300	ug/L	200	49.3	200		06/02/20 10:21	71-43-2	
Bromobenzene	<48.2	ug/L	200	48.2	200		06/02/20 10:21	108-86-1	
Bromochloromethane	<72.4	ug/L	1000	72.4	200		06/02/20 10:21	74-97-5	
Bromodichloromethane	<72.7	ug/L	242	72.7	200		06/02/20 10:21	75-27-4	
Bromoform	<794	ug/L	2650	794	200		06/02/20 10:21	75-25-2	
Bromomethane	<194	ug/L	1000	194	200		06/02/20 10:21	74-83-9	
Carbon tetrachloride	<215	ug/L	718	215	200		06/02/20 10:21	56-23-5	
Chlorobenzene	<142	ug/L	474	142	200		06/02/20 10:21	108-90-7	
Chloroethane	<268	ug/L	1000	268	200		06/02/20 10:21	75-00-3	
Chloroform	<255	ug/L	1000	255	200		06/02/20 10:21	67-66-3	
Chloromethane	<438	ug/L	1460	438	200		06/02/20 10:21	74-87-3	
Dibromochloromethane	<520	ug/L	1730	520	200		06/02/20 10:21	124-48-1	
Dibromomethane	<187	ug/L	625	187	200		06/02/20 10:21	74-95-3	
Dichlorodifluoromethane	<99.9	ug/L	1000	99.9	200		06/02/20 10:21	75-71-8	
Diisopropyl ether	<378	ug/L	1260	378	200		06/02/20 10:21	108-20-3	
Ethylbenzene	1410	ug/L	212	63.7	200		06/02/20 10:21	100-41-4	
Hexachloro-1,3-butadiene	<293	ug/L	976	293	200		06/02/20 10:21	87-68-3	
Isopropylbenzene (Cumene)	<337	ug/L	1120	337	200		06/02/20 10:21	98-82-8	
Methyl-tert-butyl ether	<249	ug/L	831	249	200		06/02/20 10:21	1634-04-4	
Methylene Chloride	<116	ug/L	1000	116	200		06/02/20 10:21	75-09-2	
Naphthalene	344J	ug/L	1000	235	200		06/02/20 10:21	91-20-3	
Styrene	<602	ug/L	2010	602	200		06/02/20 10:21	100-42-5	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-6/T68**      **Lab ID: 10519566005**      Collected: 05/27/20 13:46      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<65.3	ug/L	218	65.3	200		06/02/20 10:21	127-18-4	
Toluene	16000	ug/L	180	53.9	200		06/02/20 10:21	108-88-3	
Trichloroethene	<51.0	ug/L	200	51.0	200		06/02/20 10:21	79-01-6	
Trichlorofluoromethane	<43.0	ug/L	200	43.0	200		06/02/20 10:21	75-69-4	
Vinyl chloride	<34.9	ug/L	200	34.9	200		06/02/20 10:21	75-01-4	
cis-1,2-Dichloroethene	<54.2	ug/L	200	54.2	200		06/02/20 10:21	156-59-2	
cis-1,3-Dichloropropene	<726	ug/L	2420	726	200		06/02/20 10:21	10061-01-5	
m&p-Xylene	10400	ug/L	400	93.1	200		06/02/20 10:21	179601-23-1	
n-Butylbenzene	<142	ug/L	472	142	200		06/02/20 10:21	104-51-8	
n-Propylbenzene	<162	ug/L	1000	162	200		06/02/20 10:21	103-65-1	
o-Xylene	5310	ug/L	200	52.4	200		06/02/20 10:21	95-47-6	
p-Isopropyltoluene	<160	ug/L	533	160	200		06/02/20 10:21	99-87-6	
sec-Butylbenzene	<170	ug/L	1000	170	200		06/02/20 10:21	135-98-8	
tert-Butylbenzene	<60.8	ug/L	203	60.8	200		06/02/20 10:21	98-06-6	
trans-1,2-Dichloroethene	<92.8	ug/L	309	92.8	200		06/02/20 10:21	156-60-5	
trans-1,3-Dichloropropene	<874	ug/L	2910	874	200		06/02/20 10:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	86	%	70-130		200		06/02/20 10:21	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		200		06/02/20 10:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		200		06/02/20 10:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-5/T66**      **Lab ID: 10519566006**      Collected: 05/27/20 13:27      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		06/02/20 10:43	630-20-6	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		06/02/20 10:43	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		06/02/20 10:43	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		06/02/20 10:43	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		06/02/20 10:43	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		06/02/20 10:43	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		06/02/20 10:43	563-58-6	
1,2,3-Trichlorobenzene	<221	ug/L	737	221	100		06/02/20 10:43	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		06/02/20 10:43	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		06/02/20 10:43	120-82-1	
1,2,4-Trimethylbenzene	2240	ug/L	280	84.1	100		06/02/20 10:43	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		06/02/20 10:43	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		06/02/20 10:43	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		06/02/20 10:43	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		06/02/20 10:43	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		06/02/20 10:43	78-87-5	
1,3,5-Trimethylbenzene	674	ug/L	291	87.3	100		06/02/20 10:43	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		06/02/20 10:43	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		06/02/20 10:43	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		06/02/20 10:43	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		06/02/20 10:43	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		06/02/20 10:43	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		06/02/20 10:43	106-43-4	
Benzene	4760	ug/L	100	24.6	100		06/02/20 10:43	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		06/02/20 10:43	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		06/02/20 10:43	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		06/02/20 10:43	75-27-4	
Bromoform	<397	ug/L	1320	397	100		06/02/20 10:43	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		06/02/20 10:43	74-83-9	
Carbon tetrachloride	<108	ug/L	359	108	100		06/02/20 10:43	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		06/02/20 10:43	108-90-7	
Chloroethane	<134	ug/L	500	134	100		06/02/20 10:43	75-00-3	
Chloroform	<127	ug/L	500	127	100		06/02/20 10:43	67-66-3	
Chloromethane	<219	ug/L	730	219	100		06/02/20 10:43	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		06/02/20 10:43	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		06/02/20 10:43	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		06/02/20 10:43	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		06/02/20 10:43	108-20-3	
Ethylbenzene	2010	ug/L	106	31.9	100		06/02/20 10:43	100-41-4	
Hexachloro-1,3-butadiene	<146	ug/L	488	146	100		06/02/20 10:43	87-68-3	
Isopropylbenzene (Cumene)	<169	ug/L	562	169	100		06/02/20 10:43	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		06/02/20 10:43	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		06/02/20 10:43	75-09-2	
Naphthalene	326J	ug/L	500	118	100		06/02/20 10:43	91-20-3	
Styrene	<301	ug/L	1000	301	100		06/02/20 10:43	100-42-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: MW-5/T66**      **Lab ID: 10519566006**      Collected: 05/27/20 13:27      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<32.6	ug/L	109	32.6	100		06/02/20 10:43	127-18-4	
Toluene	6000	ug/L	89.8	26.9	100		06/02/20 10:43	108-88-3	
Trichloroethene	<25.5	ug/L	100	25.5	100		06/02/20 10:43	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		06/02/20 10:43	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		06/02/20 10:43	75-01-4	
cis-1,2-Dichloroethene	<27.1	ug/L	100	27.1	100		06/02/20 10:43	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		06/02/20 10:43	10061-01-5	
m&p-Xylene	10100	ug/L	200	46.5	100		06/02/20 10:43	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		06/02/20 10:43	104-51-8	
n-Propylbenzene	165J	ug/L	500	81.1	100		06/02/20 10:43	103-65-1	
o-Xylene	3640	ug/L	100	26.2	100		06/02/20 10:43	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		06/02/20 10:43	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		06/02/20 10:43	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		06/02/20 10:43	98-06-6	
trans-1,2-Dichloroethene	<46.4	ug/L	155	46.4	100		06/02/20 10:43	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		06/02/20 10:43	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		100		06/02/20 10:43	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		100		06/02/20 10:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		06/02/20 10:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: Trip Blank**      **Lab ID: 10519566007**      Collected: 05/27/20 00:00      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/02/20 14:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/02/20 14:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/02/20 14:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/02/20 14:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/02/20 14:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/02/20 14:38	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		06/02/20 14:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/02/20 14:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/02/20 14:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/02/20 14:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/02/20 14:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/02/20 14:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/02/20 14:38	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/02/20 14:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/02/20 14:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/02/20 14:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/02/20 14:38	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/02/20 14:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/02/20 14:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/02/20 14:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/02/20 14:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/02/20 14:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/02/20 14:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/02/20 14:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/02/20 14:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/02/20 14:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/02/20 14:38	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		06/02/20 14:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/02/20 14:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/02/20 14:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/02/20 14:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/02/20 14:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/02/20 14:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/02/20 14:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/02/20 14:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/02/20 14:38	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		06/02/20 14:38	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		06/02/20 14:38	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		06/02/20 14:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/02/20 14:38	1634-04-4	
Methylene Chloride	0.90J	ug/L	5.0	0.58	1		06/02/20 14:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/02/20 14:38	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		06/02/20 14:38	100-42-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

**Sample: Trip Blank**      **Lab ID: 10519566007**      Collected: 05/27/20 00:00      Received: 05/28/20 18:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<b>0.45J</b>	ug/L	1.1	0.33	1		06/02/20 14:38	127-18-4	
Toluene	<b>&lt;0.27</b>	ug/L	0.90	0.27	1		06/02/20 14:38	108-88-3	
Trichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		06/02/20 14:38	79-01-6	
Trichlorofluoromethane	<b>&lt;0.21</b>	ug/L	1.0	0.21	1		06/02/20 14:38	75-69-4	
Vinyl chloride	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		06/02/20 14:38	75-01-4	
cis-1,2-Dichloroethene	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/02/20 14:38	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;3.6</b>	ug/L	12.1	3.6	1		06/02/20 14:38	10061-01-5	
m&p-Xylene	<b>&lt;0.47</b>	ug/L	2.0	0.47	1		06/02/20 14:38	179601-23-1	
n-Butylbenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/02/20 14:38	104-51-8	
n-Propylbenzene	<b>&lt;0.81</b>	ug/L	5.0	0.81	1		06/02/20 14:38	103-65-1	
o-Xylene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		06/02/20 14:38	95-47-6	
p-Isopropyltoluene	<b>&lt;0.80</b>	ug/L	2.7	0.80	1		06/02/20 14:38	99-87-6	
sec-Butylbenzene	<b>&lt;0.85</b>	ug/L	5.0	0.85	1		06/02/20 14:38	135-98-8	
tert-Butylbenzene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		06/02/20 14:38	98-06-6	
trans-1,2-Dichloroethene	<b>&lt;0.46</b>	ug/L	1.5	0.46	1		06/02/20 14:38	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;4.4</b>	ug/L	14.6	4.4	1		06/02/20 14:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	82	%	70-130		1		06/02/20 14:38	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		06/02/20 14:38	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/02/20 14:38	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

QC Batch: 356353

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10519566001, 10519566002, 10519566003, 10519566004, 10519566005, 10519566006, 10519566007

METHOD BLANK: 2061032

Matrix: Water

Associated Lab Samples: 10519566001, 10519566002, 10519566003, 10519566004, 10519566005, 10519566006, 10519566007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/02/20 06:47	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/02/20 06:47	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/02/20 06:47	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/02/20 06:47	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/02/20 06:47	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/02/20 06:47	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/02/20 06:47	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	06/02/20 06:47	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/02/20 06:47	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/02/20 06:47	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/02/20 06:47	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/02/20 06:47	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/02/20 06:47	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/02/20 06:47	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/02/20 06:47	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/02/20 06:47	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/02/20 06:47	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/02/20 06:47	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/02/20 06:47	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/02/20 06:47	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/02/20 06:47	
2-Chlorotoluene	ug/L	<0.93	5.0	06/02/20 06:47	
4-Chlorotoluene	ug/L	<0.76	2.5	06/02/20 06:47	
Benzene	ug/L	<0.25	1.0	06/02/20 06:47	
Bromobenzene	ug/L	<0.24	1.0	06/02/20 06:47	
Bromochloromethane	ug/L	<0.36	5.0	06/02/20 06:47	
Bromodichloromethane	ug/L	<0.36	1.2	06/02/20 06:47	
Bromoform	ug/L	<4.0	13.2	06/02/20 06:47	
Bromomethane	ug/L	<0.97	5.0	06/02/20 06:47	
Carbon tetrachloride	ug/L	<1.1	3.6	06/02/20 06:47	
Chlorobenzene	ug/L	<0.71	2.4	06/02/20 06:47	
Chloroethane	ug/L	<1.3	5.0	06/02/20 06:47	
Chloroform	ug/L	<1.3	5.0	06/02/20 06:47	
Chloromethane	ug/L	<2.2	7.3	06/02/20 06:47	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/02/20 06:47	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/02/20 06:47	
Dibromochloromethane	ug/L	<2.6	8.7	06/02/20 06:47	
Dibromomethane	ug/L	<0.94	3.1	06/02/20 06:47	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/02/20 06:47	
Diisopropyl ether	ug/L	<1.9	6.3	06/02/20 06:47	

