



July 7, 2021

Karl Beaster, PG
Sr. Environmental Advisor
Enbridge Energy, Limited Partnership
11 East Superior Street, Suite 125
Duluth, MN 55802
karl.beaster@enbridge.com

**Subject: Monitoring Well Sampling Results – MW-6
Enbridge Line 13 MP 312, Blackhawk Island Rd Valve Site, Ft. Atkinson, WI
WDNR BRRTS #02-28-586199**

Dear Mr. Beaster:

WSP USA Inc. (WSP) is pleased to submit the following summary of sampling results for monitoring well MW-6 that was sampled on June 24, 2021. This monitoring well was sampled as a part of Enbridge's ongoing assessment of the Line 13 Milepost (MP) 312 Valve Site located at the intersection of Blackhawk Island Road and Westphal Lane near Fort Atkinson, Wisconsin (Site).

WSP collected a water sample from monitoring well MW-6 on June 24, 2021. The location of MW-6 is shown on Figure 1 (labeled as MW-06-32). The groundwater sample was collected in accordance with WSP's Standard Operating Procedures using low-flow purge and sample methods. The sample was analyzed by Pace Analytical of Green Bay, Wisconsin for volatile organic compounds (VOCs) by EPA Method 8260. Quality Assurance / Quality Control (QA/QC) samples included one duplicate sample (DUP062421) and one trip blank sample (TRIP BLANK), which were submitted with the monitoring well sample.

Table 1 includes historical laboratory analytical results for the monitoring wells located at the Site. Enclosure A includes the laboratory report for the sample collected from MW-6 and its duplicate sample, and the trip blank. Benzene was detected in the MW-6 sample at a concentration of 6.3 micrograms per liter ($\mu\text{g/l}$) and in its duplicate at a concentration of 6.2 $\mu\text{g/l}$. Trichloroethene was detected in both the MW-6 sample and its duplicate sample at a concentration of 1.3 $\mu\text{g/l}$. No other VOCs were detected above the laboratory method detection limit (MDL) in the MW-6 sample or its duplicate sample. No VOCs were detected above the laboratory MDL in the trip blank.

In accordance with Wisconsin Administrative Code, Chapter NR 712, the certification of a hydrogeologist for this sampling results submittal is included in Enclosure B.

WSP USA
Suite 2800
211 North Broadway
St. Louis, MO 63102

Tel.: +1 314 206-4444
Fax: +1 314 421-1741
wsp.com



Please do not hesitate to contact me if you have questions:

Kind regards,

A handwritten signature in black ink that reads "Tim Huff". The signature is written in a cursive style.

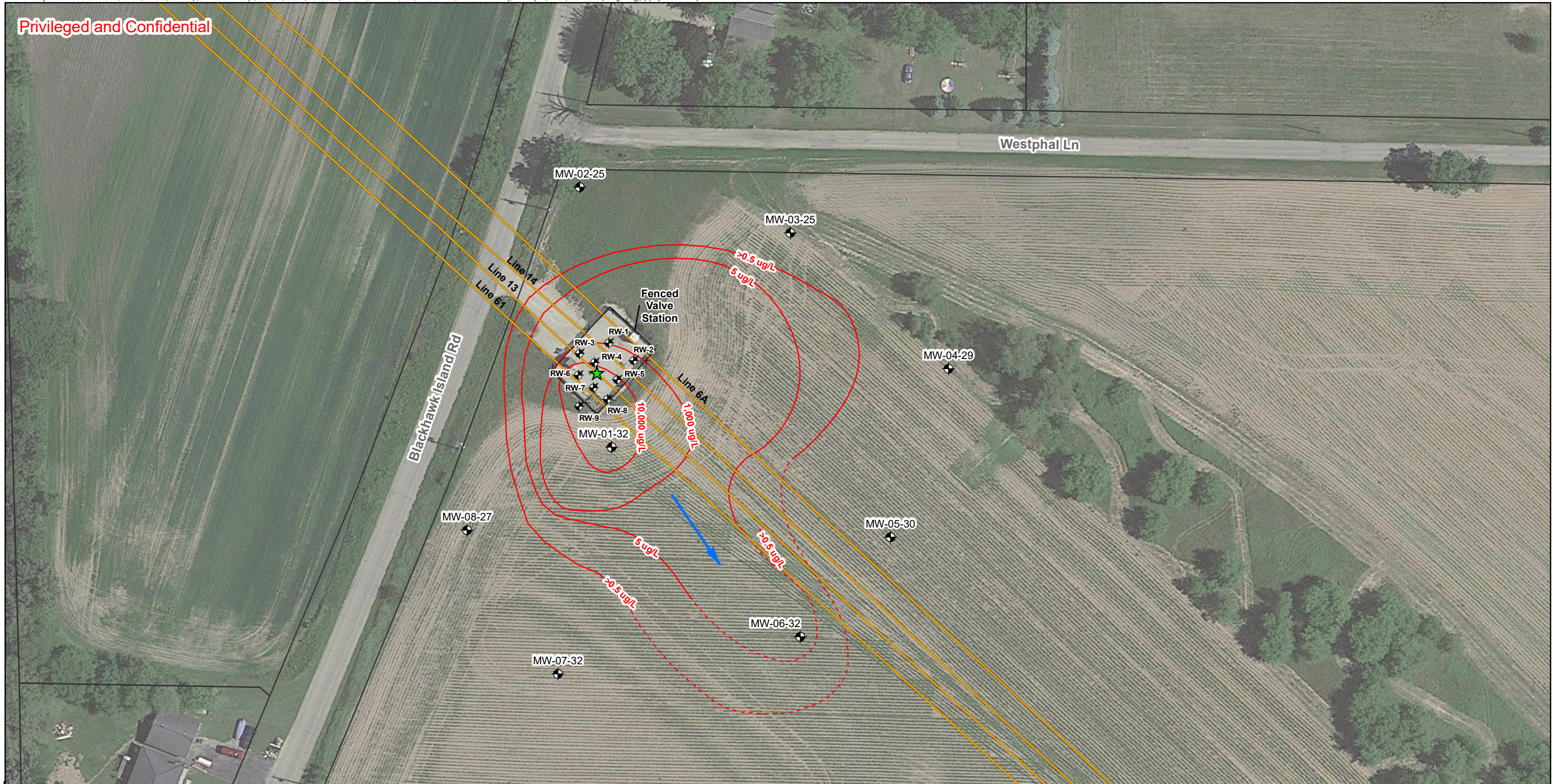
Timothy A. Huff
Senior Lead Geologist

TAH :
\\10.0.199.15\job\enbridge\ft atkinson\line 13 mp 312_work plans and reports\2021-06 mw sampling results to wdnr\2021.07.07_line13 mp312_monitoring well sampling results.docx

Encl.

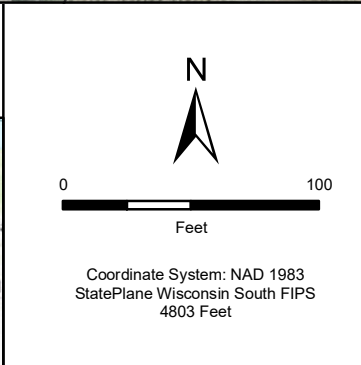
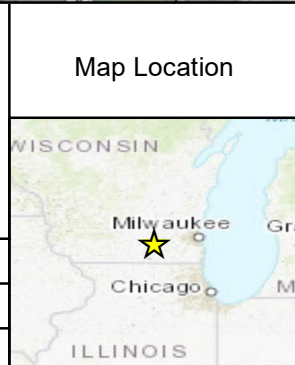
FIGURE

Privileged and Confidential



ENBRIDGE

Drawn: WSP 7/6/2021
 Approved: WSP 7/6/2021
 Project #: 31401967.705



- Legend**
- Approximate Release Location
 - Remediation Well
 - Existing Monitoring Well
 - Groundwater Flow Direction
 - Benzene Isoconcentration Contours (ug/l) (Dashed where inferred)
 - Enbridge Pipeline
 - Fenced Valve Site
 - Property Parcels