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

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### QUALITY CONTROL DATA

Project: 49161494.00 200 202 SRC GW 68  
Pace Project No.: 10519566

METHOD BLANK: 2061032 Matrix: Water  
Associated Lab Samples: 10519566001, 10519566002, 10519566003, 10519566004, 10519566005, 10519566006, 10519566007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	06/02/20 06:47	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	06/02/20 06:47	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	06/02/20 06:47	
m&p-Xylene	ug/L	<0.47	2.0	06/02/20 06:47	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/02/20 06:47	
Methylene Chloride	ug/L	<0.58	5.0	06/02/20 06:47	
n-Butylbenzene	ug/L	<0.71	2.4	06/02/20 06:47	
n-Propylbenzene	ug/L	<0.81	5.0	06/02/20 06:47	
Naphthalene	ug/L	<1.2	5.0	06/02/20 06:47	
o-Xylene	ug/L	<0.26	1.0	06/02/20 06:47	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/02/20 06:47	
sec-Butylbenzene	ug/L	<0.85	5.0	06/02/20 06:47	
Styrene	ug/L	<3.0	10.0	06/02/20 06:47	
tert-Butylbenzene	ug/L	<0.30	1.0	06/02/20 06:47	
Tetrachloroethene	ug/L	<0.33	1.1	06/02/20 06:47	
Toluene	ug/L	<0.27	0.90	06/02/20 06:47	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	06/02/20 06:47	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/02/20 06:47	
Trichloroethene	ug/L	<0.26	1.0	06/02/20 06:47	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/02/20 06:47	
Vinyl chloride	ug/L	<0.17	1.0	06/02/20 06:47	
4-Bromofluorobenzene (S)	%	85	70-130	06/02/20 06:47	
Dibromofluoromethane (S)	%	92	70-130	06/02/20 06:47	
Toluene-d8 (S)	%	99	70-130	06/02/20 06:47	

LABORATORY CONTROL SAMPLE: 2061033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	41.7	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	64-131	
1,1,2-Trichloroethane	ug/L	50	44.2	88	70-130	
1,1-Dichloroethane	ug/L	50	60.4	121	69-163	
1,1-Dichloroethene	ug/L	50	50.6	101	77-123	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.4	81	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.6	93	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	44.4	89	78-142	
1,2-Dichloropropane	ug/L	50	43.0	86	86-134	
1,3-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,4-Dichlorobenzene	ug/L	50	44.6	89	70-130	
Benzene	ug/L	50	46.0	92	70-130	
Bromodichloromethane	ug/L	50	44.0	88	70-130	
Bromoform	ug/L	50	44.0	88	70-130	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

LABORATORY CONTROL SAMPLE: 2061033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	33.2	66	39-129	
Carbon tetrachloride	ug/L	50	41.0	82	70-132	
Chlorobenzene	ug/L	50	47.4	95	70-130	
Chloroethane	ug/L	50	47.8	96	66-140	
Chloroform	ug/L	50	41.1	82	75-132	
Chloromethane	ug/L	50	33.2	66	32-143	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	70-130	
cis-1,3-Dichloropropene	ug/L	50	42.7	85	70-130	
Dibromochloromethane	ug/L	50	43.3	87	70-130	
Dichlorodifluoromethane	ug/L	50	25.1	50	10-141	
Ethylbenzene	ug/L	50	49.3	99	80-120	
Isopropylbenzene (Cumene)	ug/L	50	49.7	99	70-130	
m&p-Xylene	ug/L	100	99.0	99	70-130	
Methyl-tert-butyl ether	ug/L	50	54.7	109	61-129	
Methylene Chloride	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	49.5	99	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	46.5	93	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	38.8	78	69-130	
Trichloroethene	ug/L	50	44.1	88	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	75-145	
Vinyl chloride	ug/L	50	41.5	83	51-140	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			96	70-130	

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## QUALIFIERS

Project: 49161494.00 200 202 SRC GW 68

Pace Project No.: 10519566

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 49161494.00 200 202 SRC GW 68  
Pace Project No.: 10519566

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10519566001	MW-1/T68	EPA 8260	356353		
10519566002	MW-2/T68	EPA 8260	356353		
10519566003	MW-4/T68	EPA 8260	356353		
10519566004	MW-5/T68	EPA 8260	356353		
10519566005	MW-6/T68	EPA 8260	356353		
10519566006	MW-5/T66	EPA 8260	356353		
10519566007	Trip Blank	EPA 8260	356353		

**REPORT OF LABORATORY ANALYSIS**

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# Barr Engineering Co. Chain of Custody

Sample Origination State:

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

- KS    MO    UT  
 MI    ND    WI  
 MN    SD   Other: \_\_\_\_\_

40208582

COC Number: **58464**  
COC 1 of 1

**Matrix Code:**      **Preservative Code:**  
 GW = Groundwater      A = None  
 SW = Surface Water      B = HCl  
 WW = Waste Water      C = HNO<sub>3</sub>  
 DW = Drinking Water      D = H<sub>2</sub>SO<sub>4</sub>  
 S = Soil/Solid      E = NaOH  
 SD = Sediment      F = MeOH  
 O = Other      G = NaHSO<sub>4</sub>  
                          H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
                          I = Ascorbic Acid  
                          J = NH<sub>4</sub>Cl  
                          K = Zn Acetate  
                          O = Other

**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 Tank 68

**INVOICE TO**

Company: Barr  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 email: \_\_\_\_\_  
 P.O. -  
 Barr Project No: 4916149,00 200 202

Location	Sample Depth			Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform	MS/MSD	Y / N	Total Number Of Containers	Analysis Requested		% Solids	Preservative Code	Field Filtered Y/N
	Start	Stop	Unit (m./ft. or in.)								Water	Soil			
1. <u>MW-1/T68</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>05/27/2020</u>	<u>1320</u>	<u>GW</u>	<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>001</u>		
2. <u>MW-2/T68</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>		<u>1335</u>		<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>002</u>		
3. <u>MW-4/T68</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>		<u>1339</u>		<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>003</u>		
4. <u>MW-5/T68</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>		<u>1342</u>		<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>004</u>		
5. <u>MW-6/T68</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>		<u>1346</u>		<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>005</u>		
6. <u>MW-5/T66</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>		<u>1327</u>	<u>↓</u>	<u>N</u>	<u>3</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>006</u>		
7. <u>Trip Blank</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>↓</u>	<u>—</u>	<u>—</u>	<u>N</u>	<u>2</u>	<u>X</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>007</u>		
8.															
9.															
10.															

**BARR USE ONLY**

Sampled by: UMTJ  
 Barr Proj. Manager: LMC  
 Barr DQ Manager: JET  
 Lab Name: PAU  
 Lab Location: PAU minneapolis

Relinquished by: [Signature]      On Ice?  Y  N      Date 5/28/20      Time 10:45  
 Relinquished by: Silacide/Pace      On Ice?  Y  N      Date 5/28/20      Time 10:50  
 Samples Shipped VIA:    Courier    Federal Express    Sampler      Air Bill Number: \_\_\_\_\_  
 Requested Due Date:    Standard Turn Around Time       Rush \_\_\_\_\_  
 Lab WO: \_\_\_\_\_      Temperature on Receipt (°C): RCR      Custody Seal Intact?  Y  N  None

HIGS PARR ENGINEERING CO. Chain of Custody Form 2015 RIG Rev. 01/02/18

### Sample Preservation Receipt Form

Client Name: Pace Minneapolis

Project # 40208582

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

Lab Lot# of pH paper:

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

Initial when completed:


Date/Time:

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

Milk  
5-30-20

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


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

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

### Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace Minneapolis Project #: \_\_\_\_\_  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  **Waltco**  
 Client  Pace Other: \_\_\_\_\_  
 Tracking #: 2451434-6

WO#: 40208582



40208582

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-86 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun  
 Cooler Temperature Uncorr: 0°C / Corr: 1°C  
 Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 5-30-20 Initials: MLR  
 Labeled By Initials: SMW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>MLR 5-30-20</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <del>MLR 5-30-20</del> <u>MLR 5</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>IRLNO</u> <u>MLR 5-30-20</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>007 orange label ID Trip Blank Standard</u> <u>MLR 5-30-20</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased) <u>048620-3CTR</u>		<u>not Pace's</u> <u>MLR 5-30-20</u>

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

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



October 22, 2020

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

RE: Project: 49161494.00 200 203 SRC GW T68  
Pace Project No.: 10534504

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,



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

Enclosures

cc: BarrDM, Barr Engineering Company  
Data Management, Barr Engineering  
Accounts Payable, Barr Engineering



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

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### **Pace Analytical Services - 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+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

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137\*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 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 #: CL101

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 (\*).

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10534504001	MW-1 / T68	Water	10/06/20 08:40	10/06/20 19:30
10534504002	MW-4 / T68	Water	10/06/20 08:45	10/06/20 19:30
10534504003	MW-2 / T68	Water	10/06/20 08:50	10/06/20 19:30
10534504004	MW-5 / T68	Water	10/06/20 08:55	10/06/20 19:30
10534504005	MW-5 / T66	Water	10/06/20 09:00	10/06/20 19:30
10534504006	MW-6 / T68	Water	10/06/20 09:05	10/06/20 19:30
10534504007	Trip Blank	Water	10/06/20 00:00	10/06/20 19:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10534504001	MW-1 / T68	EPA 8260B	MM3	70	PASI-M
10534504002	MW-4 / T68	EPA 8260B	LT1, MM3	70	PASI-M
10534504003	MW-2 / T68	EPA 8260B	MM3	70	PASI-M
10534504004	MW-5 / T68	EPA 8260B	MM3	70	PASI-M
10534504005	MW-5 / T66	EPA 8260B	MM3	70	PASI-M
10534504006	MW-6 / T68	EPA 8260B	MM3	70	PASI-M
10534504007	Trip Blank	EPA 8260B	MM3	70	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

---

**Date:** October 22, 2020

Case Narrative:

Volatile Organic Analysis

8260B

Regarding a qualifier that appears later in this report:

CH:

Recovery for bromomethane in the continuing calibration verification was outside of laboratory control limits at 161% (limits 60-140%). Reported values may be biased high.

Recovery for dichlorofluoromethane in the continuing calibration verification was outside of laboratory control limits at 142% (limits 60-140%). Reported values may be biased high.

SS:

Recovery for bromomethane in the secondary source was outside of laboratory control limits at 194% (limits 50-150%). Reported values may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-1 / T68**      **Lab ID: 10534504001**      Collected: 10/06/20 08:40      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		10/08/20 22:13	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		10/08/20 22:13	107-05-1	
Benzene	<0.12	ug/L	0.40	0.12	1		10/08/20 22:13	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		10/08/20 22:13	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		10/08/20 22:13	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		10/08/20 22:13	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		10/08/20 22:13	75-25-2	
Bromomethane	<0.63	ug/L	2.1	0.63	1		10/08/20 22:13	74-83-9	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		10/08/20 22:13	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		10/08/20 22:13	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		10/08/20 22:13	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		10/08/20 22:13	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		10/08/20 22:13	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		10/08/20 22:13	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		10/08/20 22:13	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		10/08/20 22:13	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		10/08/20 22:13	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		10/08/20 22:13	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		10/08/20 22:13	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		10/08/20 22:13	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		10/08/20 22:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		10/08/20 22:13	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		10/08/20 22:13	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		10/08/20 22:13	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		10/08/20 22:13	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		10/08/20 22:13	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		10/08/20 22:13	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		10/08/20 22:13	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		10/08/20 22:13	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		10/08/20 22:13	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		10/08/20 22:13	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		10/08/20 22:13	156-60-5	
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		10/08/20 22:13	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		10/08/20 22:13	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		10/08/20 22:13	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		10/08/20 22:13	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		10/08/20 22:13	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		10/08/20 22:13	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		10/08/20 22:13	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		10/08/20 22:13	60-29-7	
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		10/08/20 22:13	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		10/08/20 22:13	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		10/08/20 22:13	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		10/08/20 22:13	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		10/08/20 22:13	75-09-2	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-1 / T68**      **Lab ID: 10534504001**      Collected: 10/06/20 08:40      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		10/08/20 22:13	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		10/08/20 22:13	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		10/08/20 22:13	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		10/08/20 22:13	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		10/08/20 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		10/08/20 22:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		10/08/20 22:13	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		10/08/20 22:13	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		10/08/20 22:13	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		10/08/20 22:13	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		10/08/20 22:13	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		10/08/20 22:13	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		10/08/20 22:13	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		10/08/20 22:13	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		10/08/20 22:13	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		10/08/20 22:13	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		10/08/20 22:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		10/08/20 22:13	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		10/08/20 22:13	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		10/08/20 22:13	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		10/08/20 22:13	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		10/08/20 22:13	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		10/08/20 22:13	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1		10/08/20 22:13	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1		10/08/20 22:13	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-4 / T68**      **Lab ID: 10534504002**      Collected: 10/06/20 08:45      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		10/08/20 22:31	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		10/08/20 22:31	107-05-1	
Benzene	2950	ug/L	20.0	6.0	50		10/13/20 18:40	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		10/08/20 22:31	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		10/08/20 22:31	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		10/08/20 22:31	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		10/08/20 22:31	75-25-2	
Bromomethane	<0.63	ug/L	2.1	0.63	1		10/08/20 22:31	74-83-9	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		10/08/20 22:31	78-93-3	
n-Butylbenzene	7.0	ug/L	0.52	0.16	1		10/08/20 22:31	104-51-8	
sec-Butylbenzene	5.4	ug/L	0.49	0.15	1		10/08/20 22:31	135-98-8	
tert-Butylbenzene	0.35J	ug/L	0.43	0.13	1		10/08/20 22:31	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		10/08/20 22:31	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		10/08/20 22:31	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		10/08/20 22:31	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		10/08/20 22:31	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		10/08/20 22:31	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		10/08/20 22:31	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		10/08/20 22:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		10/08/20 22:31	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		10/08/20 22:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		10/08/20 22:31	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		10/08/20 22:31	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		10/08/20 22:31	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		10/08/20 22:31	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		10/08/20 22:31	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		10/08/20 22:31	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		10/08/20 22:31	75-34-3	
1,2-Dichloroethane	0.96	ug/L	0.85	0.25	1		10/08/20 22:31	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		10/08/20 22:31	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		10/08/20 22:31	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		10/08/20 22:31	156-60-5	
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		10/08/20 22:31	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		10/08/20 22:31	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		10/08/20 22:31	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		10/08/20 22:31	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		10/08/20 22:31	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		10/08/20 22:31	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		10/08/20 22:31	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		10/08/20 22:31	60-29-7	
Ethylbenzene	499	ug/L	12.4	3.7	50		10/13/20 18:40	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		10/08/20 22:31	87-68-3	
Isopropylbenzene (Cumene)	28.9	ug/L	0.44	0.13	1		10/08/20 22:31	98-82-8	
p-Isopropyltoluene	11.8	ug/L	0.59	0.18	1		10/08/20 22:31	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		10/08/20 22:31	75-09-2	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-4 / T68**      **Lab ID: 10534504002**      Collected: 10/06/20 08:45      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		10/08/20 22:31	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		10/08/20 22:31	1634-04-4	
Naphthalene	8.9	ug/L	2.3	0.68	1		10/08/20 22:31	91-20-3	
n-Propylbenzene	57.2	ug/L	0.61	0.18	1		10/08/20 22:31	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		10/08/20 22:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		10/08/20 22:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		10/08/20 22:31	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		10/08/20 22:31	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		10/08/20 22:31	109-99-9	
Toluene	5.0	ug/L	0.41	0.12	1		10/08/20 22:31	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		10/08/20 22:31	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		10/08/20 22:31	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		10/08/20 22:31	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		10/08/20 22:31	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		10/08/20 22:31	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		10/08/20 22:31	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		10/08/20 22:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		10/08/20 22:31	76-13-1	
1,2,4-Trimethylbenzene	904	ug/L	28.6	8.6	50		10/13/20 18:40	95-63-6	
1,3,5-Trimethylbenzene	123	ug/L	0.41	0.12	1		10/08/20 22:31	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		10/08/20 22:31	75-01-4	
Xylene (Total)	636	ug/L	0.96	0.29	1		10/08/20 22:31	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		10/08/20 22:31	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1		10/08/20 22:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		10/08/20 22:31	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-2 / T68**      **Lab ID: 10534504003**      Collected: 10/06/20 08:50      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<126	ug/L	420	126	50		10/20/20 15:45	67-64-1	
Allyl chloride	<13.6	ug/L	45.1	13.6	50		10/20/20 15:45	107-05-1	
Benzene	18600	ug/L	40.0	12.0	100		10/20/20 13:46	71-43-2	
Bromobenzene	<6.6	ug/L	22.1	6.6	50		10/20/20 15:45	108-86-1	
Bromochloromethane	<17.9	ug/L	59.6	17.9	50		10/20/20 15:45	74-97-5	
Bromodichloromethane	<5.7	ug/L	19.0	5.7	50		10/20/20 15:45	75-27-4	
Bromoform	<13.5	ug/L	45.0	13.5	50		10/20/20 15:45	75-25-2	
Bromomethane	<31.7	ug/L	106	31.7	50		10/20/20 15:45	74-83-9	
2-Butanone (MEK)	<44.2	ug/L	147	44.2	50		10/20/20 15:45	78-93-3	
n-Butylbenzene	8.6J	ug/L	26.0	7.8	50		10/20/20 15:45	104-51-8	
sec-Butylbenzene	<7.3	ug/L	24.3	7.3	50		10/20/20 15:45	135-98-8	
tert-Butylbenzene	<6.4	ug/L	21.5	6.4	50		10/20/20 15:45	98-06-6	
Carbon tetrachloride	<8.4	ug/L	28.0	8.4	50		10/20/20 15:45	56-23-5	
Chlorobenzene	<3.8	ug/L	12.6	3.8	50		10/20/20 15:45	108-90-7	
Chloroethane	<21.2	ug/L	70.6	21.2	50		10/20/20 15:45	75-00-3	
Chloroform	<24.2	ug/L	80.6	24.2	50		10/20/20 15:45	67-66-3	
Chloromethane	<7.3	ug/L	24.3	7.3	50		10/20/20 15:45	74-87-3	
2-Chlorotoluene	<8.2	ug/L	27.5	8.2	50		10/20/20 15:45	95-49-8	
4-Chlorotoluene	<2.5	ug/L	8.4	2.5	50		10/20/20 15:45	106-43-4	
1,2-Dibromo-3-chloropropane	<62.5	ug/L	208	62.5	50		10/20/20 15:45	96-12-8	
Dibromochloromethane	<9.8	ug/L	32.8	9.8	50		10/20/20 15:45	124-48-1	
1,2-Dibromoethane (EDB)	<9.0	ug/L	30.1	9.0	50		10/20/20 15:45	106-93-4	
Dibromomethane	<7.6	ug/L	25.5	7.6	50		10/20/20 15:45	74-95-3	
1,2-Dichlorobenzene	<6.8	ug/L	22.6	6.8	50		10/20/20 15:45	95-50-1	
1,3-Dichlorobenzene	<5.8	ug/L	19.5	5.8	50		10/20/20 15:45	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/L	13.6	4.1	50		10/20/20 15:45	106-46-7	
Dichlorodifluoromethane	<9.8	ug/L	32.5	9.8	50		10/20/20 15:45	75-71-8	
1,1-Dichloroethane	<8.3	ug/L	27.6	8.3	50		10/20/20 15:45	75-34-3	
1,2-Dichloroethane	1070	ug/L	42.3	12.7	50		10/20/20 15:45	107-06-2	
1,1-Dichloroethene	<6.3	ug/L	21.0	6.3	50		10/20/20 15:45	75-35-4	
cis-1,2-Dichloroethene	<9.8	ug/L	32.8	9.8	50		10/20/20 15:45	156-59-2	
trans-1,2-Dichloroethene	<9.6	ug/L	31.8	9.6	50		10/20/20 15:45	156-60-5	
Dichlorofluoromethane	<9.5	ug/L	31.6	9.5	50		10/20/20 15:45	75-43-4	
1,2-Dichloropropane	<7.0	ug/L	23.1	7.0	50		10/20/20 15:45	78-87-5	
1,3-Dichloropropane	<6.4	ug/L	21.3	6.4	50		10/20/20 15:45	142-28-9	
2,2-Dichloropropane	<9.9	ug/L	33.0	9.9	50		10/20/20 15:45	594-20-7	
1,1-Dichloropropene	<11.0	ug/L	36.8	11.0	50		10/20/20 15:45	563-58-6	
cis-1,3-Dichloropropene	<3.8	ug/L	12.8	3.8	50		10/20/20 15:45	10061-01-5	
trans-1,3-Dichloropropene	<15.8	ug/L	52.4	15.8	50		10/20/20 15:45	10061-02-6	
Diethyl ether (Ethyl ether)	<8.8	ug/L	29.1	8.8	50		10/20/20 15:45	60-29-7	
Ethylbenzene	1250	ug/L	12.4	3.7	50		10/20/20 15:45	100-41-4	
Hexachloro-1,3-butadiene	<20.0	ug/L	66.6	20.0	50		10/20/20 15:45	87-68-3	
Isopropylbenzene (Cumene)	34.1	ug/L	21.8	6.6	50		10/20/20 15:45	98-82-8	
p-Isopropyltoluene	9.1J	ug/L	29.3	8.8	50		10/20/20 15:45	99-87-6	
Methylene Chloride	<55.0	ug/L	183	55.0	50		10/20/20 15:45	75-09-2	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-2 / T68**      **Lab ID: 10534504003**      Collected: 10/06/20 08:50      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<b>76.2J</b>	ug/L	90.7	27.2	50		10/20/20 15:45	108-10-1	
Methyl-tert-butyl ether	<b>&lt;5.8</b>	ug/L	19.3	5.8	50		10/20/20 15:45	1634-04-4	
Naphthalene	<b>333</b>	ug/L	113	34.0	50		10/20/20 15:45	91-20-3	
n-Propylbenzene	<b>83.2</b>	ug/L	30.3	9.1	50		10/20/20 15:45	103-65-1	
Styrene	<b>&lt;5.5</b>	ug/L	18.3	5.5	50		10/20/20 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	<b>&lt;6.6</b>	ug/L	21.8	6.6	50		10/20/20 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	<b>&lt;8.0</b>	ug/L	26.5	8.0	50		10/20/20 15:45	79-34-5	
Tetrachloroethene	<b>&lt;8.7</b>	ug/L	29.0	8.7	50		10/20/20 15:45	127-18-4	
Tetrahydrofuran	<b>&lt;169</b>	ug/L	563	169	50		10/20/20 15:45	109-99-9	
Toluene	<b>15000</b>	ug/L	40.6	12.2	100		10/20/20 13:46	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;8.5</b>	ug/L	28.3	8.5	50		10/20/20 15:45	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;9.5</b>	ug/L	31.6	9.5	50		10/20/20 15:45	120-82-1	
1,1,1-Trichloroethane	<b>&lt;8.5</b>	ug/L	28.3	8.5	50		10/20/20 15:45	71-55-6	
1,1,2-Trichloroethane	<b>&lt;9.6</b>	ug/L	31.8	9.6	50		10/20/20 15:45	79-00-5	
Trichloroethene	<b>&lt;7.4</b>	ug/L	24.8	7.4	50		10/20/20 15:45	79-01-6	
Trichlorofluoromethane	<b>&lt;6.2</b>	ug/L	20.6	6.2	50		10/20/20 15:45	75-69-4	
1,2,3-Trichloropropane	<b>&lt;29.4</b>	ug/L	98.1	29.4	50		10/20/20 15:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;15.2</b>	ug/L	50.4	15.2	50		10/20/20 15:45	76-13-1	
1,2,4-Trimethylbenzene	<b>2720</b>	ug/L	28.6	8.6	50		10/20/20 15:45	95-63-6	
1,3,5-Trimethylbenzene	<b>805</b>	ug/L	20.6	6.2	50		10/20/20 15:45	108-67-8	
Vinyl chloride	<b>&lt;4.9</b>	ug/L	16.4	4.9	50		10/20/20 15:45	75-01-4	
Xylene (Total)	<b>16300</b>	ug/L	47.8	14.4	50		10/20/20 15:45	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-125		50		10/20/20 15:45	17060-07-0	