Note:
 1. Benzene isoconcentration contours developed from July/Sept 2020 temporary well sampling results and April/June 2021 monitoring well sampling results

FIGURE 1
 SITE LAYOUT
 LINE 13 MP 312 VALVE SITE
 FORT ATKINSON, WISCONSIN
 ENBRIDGE ENERGY
 LIMITED PARTNERSHIP

TABLE

Table 1
Historical Monitoring Well Analytical Results for Select Compounds
Line 13 MP312 Valve Site
Fort Atkinson, Wisconsin

Location	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)
Enforcement Standard (a)		5	700	800	2,000	5
Preventative Action Limit (a)		0.5	140	160	400	0.5
MW-1	10/09/20	23,700	222	7,650	728	<51.0
	01/15/21	24,400	244	10,400	775	<51.0
	04/01/21	17,600	220	9,280	758	<12.8
MW-2	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-3	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-4	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-5	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-6	10/08/20	<0.25	<0.32	<0.27	<0.73	1.0
	01/14/21	0.34 J	<0.32	<0.27	<0.26	1.7
	04/01/21	3.4	<0.32	<0.27	<0.73	0.95 J
	05/26/21	4.7	<0.33	<0.29	<1.05	1.3
	06/24/21	6.3	<0.33	<0.29	<1.05	1.3
MW-7	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-8	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26

General Notes

Shaded = Regulatory exceedance

Bold = Enforcement Standard exceedance

Italics = Preventative Action Limit exceedance

Acronyms and Abbreviations

a/ Wisconsin Department of Natural Resources (WDNR) Administrative Code Chapter NR 140.10, Table 1 - Public Health Groundwater Standards. February 2021.

J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation or analyte is a Tentatively Identified Compound (TIC) which does not have established quantitation or detection limits (i.e. all detections are estimated)

ug/L = Micrograms per liter.

ENCLOSURE A – LABORATORY ANALYTICAL RESULTS

June 29, 2021

Timothy Huff
WSP USA
211 North Broadway
Saint Louis, MO 63102

RE: Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Dear Timothy Huff:

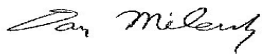
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise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

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

- Pace Analytical Services - Green Bay

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Matt Grady, WSP USA - MADISON
Brian Kimpel, WSP USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40229037001	MW-6	Water	06/24/21 10:40	06/25/21 09:00
40229037002	DUP062421	Water	06/24/21 00:00	06/25/21 09:00
40229037003	TRIP BLANK	Water	06/24/21 00:00	06/25/21 09:00

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SAMPLE ANALYTE COUNT

Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40229037001	MW-6	EPA 8260	LAP	68
40229037002	DUP062421	EPA 8260	LAP	68
40229037003	TRIP BLANK	EPA 8260	LAP	68

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

Sample: MW-6 **Lab ID: 40229037001** Collected: 06/24/21 10:40 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 12:41	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 12:41	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 12:41	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:41	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 12:41	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 12:41	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 12:41	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 12:41	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 12:41	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 12:41	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 12:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 12:41	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 12:41	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 12:41	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 12:41	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:41	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:41	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:41	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 12:41	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 12:41	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 12:41	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 12:41	106-43-4	
Benzene	6.3	ug/L	1.0	0.30	1		06/29/21 12:41	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 12:41	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 12:41	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 12:41	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 12:41	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 12:41	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 12:41	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 12:41	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 12:41	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 12:41	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		06/29/21 12:41	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 12:41	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 12:41	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 12:41	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 12:41	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 12:41	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 12:41	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 12:41	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 12:41	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		06/29/21 12:41	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 12:41	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Sample: MW-6 **Lab ID: 40229037001** Collected: 06/24/21 10:40 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 12:41	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:41	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/29/21 12:41	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 12:41	108-88-3	
Trichloroethene	1.3	ug/L	1.0	0.32	1		06/29/21 12:41	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 12:41	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 12:41	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 12:41	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:41	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/21 12:41	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 12:41	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		06/29/21 12:41	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		06/29/21 12:41	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:41	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:41	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 12:41	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 12:41	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 12:41	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 12:41	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 12:41	10061-02-6	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		06/29/21 12:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/29/21 12:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 12:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