Toluene-d8 (S)	97	%	75-125		50		10/20/20 15:45	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		50		10/20/20 15:45	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-5 / T68**      **Lab ID: 10534504004**      Collected: 10/06/20 08:55      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<252	ug/L	839	252	100		10/20/20 14:03	67-64-1	
Allyl chloride	<27.1	ug/L	90.2	27.1	100		10/20/20 14:03	107-05-1	
Benzene	24300	ug/L	40.0	12.0	100		10/20/20 14:03	71-43-2	
Bromobenzene	<13.3	ug/L	44.3	13.3	100		10/20/20 14:03	108-86-1	
Bromochloromethane	<35.8	ug/L	119	35.8	100		10/20/20 14:03	74-97-5	
Bromodichloromethane	<11.4	ug/L	38.0	11.4	100		10/20/20 14:03	75-27-4	
Bromoform	<27.0	ug/L	89.9	27.0	100		10/20/20 14:03	75-25-2	
Bromomethane	<63.4	ug/L	211	63.4	100		10/20/20 14:03	74-83-9	
2-Butanone (MEK)	<88.3	ug/L	294	88.3	100		10/20/20 14:03	78-93-3	
n-Butylbenzene	573	ug/L	51.9	15.6	100		10/20/20 14:03	104-51-8	
sec-Butylbenzene	253	ug/L	48.6	14.6	100		10/20/20 14:03	135-98-8	
tert-Butylbenzene	<12.9	ug/L	43.0	12.9	100		10/20/20 14:03	98-06-6	
Carbon tetrachloride	<16.8	ug/L	55.9	16.8	100		10/20/20 14:03	56-23-5	
Chlorobenzene	<7.6	ug/L	25.3	7.6	100		10/20/20 14:03	108-90-7	
Chloroethane	<42.4	ug/L	141	42.4	100		10/20/20 14:03	75-00-3	
Chloroform	<48.4	ug/L	161	48.4	100		10/20/20 14:03	67-66-3	
Chloromethane	<14.6	ug/L	48.6	14.6	100		10/20/20 14:03	74-87-3	
2-Chlorotoluene	<16.5	ug/L	54.9	16.5	100		10/20/20 14:03	95-49-8	
4-Chlorotoluene	<5.0	ug/L	16.8	5.0	100		10/20/20 14:03	106-43-4	
1,2-Dibromo-3-chloropropane	<125	ug/L	416	125	100		10/20/20 14:03	96-12-8	
Dibromochloromethane	<19.7	ug/L	65.6	19.7	100		10/20/20 14:03	124-48-1	
1,2-Dibromoethane (EDB)	<18.1	ug/L	60.3	18.1	100		10/20/20 14:03	106-93-4	
Dibromomethane	<15.3	ug/L	50.9	15.3	100		10/20/20 14:03	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/L	45.3	13.6	100		10/20/20 14:03	95-50-1	
1,3-Dichlorobenzene	<11.7	ug/L	39.0	11.7	100		10/20/20 14:03	541-73-1	
1,4-Dichlorobenzene	<8.2	ug/L	27.2	8.2	100		10/20/20 14:03	106-46-7	
Dichlorodifluoromethane	<19.5	ug/L	64.9	19.5	100		10/20/20 14:03	75-71-8	
1,1-Dichloroethane	<16.6	ug/L	55.3	16.6	100		10/20/20 14:03	75-34-3	
1,2-Dichloroethane	88.7	ug/L	84.6	25.4	100		10/20/20 14:03	107-06-2	
1,1-Dichloroethene	<12.6	ug/L	42.0	12.6	100		10/20/20 14:03	75-35-4	
cis-1,2-Dichloroethene	<19.7	ug/L	65.6	19.7	100		10/20/20 14:03	156-59-2	
trans-1,2-Dichloroethene	<19.1	ug/L	63.6	19.1	100		10/20/20 14:03	156-60-5	
Dichlorofluoromethane	<19.0	ug/L	63.3	19.0	100		10/20/20 14:03	75-43-4	
1,2-Dichloropropane	<13.9	ug/L	46.3	13.9	100		10/20/20 14:03	78-87-5	
1,3-Dichloropropane	<12.8	ug/L	42.6	12.8	100		10/20/20 14:03	142-28-9	
2,2-Dichloropropane	<19.8	ug/L	65.9	19.8	100		10/20/20 14:03	594-20-7	
1,1-Dichloropropene	<22.1	ug/L	73.6	22.1	100		10/20/20 14:03	563-58-6	
cis-1,3-Dichloropropene	<7.7	ug/L	25.6	7.7	100		10/20/20 14:03	10061-01-5	
trans-1,3-Dichloropropene	<31.5	ug/L	105	31.5	100		10/20/20 14:03	10061-02-6	
Diethyl ether (Ethyl ether)	<17.5	ug/L	58.3	17.5	100		10/20/20 14:03	60-29-7	
Ethylbenzene	8670	ug/L	24.9	7.5	100		10/20/20 14:03	100-41-4	
Hexachloro-1,3-butadiene	<40.0	ug/L	133	40.0	100		10/20/20 14:03	87-68-3	
Isopropylbenzene (Cumene)	569	ug/L	43.6	13.1	100		10/20/20 14:03	98-82-8	
p-Isopropyltoluene	117	ug/L	58.6	17.6	100		10/20/20 14:03	99-87-6	
Methylene Chloride	<110	ug/L	366	110	100		10/20/20 14:03	75-09-2	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-5 / T68**      **Lab ID: 10534504004**      Collected: 10/06/20 08:55      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	250	ug/L	181	54.5	100		10/20/20 14:03	108-10-1	
Methyl-tert-butyl ether	<11.6	ug/L	38.6	11.6	100		10/20/20 14:03	1634-04-4	
Naphthalene	5690	ug/L	226	68.0	100		10/20/20 14:03	91-20-3	
n-Propylbenzene	2080	ug/L	60.6	18.2	100		10/20/20 14:03	103-65-1	
Styrene	34.4J	ug/L	36.6	11.0	100		10/20/20 14:03	100-42-5	
1,1,1,2-Tetrachloroethane	<13.1	ug/L	43.6	13.1	100		10/20/20 14:03	630-20-6	
1,1,2,2-Tetrachloroethane	<15.9	ug/L	52.9	15.9	100		10/20/20 14:03	79-34-5	
Tetrachloroethene	<17.4	ug/L	57.9	17.4	100		10/20/20 14:03	127-18-4	
Tetrahydrofuran	<338	ug/L	1130	338	100		10/20/20 14:03	109-99-9	
Toluene	33700	ug/L	203	61.0	500		10/20/20 17:45	108-88-3	
1,2,3-Trichlorobenzene	<17.0	ug/L	56.6	17.0	100		10/20/20 14:03	87-61-6	
1,2,4-Trichlorobenzene	<19.0	ug/L	63.3	19.0	100		10/20/20 14:03	120-82-1	
1,1,1-Trichloroethane	<17.0	ug/L	56.6	17.0	100		10/20/20 14:03	71-55-6	
1,1,2-Trichloroethane	<19.1	ug/L	63.6	19.1	100		10/20/20 14:03	79-00-5	
Trichloroethene	<14.9	ug/L	49.6	14.9	100		10/20/20 14:03	79-01-6	
Trichlorofluoromethane	<12.4	ug/L	41.3	12.4	100		10/20/20 14:03	75-69-4	
1,2,3-Trichloropropane	<58.9	ug/L	196	58.9	100		10/20/20 14:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<30.3	ug/L	101	30.3	100		10/20/20 14:03	76-13-1	
1,2,4-Trimethylbenzene	56400	ug/L	143	43.0	250		10/20/20 16:19	95-63-6	
1,3,5-Trimethylbenzene	8680	ug/L	41.3	12.4	100		10/20/20 14:03	108-67-8	
Vinyl chloride	<9.9	ug/L	32.9	9.9	100		10/20/20 14:03	75-01-4	
Xylene (Total)	162000	ug/L	239	71.8	250		10/20/20 16:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	88	%	75-125		100		10/20/20 14:03	17060-07-0	1M
Toluene-d8 (S)	97	%	75-125		100		10/20/20 14:03	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		100		10/20/20 14:03	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-5 / T66**      **Lab ID: 10534504005**      Collected: 10/06/20 09:00      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<252	ug/L	839	252	100		10/20/20 14:20	67-64-1	
Allyl chloride	<27.1	ug/L	90.2	27.1	100		10/20/20 14:20	107-05-1	
Benzene	7150	ug/L	40.0	12.0	100		10/20/20 14:20	71-43-2	
Bromobenzene	<13.3	ug/L	44.3	13.3	100		10/20/20 14:20	108-86-1	
Bromochloromethane	<35.8	ug/L	119	35.8	100		10/20/20 14:20	74-97-5	
Bromodichloromethane	<11.4	ug/L	38.0	11.4	100		10/20/20 14:20	75-27-4	
Bromoform	<27.0	ug/L	89.9	27.0	100		10/20/20 14:20	75-25-2	
Bromomethane	<63.4	ug/L	211	63.4	100		10/20/20 14:20	74-83-9	
2-Butanone (MEK)	<88.3	ug/L	294	88.3	100		10/20/20 14:20	78-93-3	
n-Butylbenzene	457	ug/L	51.9	15.6	100		10/20/20 14:20	104-51-8	
sec-Butylbenzene	189	ug/L	48.6	14.6	100		10/20/20 14:20	135-98-8	
tert-Butylbenzene	<12.9	ug/L	43.0	12.9	100		10/20/20 14:20	98-06-6	
Carbon tetrachloride	<16.8	ug/L	55.9	16.8	100		10/20/20 14:20	56-23-5	
Chlorobenzene	<7.6	ug/L	25.3	7.6	100		10/20/20 14:20	108-90-7	
Chloroethane	<42.4	ug/L	141	42.4	100		10/20/20 14:20	75-00-3	
Chloroform	<48.4	ug/L	161	48.4	100		10/20/20 14:20	67-66-3	
Chloromethane	<14.6	ug/L	48.6	14.6	100		10/20/20 14:20	74-87-3	
2-Chlorotoluene	<16.5	ug/L	54.9	16.5	100		10/20/20 14:20	95-49-8	
4-Chlorotoluene	<5.0	ug/L	16.8	5.0	100		10/20/20 14:20	106-43-4	
1,2-Dibromo-3-chloropropane	<125	ug/L	416	125	100		10/20/20 14:20	96-12-8	
Dibromochloromethane	<19.7	ug/L	65.6	19.7	100		10/20/20 14:20	124-48-1	
1,2-Dibromoethane (EDB)	<18.1	ug/L	60.3	18.1	100		10/20/20 14:20	106-93-4	
Dibromomethane	<15.3	ug/L	50.9	15.3	100		10/20/20 14:20	74-95-3	
1,2-Dichlorobenzene	<13.6	ug/L	45.3	13.6	100		10/20/20 14:20	95-50-1	
1,3-Dichlorobenzene	<11.7	ug/L	39.0	11.7	100		10/20/20 14:20	541-73-1	
1,4-Dichlorobenzene	<8.2	ug/L	27.2	8.2	100		10/20/20 14:20	106-46-7	
Dichlorodifluoromethane	<19.5	ug/L	64.9	19.5	100		10/20/20 14:20	75-71-8	
1,1-Dichloroethane	<16.6	ug/L	55.3	16.6	100		10/20/20 14:20	75-34-3	
1,2-Dichloroethane	<25.4	ug/L	84.6	25.4	100		10/20/20 14:20	107-06-2	
1,1-Dichloroethene	<12.6	ug/L	42.0	12.6	100		10/20/20 14:20	75-35-4	
cis-1,2-Dichloroethene	<19.7	ug/L	65.6	19.7	100		10/20/20 14:20	156-59-2	
trans-1,2-Dichloroethene	<19.1	ug/L	63.6	19.1	100		10/20/20 14:20	156-60-5	
Dichlorofluoromethane	<19.0	ug/L	63.3	19.0	100		10/20/20 14:20	75-43-4	
1,2-Dichloropropane	<13.9	ug/L	46.3	13.9	100		10/20/20 14:20	78-87-5	
1,3-Dichloropropane	<12.8	ug/L	42.6	12.8	100		10/20/20 14:20	142-28-9	
2,2-Dichloropropane	<19.8	ug/L	65.9	19.8	100		10/20/20 14:20	594-20-7	
1,1-Dichloropropene	<22.1	ug/L	73.6	22.1	100		10/20/20 14:20	563-58-6	
cis-1,3-Dichloropropene	<7.7	ug/L	25.6	7.7	100		10/20/20 14:20	10061-01-5	
trans-1,3-Dichloropropene	<31.5	ug/L	105	31.5	100		10/20/20 14:20	10061-02-6	
Diethyl ether (Ethyl ether)	<17.5	ug/L	58.3	17.5	100		10/20/20 14:20	60-29-7	
Ethylbenzene	9730	ug/L	24.9	7.5	100		10/20/20 14:20	100-41-4	
Hexachloro-1,3-butadiene	<40.0	ug/L	133	40.0	100		10/20/20 14:20	87-68-3	
Isopropylbenzene (Cumene)	559	ug/L	43.6	13.1	100		10/20/20 14:20	98-82-8	
p-Isopropyltoluene	92.4	ug/L	58.6	17.6	100		10/20/20 14:20	99-87-6	
Methylene Chloride	<110	ug/L	366	110	100		10/20/20 14:20	75-09-2	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-5 / T66**      **Lab ID: 10534504005**      Collected: 10/06/20 09:00      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<54.5	ug/L	181	54.5	100		10/20/20 14:20	108-10-1	
Methyl-tert-butyl ether	<11.6	ug/L	38.6	11.6	100		10/20/20 14:20	1634-04-4	
Naphthalene	2660	ug/L	226	68.0	100		10/20/20 14:20	91-20-3	
n-Propylbenzene	2250	ug/L	60.6	18.2	100		10/20/20 14:20	103-65-1	
Styrene	<11.0	ug/L	36.6	11.0	100		10/20/20 14:20	100-42-5	
1,1,1,2-Tetrachloroethane	<13.1	ug/L	43.6	13.1	100		10/20/20 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	<15.9	ug/L	52.9	15.9	100		10/20/20 14:20	79-34-5	
Tetrachloroethene	<17.4	ug/L	57.9	17.4	100		10/20/20 14:20	127-18-4	
Tetrahydrofuran	<338	ug/L	1130	338	100		10/20/20 14:20	109-99-9	
Toluene	14900	ug/L	40.6	12.2	100		10/20/20 14:20	108-88-3	
1,2,3-Trichlorobenzene	<17.0	ug/L	56.6	17.0	100		10/20/20 14:20	87-61-6	
1,2,4-Trichlorobenzene	<19.0	ug/L	63.3	19.0	100		10/20/20 14:20	120-82-1	
1,1,1-Trichloroethane	<17.0	ug/L	56.6	17.0	100		10/20/20 14:20	71-55-6	
1,1,2-Trichloroethane	<19.1	ug/L	63.6	19.1	100		10/20/20 14:20	79-00-5	
Trichloroethene	<14.9	ug/L	49.6	14.9	100		10/20/20 14:20	79-01-6	
Trichlorofluoromethane	<12.4	ug/L	41.3	12.4	100		10/20/20 14:20	75-69-4	
1,2,3-Trichloropropane	<58.9	ug/L	196	58.9	100		10/20/20 14:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	<30.3	ug/L	101	30.3	100		10/20/20 14:20	76-13-1	
1,2,4-Trimethylbenzene	21700	ug/L	57.3	17.2	100		10/20/20 14:20	95-63-6	
1,3,5-Trimethylbenzene	6260	ug/L	41.3	12.4	100		10/20/20 14:20	108-67-8	
Vinyl chloride	<9.9	ug/L	32.9	9.9	100		10/20/20 14:20	75-01-4	
Xylene (Total)	43900	ug/L	95.6	28.7	100		10/20/20 14:20	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	88	%	75-125		100		10/20/20 14:20	17060-07-0	2M
Toluene-d8 (S)	96	%	75-125		100		10/20/20 14:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		100		10/20/20 14:20	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-6 / T68**      **Lab ID: 10534504006**      Collected: 10/06/20 09:05      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<126	ug/L	420	126	50		10/20/20 15:28	67-64-1	
Allyl chloride	<13.6	ug/L	45.1	13.6	50		10/20/20 15:28	107-05-1	
Benzene	21100	ug/L	40.0	12.0	100		10/20/20 14:37	71-43-2	
Bromobenzene	<6.6	ug/L	22.1	6.6	50		10/20/20 15:28	108-86-1	
Bromochloromethane	<17.9	ug/L	59.6	17.9	50		10/20/20 15:28	74-97-5	
Bromodichloromethane	<5.7	ug/L	19.0	5.7	50		10/20/20 15:28	75-27-4	
Bromoform	<13.5	ug/L	45.0	13.5	50		10/20/20 15:28	75-25-2	
Bromomethane	<31.7	ug/L	106	31.7	50		10/20/20 15:28	74-83-9	
2-Butanone (MEK)	<44.2	ug/L	147	44.2	50		10/20/20 15:28	78-93-3	
n-Butylbenzene	17.0J	ug/L	26.0	7.8	50		10/20/20 15:28	104-51-8	
sec-Butylbenzene	12.0J	ug/L	24.3	7.3	50		10/20/20 15:28	135-98-8	
tert-Butylbenzene	<6.4	ug/L	21.5	6.4	50		10/20/20 15:28	98-06-6	
Carbon tetrachloride	<8.4	ug/L	28.0	8.4	50		10/20/20 15:28	56-23-5	
Chlorobenzene	<3.8	ug/L	12.6	3.8	50		10/20/20 15:28	108-90-7	
Chloroethane	<21.2	ug/L	70.6	21.2	50		10/20/20 15:28	75-00-3	
Chloroform	<24.2	ug/L	80.6	24.2	50		10/20/20 15:28	67-66-3	
Chloromethane	<7.3	ug/L	24.3	7.3	50		10/20/20 15:28	74-87-3	
2-Chlorotoluene	<8.2	ug/L	27.5	8.2	50		10/20/20 15:28	95-49-8	
4-Chlorotoluene	<2.5	ug/L	8.4	2.5	50		10/20/20 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	<62.5	ug/L	208	62.5	50		10/20/20 15:28	96-12-8	
Dibromochloromethane	<9.8	ug/L	32.8	9.8	50		10/20/20 15:28	124-48-1	
1,2-Dibromoethane (EDB)	<9.0	ug/L	30.1	9.0	50		10/20/20 15:28	106-93-4	
Dibromomethane	<7.6	ug/L	25.5	7.6	50		10/20/20 15:28	74-95-3	
1,2-Dichlorobenzene	<6.8	ug/L	22.6	6.8	50		10/20/20 15:28	95-50-1	
1,3-Dichlorobenzene	<5.8	ug/L	19.5	5.8	50		10/20/20 15:28	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/L	13.6	4.1	50		10/20/20 15:28	106-46-7	
Dichlorodifluoromethane	<9.8	ug/L	32.5	9.8	50		10/20/20 15:28	75-71-8	
1,1-Dichloroethane	<8.3	ug/L	27.6	8.3	50		10/20/20 15:28	75-34-3	
1,2-Dichloroethane	200	ug/L	42.3	12.7	50		10/20/20 15:28	107-06-2	
1,1-Dichloroethene	<6.3	ug/L	21.0	6.3	50		10/20/20 15:28	75-35-4	
cis-1,2-Dichloroethene	<9.8	ug/L	32.8	9.8	50		10/20/20 15:28	156-59-2	
trans-1,2-Dichloroethene	<9.6	ug/L	31.8	9.6	50		10/20/20 15:28	156-60-5	
Dichlorofluoromethane	<9.5	ug/L	31.6	9.5	50		10/20/20 15:28	75-43-4	
1,2-Dichloropropane	<7.0	ug/L	23.1	7.0	50		10/20/20 15:28	78-87-5	
1,3-Dichloropropane	<6.4	ug/L	21.3	6.4	50		10/20/20 15:28	142-28-9	
2,2-Dichloropropane	<9.9	ug/L	33.0	9.9	50		10/20/20 15:28	594-20-7	
1,1-Dichloropropene	<11.0	ug/L	36.8	11.0	50		10/20/20 15:28	563-58-6	
cis-1,3-Dichloropropene	<3.8	ug/L	12.8	3.8	50		10/20/20 15:28	10061-01-5	
trans-1,3-Dichloropropene	<15.8	ug/L	52.4	15.8	50		10/20/20 15:28	10061-02-6	
Diethyl ether (Ethyl ether)	<8.8	ug/L	29.1	8.8	50		10/20/20 15:28	60-29-7	
Ethylbenzene	1800	ug/L	12.4	3.7	50		10/20/20 15:28	100-41-4	
Hexachloro-1,3-butadiene	<20.0	ug/L	66.6	20.0	50		10/20/20 15:28	87-68-3	
Isopropylbenzene (Cumene)	55.0	ug/L	21.8	6.6	50		10/20/20 15:28	98-82-8	
p-Isopropyltoluene	<8.8	ug/L	29.3	8.8	50		10/20/20 15:28	99-87-6	
Methylene Chloride	<55.0	ug/L	183	55.0	50		10/20/20 15:28	75-09-2	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: MW-6 / T68**      **Lab ID: 10534504006**      Collected: 10/06/20 09:05      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<b>69.0J</b>	ug/L	90.7	27.2	50		10/20/20 15:28	108-10-1	
Methyl-tert-butyl ether	<b>&lt;5.8</b>	ug/L	19.3	5.8	50		10/20/20 15:28	1634-04-4	
Naphthalene	<b>407</b>	ug/L	113	34.0	50		10/20/20 15:28	91-20-3	
n-Propylbenzene	<b>153</b>	ug/L	30.3	9.1	50		10/20/20 15:28	103-65-1	
Styrene	<b>&lt;5.5</b>	ug/L	18.3	5.5	50		10/20/20 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	<b>&lt;6.6</b>	ug/L	21.8	6.6	50		10/20/20 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	<b>&lt;8.0</b>	ug/L	26.5	8.0	50		10/20/20 15:28	79-34-5	
Tetrachloroethene	<b>&lt;8.7</b>	ug/L	29.0	8.7	50		10/20/20 15:28	127-18-4	
Tetrahydrofuran	<b>&lt;169</b>	ug/L	563	169	50		10/20/20 15:28	109-99-9	
Toluene	<b>19000</b>	ug/L	40.6	12.2	100		10/20/20 14:37	108-88-3	
1,2,3-Trichlorobenzene	<b>&lt;8.5</b>	ug/L	28.3	8.5	50		10/20/20 15:28	87-61-6	
1,2,4-Trichlorobenzene	<b>&lt;9.5</b>	ug/L	31.6	9.5	50		10/20/20 15:28	120-82-1	
1,1,1-Trichloroethane	<b>&lt;8.5</b>	ug/L	28.3	8.5	50		10/20/20 15:28	71-55-6	
1,1,2-Trichloroethane	<b>&lt;9.6</b>	ug/L	31.8	9.6	50		10/20/20 15:28	79-00-5	
Trichloroethene	<b>&lt;7.4</b>	ug/L	24.8	7.4	50		10/20/20 15:28	79-01-6	
Trichlorofluoromethane	<b>&lt;6.2</b>	ug/L	20.6	6.2	50		10/20/20 15:28	75-69-4	
1,2,3-Trichloropropane	<b>&lt;29.4</b>	ug/L	98.1	29.4	50		10/20/20 15:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;15.2</b>	ug/L	50.4	15.2	50		10/20/20 15:28	76-13-1	
1,2,4-Trimethylbenzene	<b>2830</b>	ug/L	28.6	8.6	50		10/20/20 15:28	95-63-6	
1,3,5-Trimethylbenzene	<b>781</b>	ug/L	20.6	6.2	50		10/20/20 15:28	108-67-8	
Vinyl chloride	<b>&lt;4.9</b>	ug/L	16.4	4.9	50		10/20/20 15:28	75-01-4	
Xylene (Total)	<b>20000</b>	ug/L	47.8	14.4	50		10/20/20 15:28	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-125		50		10/20/20 15:28	17060-07-0	
Toluene-d8 (S)	96	%	75-125		50		10/20/20 15:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		50		10/20/20 15:28	460-00-4	

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## ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

**Sample: Trip Blank**      **Lab ID: 10534504007**      Collected: 10/06/20 00:00      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		10/08/20 19:15	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		10/08/20 19:15	107-05-1	
Benzene	<0.12	ug/L	0.40	0.12	1		10/08/20 19:15	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		10/08/20 19:15	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		10/08/20 19:15	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		10/08/20 19:15	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		10/08/20 19:15	75-25-2	
Bromomethane	<0.63	ug/L	2.1	0.63	1		10/08/20 19:15	74-83-9	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		10/08/20 19:15	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		10/08/20 19:15	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		10/08/20 19:15	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		10/08/20 19:15	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		10/08/20 19:15	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		10/08/20 19:15	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		10/08/20 19:15	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		10/08/20 19:15	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		10/08/20 19:15	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		10/08/20 19:15	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		10/08/20 19:15	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		10/08/20 19:15	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		10/08/20 19:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		10/08/20 19:15	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		10/08/20 19:15	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		10/08/20 19:15	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		10/08/20 19:15	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		10/08/20 19:15	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		10/08/20 19:15	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		10/08/20 19:15	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		10/08/20 19:15	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		10/08/20 19:15	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		10/08/20 19:15	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		10/08/20 19:15	156-60-5	
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		10/08/20 19:15	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		10/08/20 19:15	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		10/08/20 19:15	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		10/08/20 19:15	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		10/08/20 19:15	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		10/08/20 19:15	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		10/08/20 19:15	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		10/08/20 19:15	60-29-7	
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		10/08/20 19:15	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		10/08/20 19:15	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		10/08/20 19:15	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		10/08/20 19:15	99-87-6	
Methylene Chloride	1.3J	ug/L	3.7	1.1	1		10/08/20 19:15	75-09-2	

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### ANALYTICAL RESULTS

Project: 49161494.00 200 203 SRC GW T68  
Pace Project No.: 10534504

**Sample: Trip Blank**      **Lab ID: 10534504007**      Collected: 10/06/20 00:00      Received: 10/06/20 19:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B VOC</b>									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		10/08/20 19:15	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		10/08/20 19:15	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		10/08/20 19:15	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		10/08/20 19:15	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		10/08/20 19:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		10/08/20 19:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		10/08/20 19:15	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		10/08/20 19:15	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		10/08/20 19:15	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		10/08/20 19:15	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		10/08/20 19:15	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		10/08/20 19:15	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		10/08/20 19:15	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		10/08/20 19:15	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		10/08/20 19:15	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		10/08/20 19:15	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		10/08/20 19:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		10/08/20 19:15	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		10/08/20 19:15	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		10/08/20 19:15	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		10/08/20 19:15	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		10/08/20 19:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1		10/08/20 19:15	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1		10/08/20 19:15	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1		10/08/20 19:15	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68  
Pace Project No.: 10534504

QC Batch: 703346 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Laboratory: Pace Analytical Services - Minneapolis  
Associated Lab Samples: 10534504001, 10534504002, 10534504007