Sample: DUP062421 **Lab ID: 40229037002** Collected: 06/24/21 00:00 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 13:01	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 13:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 13:01	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 13:01	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 13:01	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 13:01	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 13:01	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 13:01	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 13:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 13:01	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 13:01	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 13:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 13:01	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 13:01	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 13:01	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 13:01	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 13:01	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 13:01	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 13:01	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 13:01	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 13:01	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 13:01	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 13:01	106-43-4	
Benzene	6.2	ug/L	1.0	0.30	1		06/29/21 13:01	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 13:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 13:01	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 13:01	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 13:01	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 13:01	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 13:01	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 13:01	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 13:01	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 13:01	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 13:01	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		06/29/21 13:01	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 13:01	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 13:01	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 13:01	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 13:01	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 13:01	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 13:01	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 13:01	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 13:01	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		06/29/21 13:01	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 13:01	75-09-2	

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Sample: DUP062421 **Lab ID: 40229037002** Collected: 06/24/21 00:00 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 13:01	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 13:01	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/29/21 13:01	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 13:01	108-88-3	
Trichloroethene	1.3	ug/L	1.0	0.32	1		06/29/21 13:01	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 13:01	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 13:01	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 13:01	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 13:01	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/21 13:01	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 13:01	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		06/29/21 13:01	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		06/29/21 13:01	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 13:01	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/21 13:01	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 13:01	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 13:01	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 13:01	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 13:01	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 13:01	10061-02-6	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		06/29/21 13:01	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/29/21 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 13:01	2199-69-1	

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Sample: TRIP BLANK **Lab ID: 40229037003** Collected: 06/24/21 00:00 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 12:21	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:21	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 12:21	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 12:21	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:21	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 12:21	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 12:21	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 12:21	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 12:21	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 12:21	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 12:21	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 12:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 12:21	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 12:21	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 12:21	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 12:21	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:21	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:21	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 12:21	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 12:21	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 12:21	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 12:21	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 12:21	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 12:21	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 12:21	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 12:21	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 12:21	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 12:21	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 12:21	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 12:21	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 12:21	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 12:21	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 12:21	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		06/29/21 12:21	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 12:21	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 12:21	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 12:21	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 12:21	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 12:21	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 12:21	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 12:21	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 12:21	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		06/29/21 12:21	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 12:21	75-09-2	

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ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

Sample: TRIP BLANK **Lab ID: 40229037003** Collected: 06/24/21 00:00 Received: 06/25/21 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 12:21	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:21	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/29/21 12:21	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 12:21	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 12:21	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 12:21	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 12:21	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 12:21	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 12:21	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/29/21 12:21	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 12:21	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		06/29/21 12:21	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		06/29/21 12:21	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:21	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/29/21 12:21	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 12:21	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 12:21	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 12:21	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 12:21	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 12:21	10061-02-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		06/29/21 12:21	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/29/21 12:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/29/21 12:21	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

QC Batch: 389099 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40229037001, 40229037002, 40229037003