METHOD BLANK: 3757070 Matrix: Water  
Associated Lab Samples: 10534504001, 10534504002, 10534504007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	10/08/20 18:40	
1,1,1-Trichloroethane	ug/L	<0.17	0.57	10/08/20 18:40	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	0.53	10/08/20 18:40	
1,1,2-Trichloroethane	ug/L	<0.19	0.64	10/08/20 18:40	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.30	1.0	10/08/20 18:40	
1,1-Dichloroethane	ug/L	<0.17	0.55	10/08/20 18:40	
1,1-Dichloroethene	ug/L	<0.13	0.42	10/08/20 18:40	
1,1-Dichloropropane	ug/L	<0.22	0.74	10/08/20 18:40	
1,2,3-Trichlorobenzene	ug/L	<0.17	0.57	10/08/20 18:40	
1,2,3-Trichloropropane	ug/L	<0.59	2.0	10/08/20 18:40	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.63	10/08/20 18:40	
1,2,4-Trimethylbenzene	ug/L	<0.17	0.57	10/08/20 18:40	
1,2-Dibromo-3-chloropropane	ug/L	<1.2	4.2	10/08/20 18:40	
1,2-Dibromoethane (EDB)	ug/L	<0.18	0.60	10/08/20 18:40	
1,2-Dichlorobenzene	ug/L	<0.14	0.45	10/08/20 18:40	
1,2-Dichloroethane	ug/L	<0.25	0.85	10/08/20 18:40	
1,2-Dichloropropane	ug/L	<0.14	0.46	10/08/20 18:40	
1,3,5-Trimethylbenzene	ug/L	<0.12	0.41	10/08/20 18:40	
1,3-Dichlorobenzene	ug/L	<0.12	0.39	10/08/20 18:40	
1,3-Dichloropropane	ug/L	<0.13	0.43	10/08/20 18:40	
1,4-Dichlorobenzene	ug/L	<0.082	0.27	10/08/20 18:40	
2,2-Dichloropropane	ug/L	<0.20	0.66	10/08/20 18:40	
2-Butanone (MEK)	ug/L	<0.88	2.9	10/08/20 18:40	
2-Chlorotoluene	ug/L	<0.16	0.55	10/08/20 18:40	
4-Chlorotoluene	ug/L	<0.050	0.17	10/08/20 18:40	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	10/08/20 18:40	
Acetone	ug/L	<2.5	8.4	10/08/20 18:40	
Allyl chloride	ug/L	<0.27	0.90	10/08/20 18:40	
Benzene	ug/L	<0.12	0.40	10/08/20 18:40	
Bromobenzene	ug/L	<0.13	0.44	10/08/20 18:40	
Bromochloromethane	ug/L	<0.36	1.2	10/08/20 18:40	
Bromodichloromethane	ug/L	<0.11	0.38	10/08/20 18:40	
Bromoform	ug/L	<0.27	0.90	10/08/20 18:40	
Bromomethane	ug/L	<0.63	2.1	10/08/20 18:40	
Carbon tetrachloride	ug/L	<0.17	0.56	10/08/20 18:40	
Chlorobenzene	ug/L	<0.076	0.25	10/08/20 18:40	
Chloroethane	ug/L	<0.42	1.4	10/08/20 18:40	
Chloroform	ug/L	<0.48	1.6	10/08/20 18:40	
Chloromethane	ug/L	<0.15	0.49	10/08/20 18:40	
cis-1,2-Dichloroethene	ug/L	<0.20	0.66	10/08/20 18:40	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

METHOD BLANK: 3757070

Matrix: Water

Associated Lab Samples: 10534504001, 10534504002, 10534504007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.077	0.26	10/08/20 18:40	
Dibromochloromethane	ug/L	<0.20	0.66	10/08/20 18:40	
Dibromomethane	ug/L	<0.15	0.51	10/08/20 18:40	
Dichlorodifluoromethane	ug/L	<0.20	0.65	10/08/20 18:40	
Dichlorofluoromethane	ug/L	<0.19	0.63	10/08/20 18:40	
Diethyl ether (Ethyl ether)	ug/L	<0.18	0.58	10/08/20 18:40	
Ethylbenzene	ug/L	<0.075	0.25	10/08/20 18:40	
Hexachloro-1,3-butadiene	ug/L	0.76J	1.3	10/08/20 18:40	
Isopropylbenzene (Cumene)	ug/L	<0.13	0.44	10/08/20 18:40	
Methyl-tert-butyl ether	ug/L	<0.12	0.39	10/08/20 18:40	
Methylene Chloride	ug/L	<1.1	3.7	10/08/20 18:40	
n-Butylbenzene	ug/L	<0.16	0.52	10/08/20 18:40	
n-Propylbenzene	ug/L	<0.18	0.61	10/08/20 18:40	
Naphthalene	ug/L	<0.68	2.3	10/08/20 18:40	
p-Isopropyltoluene	ug/L	<0.18	0.59	10/08/20 18:40	
sec-Butylbenzene	ug/L	<0.15	0.49	10/08/20 18:40	
Styrene	ug/L	<0.11	0.37	10/08/20 18:40	
tert-Butylbenzene	ug/L	<0.13	0.43	10/08/20 18:40	
Tetrachloroethene	ug/L	<0.17	0.58	10/08/20 18:40	
Tetrahydrofuran	ug/L	<3.4	11.3	10/08/20 18:40	
Toluene	ug/L	<0.12	0.41	10/08/20 18:40	
trans-1,2-Dichloroethene	ug/L	<0.19	0.64	10/08/20 18:40	
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	10/08/20 18:40	
Trichloroethene	ug/L	<0.15	0.50	10/08/20 18:40	
Trichlorofluoromethane	ug/L	<0.12	0.41	10/08/20 18:40	
Vinyl chloride	ug/L	<0.099	0.33	10/08/20 18:40	
Xylene (Total)	ug/L	<0.29	0.96	10/08/20 18:40	
1,2-Dichloroethane-d4 (S)	%	101	75-125	10/08/20 18:40	
4-Bromofluorobenzene (S)	%	105	75-125	10/08/20 18:40	
Toluene-d8 (S)	%	104	75-125	10/08/20 18:40	

LABORATORY CONTROL SAMPLE: 3757071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	75-128	
1,1,1-Trichloroethane	ug/L	20	21.2	106	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	69-129	
1,1,2-Trichloroethane	ug/L	20	20.1	100	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.4	102	74-125	
1,1-Dichloroethane	ug/L	20	21.1	105	75-125	
1,1-Dichloroethene	ug/L	20	21.3	107	65-125	
1,1-Dichloropropene	ug/L	20	21.2	106	69-131	
1,2,3-Trichlorobenzene	ug/L	20	21.8	109	75-125	
1,2,3-Trichloropropane	ug/L	20	19.6	98	75-125	

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

LABORATORY CONTROL SAMPLE: 3757071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	19.8	99	67-131	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	105	75-125	
1,2-Dichlorobenzene	ug/L	20	20.6	103	75-125	
1,2-Dichloroethane	ug/L	20	20.2	101	74-125	
1,2-Dichloropropane	ug/L	20	20.5	103	68-125	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	75-125	
1,3-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	20	20.6	103	75-125	
1,4-Dichlorobenzene	ug/L	20	20.5	103	75-125	
2,2-Dichloropropane	ug/L	20	20.1	101	70-133	
2-Butanone (MEK)	ug/L	100	105	105	62-142	
2-Chlorotoluene	ug/L	20	20.4	102	75-125	
4-Chlorotoluene	ug/L	20	20.5	102	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.0	99	75-125	
Acetone	ug/L	100	135	135	47-150	
Allyl chloride	ug/L	20	19.4	97	65-125	
Benzene	ug/L	20	20.7	104	75-125	
Bromobenzene	ug/L	20	19.7	98	75-125	
Bromochloromethane	ug/L	20	21.1	106	75-125	
Bromodichloromethane	ug/L	20	20.3	102	75-128	
Bromoform	ug/L	20	22.3	112	75-125	
Bromomethane	ug/L	20	28.8	144	43-150	
Carbon tetrachloride	ug/L	20	22.5	113	75-127	
Chlorobenzene	ug/L	20	20.6	103	75-125	
Chloroethane	ug/L	20	18.8	94	72-130	
Chloroform	ug/L	20	20.2	101	75-125	
Chloromethane	ug/L	20	20.7	104	55-128	
cis-1,2-Dichloroethene	ug/L	20	21.5	108	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	74-132	
Dibromochloromethane	ug/L	20	21.4	107	75-125	
Dibromomethane	ug/L	20	21.2	106	71-137	
Dichlorodifluoromethane	ug/L	20	20.5	103	69-126	
Dichlorofluoromethane	ug/L	20	19.8	99	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	21.7	109	72-125	
Ethylbenzene	ug/L	20	20.4	102	75-125	
Hexachloro-1,3-butadiene	ug/L	20	22.9	114	74-129	
Isopropylbenzene (Cumene)	ug/L	20	21.2	106	75-125	
Methyl-tert-butyl ether	ug/L	20	20.4	102	69-125	
Methylene Chloride	ug/L	20	20.5	103	72-125	
n-Butylbenzene	ug/L	20	21.0	105	75-128	
n-Propylbenzene	ug/L	20	20.0	100	75-125	
Naphthalene	ug/L	20	20.8	104	70-125	
p-Isopropyltoluene	ug/L	20	21.1	105	75-125	
sec-Butylbenzene	ug/L	20	20.8	104	75-127	
Styrene	ug/L	20	20.5	103	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

LABORATORY CONTROL SAMPLE: 3757071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	20.7	104	75-125	
Tetrachloroethene	ug/L	20	20.7	103	74-125	
Tetrahydrofuran	ug/L	200	209	105	73-132	
Toluene	ug/L	20	20.3	101	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.1	110	69-125	
trans-1,3-Dichloropropene	ug/L	20	21.5	108	69-130	
Trichloroethene	ug/L	20	21.7	108	75-127	
Trichlorofluoromethane	ug/L	20	19.6	98	71-132	
Vinyl chloride	ug/L	20	20.3	102	65-128	
Xylene (Total)	ug/L	60	61.4	102	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			95	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757603 3757604

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10534496001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	<0.13	20	20	20	16.3	16.3	81	81	71-128	0	30	
1,1,1-Trichloroethane	ug/L	<0.17	20	20	20	17.9	18.6	90	93	75-144	4	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	20	20	20	16.4	15.7	82	79	63-125	4	30	
1,1,2-Trichloroethane	ug/L	<0.19	20	20	20	16.2	15.3	81	76	75-125	6	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.30	20	20	20	19.0	18.8	95	94	69-141	1	30	
1,1-Dichloroethane	ug/L	<0.17	20	20	20	17.0	17.2	85	86	68-125	1	30	
1,1-Dichloroethene	ug/L	<0.13	20	20	20	18.5	18.4	93	92	62-135	1	30	
1,1-Dichloropropene	ug/L	<0.22	20	20	20	18.2	18.7	91	93	61-147	3	30	
1,2,3-Trichlorobenzene	ug/L	<0.17	20	20	20	18.1	18.9	90	94	59-145	4	30	
1,2,3-Trichloropropane	ug/L	<0.59	20	20	20	16.2	15.9	81	79	69-125	2	30	
1,2,4-Trichlorobenzene	ug/L	<0.19	20	20	20	17.5	18.2	88	91	59-144	4	30	
1,2,4-Trimethylbenzene	ug/L	<0.17	20	20	20	17.6	18.1	88	90	56-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	<1.2	50	50	50	41.7	40.6	83	81	64-125	3	30	
1,2-Dibromoethane (EDB)	ug/L	<0.18	20	20	20	16.3	16.3	81	82	71-125	0	30	
1,2-Dichlorobenzene	ug/L	<0.14	20	20	20	17.3	17.9	86	89	74-125	3	30	
1,2-Dichloroethane	ug/L	<0.25	20	20	20	16.3	16.8	81	84	64-125	3	30	
1,2-Dichloropropane	ug/L	<0.14	20	20	20	16.1	15.5	81	77	63-125	4	30	
1,3,5-Trimethylbenzene	ug/L	<0.12	20	20	20	17.6	18.3	88	92	63-132	4	30	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	20	17.4	18.5	87	93	74-125	6	30	
1,3-Dichloropropane	ug/L	<0.13	20	20	20	16.4	16.3	82	82	75-125	0	30	
1,4-Dichlorobenzene	ug/L	<0.082	20	20	20	17.2	17.9	86	90	73-125	4	30	
2,2-Dichloropropane	ug/L	<0.20	20	20	20	18.8	18.8	94	94	64-145	0	30	
2-Butanone (MEK)	ug/L	<0.88	100	100	100	76.2	75.9	76	76	39-125	0	30	
2-Chlorotoluene	ug/L	<0.16	20	20	20	17.1	18.2	86	91	68-128	6	30	
4-Chlorotoluene	ug/L	<0.050	20	20	20	17.2	17.7	86	88	71-128	3	30	

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757603 3757604												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10534496001 Result	Spike Conc.	Spike Conc.	MS Result							
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	100	100	77.9	75.6	78	76	65-125	3	30	
Acetone	ug/L	<2.5	100	100	70.1	71.4	70	71	32-133	2	30	
Allyl chloride	ug/L	<0.27	20	20	16.3	16.6	82	83	61-125	2	30	
Benzene	ug/L	<0.12	20	20	16.8	16.8	84	84	63-125	0	30	
Bromobenzene	ug/L	<0.13	20	20	16.4	16.4	82	82	75-125	0	30	
Bromochloromethane	ug/L	<0.36	20	20	17.3	16.8	86	84	67-125	3	30	
Bromodichloromethane	ug/L	<0.11	20	20	16.4	16.1	82	80	67-139	2	30	
Bromoform	ug/L	<0.27	20	20	17.1	17.8	86	89	75-125	4	30	
Bromomethane	ug/L	<0.63	20	20	25.0	24.7	124	123	50-150	1	30	
Carbon tetrachloride	ug/L	<0.17	20	20	19.3	19.0	96	95	70-148	2	30	
Chlorobenzene	ug/L	<0.076	20	20	16.8	17.1	84	85	75-125	2	30	
Chloroethane	ug/L	<0.42	20	20	17.8	17.1	89	86	62-142	4	30	
Chloroform	ug/L	<0.48	20	20	16.0	16.4	80	82	67-125	2	30	
Chloromethane	ug/L	<0.15	20	20	21.0	20.0	105	100	43-140	5	30	
cis-1,2-Dichloroethene	ug/L	<0.20	20	20	17.6	17.5	88	87	64-134	1	30	
cis-1,3-Dichloropropene	ug/L	<0.077	20	20	16.4	16.2	82	81	68-129	1	30	
Dibromochloromethane	ug/L	<0.20	20	20	17.0	17.1	85	85	71-137	1	30	
Dibromomethane	ug/L	<0.15	20	20	16.5	16.3	82	81	66-130	1	30	
Dichlorodifluoromethane	ug/L	<0.20	20	20	20.8	20.8	104	104	61-144	0	30	
Dichlorofluoromethane	ug/L	<0.19	20	20	18.6	18.6	93	93	68-125	0	30	
Diethyl ether (Ethyl ether)	ug/L	<0.18	20	20	16.9	16.9	85	84	57-127	1	30	
Ethylbenzene	ug/L	<0.075	20	20	16.8	17.4	84	87	66-128	3	30	
Hexachloro-1,3-butadiene	ug/L	<0.40	20	20	21.7	19.5	108	97	52-150	11	30	
Isopropylbenzene (Cumene)	ug/L	<0.13	20	20	17.6	18.7	88	94	73-138	6	30	
Methyl-tert-butyl ether	ug/L	<0.12	20	20	15.7	15.9	78	80	60-125	2	30	
Methylene Chloride	ug/L	<1.1	20	20	16.7	16.8	83	84	59-125	1	30	
n-Butylbenzene	ug/L	<0.16	20	20	18.9	19.6	95	98	68-146	3	30	
n-Propylbenzene	ug/L	<0.18	20	20	17.6	18.4	88	92	72-132	4	30	
Naphthalene	ug/L	<0.68	20	20	16.6	17.0	83	84	55-135	2	30	
p-Isopropyltoluene	ug/L	<0.18	20	20	18.5	19.4	93	97	69-139	5	30	
sec-Butylbenzene	ug/L	<0.15	20	20	18.7	19.0	93	95	69-149	2	30	
Styrene	ug/L	<0.11	20	20	17.1	17.0	85	85	75-126	1	30	
tert-Butylbenzene	ug/L	<0.13	20	20	17.6	18.8	88	94	67-147	6	30	
Tetrachloroethene	ug/L	<0.17	20	20	18.0	18.6	90	93	70-141	3	30	
Tetrahydrofuran	ug/L	<3.4	200	200	170	174	85	87	64-128	2	30	
Toluene	ug/L	<0.12	20	20	16.7	16.7	84	83	64-125	0	30	
trans-1,2-Dichloroethene	ug/L	<0.19	20	20	18.6	18.6	93	93	62-135	0	30	
trans-1,3-Dichloropropene	ug/L	<0.32	20	20	17.1	17.3	86	87	69-125	1	30	
Trichloroethene	ug/L	<0.15	20	20	17.6	17.2	88	86	69-141	2	30	
Trichlorofluoromethane	ug/L	<0.12	20	20	19.6	19.7	98	98	61-148	1	30	
Vinyl chloride	ug/L	<0.099	20	20	21.0	20.9	105	105	56-144	0	30	
Xylene (Total)	ug/L	<0.29	60	60	51.2	52.0	85	87	64-131	1	30	
1,2-Dichloroethane-d4 (S)	%						103	102	75-125			
4-Bromofluorobenzene (S)	%						100	99	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757603 3757604												
Parameter	Units	10534496001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%						102	102	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68  
Pace Project No.: 10534504

QC Batch: 705505 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W  
Laboratory: Pace Analytical Services - Minneapolis  
Associated Lab Samples: 10534504003, 10534504004, 10534504005, 10534504006

METHOD BLANK: 3769161 Matrix: Water  
Associated Lab Samples: 10534504003, 10534504004, 10534504005, 10534504006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	10/20/20 12:15	
1,1,1-Trichloroethane	ug/L	<0.17	0.57	10/20/20 12:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	0.53	10/20/20 12:15	
1,1,2-Trichloroethane	ug/L	<0.19	0.64	10/20/20 12:15	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.30	1.0	10/20/20 12:15	
1,1-Dichloroethane	ug/L	<0.17	0.55	10/20/20 12:15	
1,1-Dichloroethene	ug/L	<0.13	0.42	10/20/20 12:15	
1,1-Dichloropropane	ug/L	<0.22	0.74	10/20/20 12:15	
1,2,3-Trichlorobenzene	ug/L	<0.17	0.57	10/20/20 12:15	
1,2,3-Trichloropropane	ug/L	<0.59	2.0	10/20/20 12:15	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.63	10/20/20 12:15	
1,2,4-Trimethylbenzene	ug/L	<0.17	0.57	10/20/20 12:15	
1,2-Dibromo-3-chloropropane	ug/L	<1.2	4.2	10/20/20 12:15	
1,2-Dibromoethane (EDB)	ug/L	<0.18	0.60	10/20/20 12:15	
1,2-Dichlorobenzene	ug/L	<0.14	0.45	10/20/20 12:15	
1,2-Dichloroethane	ug/L	<0.25	0.85	10/20/20 12:15	
1,2-Dichloropropane	ug/L	<0.14	0.46	10/20/20 12:15	
1,3,5-Trimethylbenzene	ug/L	<0.12	0.41	10/20/20 12:15	
1,3-Dichlorobenzene	ug/L	<0.12	0.39	10/20/20 12:15	
1,3-Dichloropropane	ug/L	<0.13	0.43	10/20/20 12:15	
1,4-Dichlorobenzene	ug/L	<0.082	0.27	10/20/20 12:15	
2,2-Dichloropropane	ug/L	<0.20	0.66	10/20/20 12:15	
2-Butanone (MEK)	ug/L	<0.88	2.9	10/20/20 12:15	
2-Chlorotoluene	ug/L	<0.16	0.55	10/20/20 12:15	
4-Chlorotoluene	ug/L	<0.050	0.17	10/20/20 12:15	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	10/20/20 12:15	
Acetone	ug/L	<2.5	8.4	10/20/20 12:15	
Allyl chloride	ug/L	<0.27	0.90	10/20/20 12:15	
Benzene	ug/L	<0.12	0.40	10/20/20 12:15	
Bromobenzene	ug/L	<0.13	0.44	10/20/20 12:15	
Bromochloromethane	ug/L	<0.36	1.2	10/20/20 12:15	
Bromodichloromethane	ug/L	<0.11	0.38	10/20/20 12:15	
Bromoform	ug/L	<0.27	0.90	10/20/20 12:15	
Bromomethane	ug/L	<0.63	2.1	10/20/20 12:15	
Carbon tetrachloride	ug/L	<0.17	0.56	10/20/20 12:15	
Chlorobenzene	ug/L	<0.076	0.25	10/20/20 12:15	
Chloroethane	ug/L	<0.42	1.4	10/20/20 12:15	
Chloroform	ug/L	<0.48	1.6	10/20/20 12:15	
Chloromethane	ug/L	<0.15	0.49	10/20/20 12:15	
cis-1,2-Dichloroethene	ug/L	<0.20	0.66	10/20/20 12:15	

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

METHOD BLANK: 3769161

Matrix: Water

Associated Lab Samples: 10534504003, 10534504004, 10534504005, 10534504006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.077	0.26	10/20/20 12:15	
Dibromochloromethane	ug/L	<0.20	0.66	10/20/20 12:15	
Dibromomethane	ug/L	<0.15	0.51	10/20/20 12:15	
Dichlorodifluoromethane	ug/L	<0.20	0.65	10/20/20 12:15	
Dichlorofluoromethane	ug/L	<0.19	0.63	10/20/20 12:15	
Diethyl ether (Ethyl ether)	ug/L	<0.18	0.58	10/20/20 12:15	
Ethylbenzene	ug/L	<0.075	0.25	10/20/20 12:15	
Hexachloro-1,3-butadiene	ug/L	<0.40	1.3	10/20/20 12:15	
Isopropylbenzene (Cumene)	ug/L	<0.13	0.44	10/20/20 12:15	
Methyl-tert-butyl ether	ug/L	<0.12	0.39	10/20/20 12:15	
Methylene Chloride	ug/L	<1.1	3.7	10/20/20 12:15	
n-Butylbenzene	ug/L	<0.16	0.52	10/20/20 12:15	
n-Propylbenzene	ug/L	<0.18	0.61	10/20/20 12:15	
Naphthalene	ug/L	<0.68	2.3	10/20/20 12:15	
p-Isopropyltoluene	ug/L	<0.18	0.59	10/20/20 12:15	
sec-Butylbenzene	ug/L	<0.15	0.49	10/20/20 12:15	
Styrene	ug/L	<0.11	0.37	10/20/20 12:15	
tert-Butylbenzene	ug/L	<0.13	0.43	10/20/20 12:15	
Tetrachloroethene	ug/L	<0.17	0.58	10/20/20 12:15	
Tetrahydrofuran	ug/L	<3.4	11.3	10/20/20 12:15	
Toluene	ug/L	<0.12	0.41	10/20/20 12:15	
trans-1,2-Dichloroethene	ug/L	<0.19	0.64	10/20/20 12:15	
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	10/20/20 12:15	
Trichloroethene	ug/L	<0.15	0.50	10/20/20 12:15	
Trichlorofluoromethane	ug/L	<0.12	0.41	10/20/20 12:15	
Vinyl chloride	ug/L	<0.099	0.33	10/20/20 12:15	
Xylene (Total)	ug/L	<0.29	0.96	10/20/20 12:15	
1,2-Dichloroethane-d4 (S)	%	91	75-125	10/20/20 12:15	
4-Bromofluorobenzene (S)	%	96	75-125	10/20/20 12:15	
Toluene-d8 (S)	%	97	75-125	10/20/20 12:15	

LABORATORY CONTROL SAMPLE: 3769162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	92	75-128	
1,1,1-Trichloroethane	ug/L	20	17.2	86	75-128	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	69-129	
1,1,2-Trichloroethane	ug/L	20	19.0	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.1	90	74-125	
1,1-Dichloroethane	ug/L	20	18.9	95	75-125	
1,1-Dichloroethene	ug/L	20	16.5	83	65-125	
1,1-Dichloropropene	ug/L	20	18.2	91	69-131	
1,2,3-Trichlorobenzene	ug/L	20	21.0	105	75-125	
1,2,3-Trichloropropane	ug/L	20	18.3	92	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

LABORATORY CONTROL SAMPLE: 3769162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	20.3	102	67-131	
1,2,4-Trimethylbenzene	ug/L	20	19.6	98	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.4	87	65-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	98	75-125	
1,2-Dichlorobenzene	ug/L	20	20.7	104	75-125	
1,2-Dichloroethane	ug/L	20	17.7	89	74-125	
1,2-Dichloropropane	ug/L	20	19.4	97	68-125	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	75-125	
1,3-Dichlorobenzene	ug/L	20	20.8	104	75-125	
1,3-Dichloropropane	ug/L	20	20.0	100	75-125	
1,4-Dichlorobenzene	ug/L	20	21.1	106	75-125	
2,2-Dichloropropane	ug/L	20	18.7	93	70-133	
2-Butanone (MEK)	ug/L	100	91.5	92	62-142	
2-Chlorotoluene	ug/L	20	19.5	98	75-125	
4-Chlorotoluene	ug/L	20	19.5	98	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.3	95	75-125	
Acetone	ug/L	100	97.8	98	47-150	
Allyl chloride	ug/L	20	15.9	80	65-125	
Benzene	ug/L	20	18.6	93	75-125	
Bromobenzene	ug/L	20	19.9	99	75-125	
Bromochloromethane	ug/L	20	18.5	92	75-125	
Bromodichloromethane	ug/L	20	17.8	89	75-128	
Bromoform	ug/L	20	16.2	81	75-125	
Bromomethane	ug/L	20	32.2	161	43-150	CH,L3,SS
Carbon tetrachloride	ug/L	20	16.3	81	75-127	
Chlorobenzene	ug/L	20	20.5	103	75-125	
Chloroethane	ug/L	20	21.9	110	72-130	
Chloroform	ug/L	20	18.5	92	75-125	
Chloromethane	ug/L	20	20.1	101	55-128	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	75-125	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	74-132	
Dibromochloromethane	ug/L	20	18.6	93	75-125	
Dibromomethane	ug/L	20	20.4	102	71-137	
Dichlorodifluoromethane	ug/L	20	19.6	98	69-126	
Dichlorofluoromethane	ug/L	20	28.3	142	75-125	CH,L3
Diethyl ether (Ethyl ether)	ug/L	20	18.1	91	72-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.3	107	74-129	
Isopropylbenzene (Cumene)	ug/L	20	20.7	103	75-125	
Methyl-tert-butyl ether	ug/L	20	18.6	93	69-125	
Methylene Chloride	ug/L	20	17.4	87	72-125	
n-Butylbenzene	ug/L	20	20.0	100	75-128	
n-Propylbenzene	ug/L	20	19.8	99	75-125	
Naphthalene	ug/L	20	19.1	96	70-125	
p-Isopropyltoluene	ug/L	20	20.3	102	75-125	
sec-Butylbenzene	ug/L	20	20.1	100	75-127	
Styrene	ug/L	20	20.2	101	75-125	