METHOD BLANK: 2244887 Matrix: Water

Associated Lab Samples: 40229037001, 40229037002, 40229037003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/29/21 07:46	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/29/21 07:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/29/21 07:46	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/29/21 07:46	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/29/21 07:46	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/29/21 07:46	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/29/21 07:46	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/29/21 07:46	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/29/21 07:46	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/29/21 07:46	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/29/21 07:46	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/29/21 07:46	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/29/21 07:46	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/29/21 07:46	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/29/21 07:46	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/29/21 07:46	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/29/21 07:46	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/29/21 07:46	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/29/21 07:46	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/29/21 07:46	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/29/21 07:46	
2-Chlorotoluene	ug/L	<0.89	5.0	06/29/21 07:46	
4-Chlorotoluene	ug/L	<0.89	5.0	06/29/21 07:46	
Benzene	ug/L	<0.30	1.0	06/29/21 07:46	
Bromobenzene	ug/L	<0.36	1.0	06/29/21 07:46	
Bromochloromethane	ug/L	<0.36	5.0	06/29/21 07:46	
Bromodichloromethane	ug/L	<0.42	1.0	06/29/21 07:46	
Bromoform	ug/L	<3.8	5.0	06/29/21 07:46	
Bromomethane	ug/L	<1.2	5.0	06/29/21 07:46	
Carbon tetrachloride	ug/L	<0.37	1.0	06/29/21 07:46	
Chlorobenzene	ug/L	<0.86	1.0	06/29/21 07:46	
Chloroethane	ug/L	<1.4	5.0	06/29/21 07:46	
Chloroform	ug/L	<1.2	5.0	06/29/21 07:46	
Chloromethane	ug/L	<1.6	5.0	06/29/21 07:46	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/29/21 07:46	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/29/21 07:46	
Cyclohexane	ug/L	<1.3	5.0	06/29/21 07:46	
Dibromochloromethane	ug/L	<2.6	5.0	06/29/21 07:46	
Dibromomethane	ug/L	<0.99	5.0	06/29/21 07:46	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/29/21 07:46	

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: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

METHOD BLANK: 2244887 Matrix: Water
Associated Lab Samples: 40229037001, 40229037002, 40229037003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	06/29/21 07:46	
Ethylbenzene	ug/L	<0.33	1.0	06/29/21 07:46	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/29/21 07:46	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/29/21 07:46	
m&p-Xylene	ug/L	<0.70	2.0	06/29/21 07:46	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/29/21 07:46	
Methylcyclohexane	ug/L	<1.2	5.0	06/29/21 07:46	
Methylene Chloride	ug/L	<0.32	5.0	06/29/21 07:46	
n-Butylbenzene	ug/L	<0.86	1.0	06/29/21 07:46	
n-Heptane	ug/L	<1.6	5.0	06/29/21 07:46	
n-Hexane	ug/L	<1.5	5.0	06/29/21 07:46	
n-Propylbenzene	ug/L	<0.35	1.0	06/29/21 07:46	
Naphthalene	ug/L	<1.1	5.0	06/29/21 07:46	
o-Xylene	ug/L	<0.35	1.0	06/29/21 07:46	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/29/21 07:46	
sec-Butylbenzene	ug/L	<0.42	1.0	06/29/21 07:46	
Styrene	ug/L	<0.36	1.0	06/29/21 07:46	
tert-Butylbenzene	ug/L	<0.59	1.0	06/29/21 07:46	
Tetrachloroethene	ug/L	<0.41	1.0	06/29/21 07:46	
Toluene	ug/L	<0.29	1.0	06/29/21 07:46	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/29/21 07:46	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/29/21 07:46	
Trichloroethene	ug/L	<0.32	1.0	06/29/21 07:46	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/29/21 07:46	
Vinyl chloride	ug/L	<0.17	1.0	06/29/21 07:46	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	06/29/21 07:46	
4-Bromofluorobenzene (S)	%	93	70-130	06/29/21 07:46	
Toluene-d8 (S)	%	98	70-130	06/29/21 07:46	

LABORATORY CONTROL SAMPLE: 2244888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.7	115	66-130	
1,1,2-Trichloroethane	ug/L	50	58.3	117	70-130	
1,1-Dichloroethane	ug/L	50	58.5	117	68-132	
1,1-Dichloroethene	ug/L	50	48.7	97	85-126	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.5	93	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	57.6	115	70-130	
1,2-Dichlorobenzene	ug/L	50	53.7	107	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
1,2-Dichloropropane	ug/L	50	58.1	116	78-125	
1,3-Dichlorobenzene	ug/L	50	54.7	109	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: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

LABORATORY CONTROL SAMPLE: 2244888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	55.1	110	70-130	
Benzene	ug/L	50	54.9	110	70-132	
Bromodichloromethane	ug/L	50	57.2	114	70-130	
Bromoform	ug/L	50	53.1	106	65-130	
Bromomethane	ug/L	50	40.8	82	44-128	
Carbon tetrachloride	ug/L	50	51.8	104	70-130	
Chlorobenzene	ug/L	50	55.9	112	70-130	
Chloroethane	ug/L	50	47.6	95	73-137	
Chloroform	ug/L	50	55.2	110	80-122	
Chloromethane	ug/L	50	44.0	88	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Cyclohexane	ug/L	50	55.6	111	50-150	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dichlorodifluoromethane	ug/L	50	24.4	49	22-151	
Ethylbenzene	ug/L	50	57.6	115	80-123	
Isopropylbenzene (Cumene)	ug/L	50	59.5	119	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	52.6	105	66-130	
Methylcyclohexane	ug/L	50	50.7	101	50-150	
Methylene Chloride	ug/L	50	50.9	102	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	54.3	109	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	54.1	108	80-121	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	58-125	
Trichloroethene	ug/L	50	55.0	110	70-130	
Trichlorofluoromethane	ug/L	50	54.7	109	84-148	
Vinyl chloride	ug/L	50	46.1	92	63-142	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 31401967.705-06.00 L13MP312 VA

Pace Project No.: 40229037

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: 31401967.705-06.00 L13MP312 VA
Pace Project No.: 40229037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40229037001	MW-6	EPA 8260	389099		
40229037002	DUP062421	EPA 8260	389099		
40229037003	TRIP BLANK	EPA 8260	389099		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: WSP

Branch/Location: Madison

Project Contact: Tim Huff

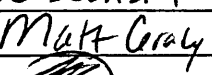
Phone: 571-277-6759

Project Number: 31401967.705-06.00

Project Name: L13 MP 312 Uaue Site

Project State: Wisconsin

Sampled By (Print): Matt Gray

Sampled By (Sign): 

PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION

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

40229037

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested
	B	VOL 8260

Quote #: _____

Mail To Contact: Tim Huff

Mail To Company: WSP

Mail To Address: Tim.Huff@wsp.com

Invoice To Contact: Tim Huff

Invoice To Company: WSP

Invoice To Address: Tim.Huff@wsp.com

Invoice To Phone: 571-217-6759

CLIENT COMMENTS: _____

LAB COMMENTS (Lab Use Only): _____

Profile #: _____

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-6e	06/24/21	1040	GW
002	DUPO62421	06/24/21	0800	GW
003	TRIP BLANK			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: 118 hrs.

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

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

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

Relinquished By: <u>Matt Gray</u>	Date/Time: <u>06/24/2021 1620</u>	Received By: <u>PACE MADISON</u>	Date/Time: <u>06/24/2021 1620</u>
Relinquished By: <u>C. Roguski</u>	Date/Time: <u>6/25/21 0900</u>	Received By: <u>Susan Miller</u>	Date/Time: <u>6/25/21 0900</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40229037

Receipt Temp = 4 °C

Sample Receipt pH
 OK / Adjusted

Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

Sample Preservation Receipt Form

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

Client Name: WSP

Project # 40229037

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	JG9U	JG9U	WGFU								WPFU	SP5T	ZPLC	GN	
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
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016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

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

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



Document Name: Sample Condition Upon Receipt (SCUR)
Document No.: ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: WSP

Project #: **WO#: 40229037**

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

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR - 105 Type of Ice: Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 4.5 / Corr: 4

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 6-25-21 / Initials: SKW
Labeled By Initials: AW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>FCC</u>	<u>6-25-21 SKW</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Filter</u>	<u>6-25-21 SKW</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>467</u>			

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

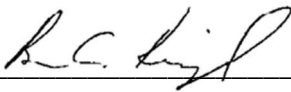
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

ENCLOSURE B – HYDROGEOLOGIST CERTIFICATION

CERTIFICATION

Monitoring Well Sampling Results – MW-6
Enbridge Line 13 MP 312 Valve Site
Blackhawk Island Road
Fort Atkinson, Wisconsin
BRRTS Number: 02-28-586199

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



7/7/2021

Brian C. Kimpel,
Supervisory Hydrogeologist, Wisconsin P.G. #1140

Date