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### QUALITY CONTROL DATA

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

LABORATORY CONTROL SAMPLE: 3769162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	19.7	98	75-125	
Tetrachloroethene	ug/L	20	20.7	103	74-125	
Tetrahydrofuran	ug/L	200	175	87	73-132	
Toluene	ug/L	20	19.5	98	75-125	
trans-1,2-Dichloroethene	ug/L	20	16.9	85	69-125	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	69-130	
Trichloroethene	ug/L	20	20.2	101	75-127	
Trichlorofluoromethane	ug/L	20	21.2	106	71-132	
Vinyl chloride	ug/L	20	20.8	104	65-128	
Xylene (Total)	ug/L	60	60.3	100	75-125	
1,2-Dichloroethane-d4 (S)	%			91	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771022 3771023

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10535817001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	18.4	17.5	92	87	71-128	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	18.5	16.8	93	84	75-144	10	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	18.7	18.0	93	90	63-125	4	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	18.5	17.7	93	88	75-125	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	20	20.4	18.6	102	93	69-141	9	30	
1,1-Dichloroethane	ug/L	ND	20	20	20	19.1	17.9	95	90	68-125	6	30	
1,1-Dichloroethene	ug/L	ND	20	20	20	17.7	15.9	89	79	62-135	11	30	
1,1-Dichloropropene	ug/L	ND	20	20	20	19.8	17.8	99	89	61-147	11	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	22.7	22.9	113	115	59-145	1	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	18.0	18.0	90	90	69-125	0	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	22.0	21.6	110	108	59-144	2	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	20.3	19.4	101	97	56-139	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	50	41.3	42.1	83	84	64-125	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	19.3	18.4	96	92	71-125	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	21.3	20.3	107	101	74-125	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	20	17.7	16.8	88	84	64-125	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	20	19.4	18.2	97	91	63-125	7	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	20.7	19.9	104	100	63-132	4	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	21.0	20.1	105	101	74-125	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	20	20.0	18.8	100	94	75-125	6	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	21.3	20.5	106	103	73-125	4	30	
2,2-Dichloropropane	ug/L	ND	20	20	20	19.6	18.1	98	90	64-145	8	30	
2-Butanone (MEK)	ug/L	ND	100	100	100	78.2	78.9	78	79	39-125	1	30	
2-Chlorotoluene	ug/L	ND	20	20	20	19.4	18.3	97	92	68-128	6	30	
4-Chlorotoluene	ug/L	ND	20	20	20	19.7	18.6	98	93	71-128	6	30	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771022 3771023													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10535817001 Result	Spike Conc.	Spike Conc.	MS Conc.								
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	100	90.8	91.8	91	92	65-125	1	30	
Acetone	ug/L	ND	100	100	100	72.5	71.0	73	71	32-133	2	30	
Allyl chloride	ug/L	ND	20	20	20	16.2	15.4	81	77	61-125	5	30	
Benzene	ug/L	ND	20	20	20	18.8	17.5	94	88	63-125	7	30	
Bromobenzene	ug/L	ND	20	20	20	20.3	19.0	102	95	75-125	7	30	
Bromochloromethane	ug/L	ND	20	20	20	18.2	17.3	91	86	67-125	5	30	
Bromodichloromethane	ug/L	ND	20	20	20	18.1	16.9	90	84	67-139	7	30	
Bromoform	ug/L	ND	20	20	20	15.4	15.2	77	76	75-125	1	30	
Bromomethane	ug/L	ND	20	20	20	35.6	33.5	178	168	50-150	6	30	CH, MO, SS
Carbon tetrachloride	ug/L	ND	20	20	20	17.7	16.2	89	81	70-148	9	30	
Chlorobenzene	ug/L	ND	20	20	20	20.7	19.3	103	97	75-125	7	30	
Chloroethane	ug/L	ND	20	20	20	22.5	20.7	113	104	62-142	8	30	
Chloroform	ug/L	ND	20	20	20	18.4	17.4	92	87	67-125	6	30	
Chloromethane	ug/L	ND	20	20	20	21.5	19.9	108	99	43-140	8	30	
cis-1,2-Dichloroethene	ug/L	4.2	20	20	20	22.6	21.1	92	85	64-134	7	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	18.7	17.6	94	88	68-129	6	30	
Dibromochloromethane	ug/L	ND	20	20	20	18.6	18.0	93	90	71-137	3	30	
Dibromomethane	ug/L	ND	20	20	20	19.7	19.2	99	96	66-130	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20	22.9	20.5	115	102	61-144	11	30	
Dichlorofluoromethane	ug/L	ND	20	20	20	28.8	26.5	144	133	68-125	8	30	CH, MO
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	20	17.2	16.9	86	84	57-127	2	30	
Ethylbenzene	ug/L	ND	20	20	20	20.0	18.6	100	93	66-128	7	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20	25.6	22.1	128	110	52-150	15	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	21.3	20.2	107	101	73-138	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20	17.9	17.7	90	88	60-125	1	30	
Methylene Chloride	ug/L	ND	20	20	20	16.1	15.7	80	78	59-125	2	30	
n-Butylbenzene	ug/L	ND	20	20	20	21.1	21.1	106	105	68-146	0	30	
n-Propylbenzene	ug/L	ND	20	20	20	20.7	19.7	103	99	72-132	5	30	
Naphthalene	ug/L	ND	20	20	20	19.7	19.8	98	99	55-135	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	20	21.2	20.8	106	104	69-139	2	30	
sec-Butylbenzene	ug/L	ND	20	20	20	21.4	20.9	107	105	69-149	2	30	
Styrene	ug/L	ND	20	20	20	20.2	19.0	101	95	75-126	6	30	
tert-Butylbenzene	ug/L	ND	20	20	20	20.5	19.8	102	99	67-147	3	30	
Tetrachloroethene	ug/L	1.1	20	20	20	22.6	21.5	108	102	70-141	5	30	
Tetrahydrofuran	ug/L	ND	200	200	200	178	169	89	85	64-128	5	30	
Toluene	ug/L	ND	20	20	20	19.9	18.5	100	92	64-125	8	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	17.8	16.2	89	81	62-135	9	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20	18.9	17.9	94	90	69-125	5	30	
Trichloroethene	ug/L	ND	20	20	20	21.1	19.3	106	96	69-141	9	30	
Trichlorofluoromethane	ug/L	ND	20	20	20	23.9	21.8	120	109	61-148	9	30	
Vinyl chloride	ug/L	ND	20	20	20	23.1	20.7	116	104	56-144	11	30	
Xylene (Total)	ug/L	ND	60	60	60	61.2	57.0	102	95	64-131	7	30	
1,2-Dichloroethane-d4 (S)	%							90	91	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: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

Parameter	Units	3771022		3771023		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10535817001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
4-Bromofluorobenzene (S)	%.					97	96	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.

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## QUALIFIERS

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

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### 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

- |    |  |
|----|--|
| 1M | The values for sample 10534504004 appear to indicate that the vials were non-homogenous. The highest values were reported to present the highest risk data.    |
| 2M | The values for sample 10534504005 appear to indicate that the vials were non-homogenous. The highest values were reported to present the highest risk data.    |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.                                  |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.                     |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  |
| SS | This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value. |

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 49161494.00 200 203 SRC GW T68

Pace Project No.: 10534504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10534504001	MW-1 / T68	EPA 8260B	703346		
10534504002	MW-4 / T68	EPA 8260B	703346		
10534504003	MW-2 / T68	EPA 8260B	705505		
10534504004	MW-5 / T68	EPA 8260B	705505		
10534504005	MW-5 / T66	EPA 8260B	705505		
10534504006	MW-6 / T68	EPA 8260B	705505		
10534504007	Trip Blank	EPA 8260B	703346		

**REPORT OF LABORATORY ANALYSIS**

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# Barr Engineering Co. Chain of Custody

Sample Origination State

CO  MI  MN  MO  ND  TX  UT  WI  Other: \_\_\_\_\_

REPORT TO	INVOICE TO
Company: <i>Barr Engineering Co.</i>	Company: <i>Barr</i>
Address: <i>325 S. Lake Ave.</i>	Address:
Address: <i>Duluth, MN 55802</i>	Address:
Name: <i>Lynette Carney</i>	Name:
email: <i>lcarney@barr.com</i>	email:
Copy to: <i>BarrDM@barr.com</i>	P.O.:
Project Name: <i>S&amp;L GW Sampling Tank 68</i>	Barr Project No: <i>49161494.00 200 203</i>

Perform MS/MSD Y/N	Total Number of Containers	Analysis Requested		Water	Soil	COC Number: <b>No 587979</b>	COC <u>1</u> of <u>1</u>	
		IB	VOCs					
						<b>WO#: 10534504</b>  10534504	Matrix Code: GW = Groundwater Preservative Code: A = None I = Ascorbic Acid J = Zn Acetate K = Other	

Location	Sample Depth			Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y/N	Total Number of Containers	IB	VOCs	% Solids	Preservative Code	Field Filtered Y/N
	Start	Stop	Unit (m./ft. or in.)										
1. <i>MW-1 / T68</i>				<i>10/04/2020</i>	<i>0840</i>	<i>GW</i>	<i>N</i>	<i>3</i>	<i>X</i>			<i>001</i>	
2. <i>MW-4 / T68</i>					<i>0845</i>		<i>N</i>	<i>3</i>	<i>X</i>			<i>002</i>	
3. <i>MW-2 / T68</i>					<i>0856</i>		<i>N</i>	<i>3</i>	<i>X</i>			<i>003</i>	
4. <i>MW-5 / T68</i>					<i>0855</i>		<i>N</i>	<i>3</i>	<i>X</i>			<i>004</i>	
5. <i>MW-5 / T66</i>					<i>0900</i>		<i>N</i>	<i>3</i>	<i>X</i>			<i>005</i>	
6. <i>MW-6 / T68</i>					<i>0905</i>		<i>N</i>	<i>3</i>	<i>X</i>			<i>006</i>	
7. <i>TRP Blank</i>					<i>-</i>		<i>N</i>	<i>2</i>	<i>X</i>			<i>007</i>	
8.													
9.													
10.													

<b>BARR USE ONLY</b>		Relinquished by: <i>Keith Montz</i>	On Ice? <input checked="" type="checkbox"/> N	Date: <i>10/6/20</i>	Time: <i>1315</i>	Received by: <i>[Signature]</i>	Date: <i>10/6/20</i>	Time: <i>1315</i>
Sampled by: <i>KUTS</i>		Relinquished by: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/> N	Date: <i>10/6/20</i>	Time: <i>1400</i>	Received by: <i>[Signature]</i>	Date: <i>10/6/20</i>	Time: <i>1430</i>
Barr Proj. Manager: <i>LMC</i>		Samples Shipped VIA: <input type="checkbox"/> Ground Courier <input type="checkbox"/> Air Carrier		Air Bill Number:		Requested Due Date: <input checked="" type="checkbox"/> Standard Turn Around Time		
Barr DQ Manager: <i>JET</i>		<input type="checkbox"/> Sampler <input type="checkbox"/> Other: _____		Temperature on Receipt (°C): <i>2.8</i>		<input type="checkbox"/> Rush _____ (mm/dd/yyyy)		
Lab Name: <i>Pice</i>		Lab WO: _____		Custody Seal Intact? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> None		Page 34 of 35		
Lab Location: <i>Minneapolis</i>		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



Document Name:  
Sample Condition Upon Receipt (SCUR) - MN

Document Revised: 12Aug2020  
Page 1 of 1

Document No.:  
ENV-FRM-MIN4-0150 Rev.01

Pace Analytical Services -  
Minneapolis

Sample Condition  
Upon Receipt

Client Name:

Project #:

WO#: 10534504

Courier:

Fed Ex  UPS  USPS  Client  
 Pace  SpeeDee  Commercial

PM: AA1

Due Date: 10/14/20

CLIENT: BARR

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)  
 T4(0254)  T5(0489) Type of Ice:  Wet  Blue  None  Dry  Melted

Did Samples Originate in West Virginia?  Yes  No Were All Container Temps Taken?  Yes  No  N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 28 °C

Average Corrected Temp (no temp blank only): °C  See Exceptions ENV-FRM-MIN4-0142  1 Container

Correction Factor: fine Cooler Temp Corrected w/temp blank: 28 °C

USDA Regulated Soil:  N/A, water sample/Other: \_\_\_\_\_

Date/Initials of Person Examining Contents: 10/16/20

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

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142
Matrix: <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Res. Chlorine? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142 pH Paper Lot# Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Pace Trip Blank Lot # (if purchased): 272908 (2)
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: \_\_\_\_\_  
Comments/Resolution: \_\_\_\_\_

Field Data Required?  Yes  No

Date/Time: \_\_\_\_\_

Project Manager Review:

Date: 10/9/20

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: ewe Page 35 of 35