

**Notice:** This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

**NOTE:** Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

**Notification of Property Owners and Occupants:**

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

**Site Information**

Site Name		DNR ID # (BRRTS #)	
Enbridge Line 13 Blackhawk Valve		02-28-586199	
Address	City	State	ZIP Code
Blackhawk Island Road	Fort Atkinson	WI	53538

**Responsible Party**

The person(s) responsible for completing this environmental investigation is:

Property Owner

Enbridge Energy, Limited Partnership (Responsible Party / Operator) Tri-State Holdings LLC (property owner)

Address	City	State	ZIP Code
11 East Superior Street - Suite 125	Duluth	MN	55802
Contact Person	Phone Number (include area code)		
Karl Beaster, P.G.	(715) 718-1040		

Person or company that collected samples

WSP USA Inc.

**Sample Results (Results Attached)**

Reason for Sampling:  Routine  Other (define) \_\_\_\_\_

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: <u>diluent liquid</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

**Contaminants in Vapor**

	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

# Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

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## Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

**You are not identified as the person that is responsible for this contamination.** However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

**Option for written exemption:** You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: [dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf](http://dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf).

## Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

### Environmental Consultant

Company Name		Contact Person Last Name		First Name	
WSP USA Inc.		Huff		Tim	
Address			City	State	ZIP Code
5957 McKee Road, Suite 7			Madison	WI	53719
Phone # (inc. area code)	Email				
(314) 206-4212	tim.huff@wsp.com				

Select which agency:  Natural Resources       Agriculture, Trade and Consumer Protection

### State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Rice		Caroline		(608) 219-2182	
Address			City	State	ZIP Code
3911 Fish Hatchery Rd			Fitchburg	WI	53711
Email					
caroline.rice@wisconsin.gov					



March 9, 2023

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-13-33 & MW-06-100  
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 wells that were sampled February 24, 2023, at the Line 13 Milepost (MP) 312 Valve Site located at the intersection of Blackhawk Island Road and Westphal Lane near Fort Atkinson, Wisconsin (Site). The samples were collected in accordance with the Work Plan for Groundwater Sampling and Monitoring Well Installation, dated July 8, 2022. In accordance with NR 716.09 (3)(a), Wis. Adm. Code, the Wisconsin Department of Natural Resources (WDNR) provided a notice to proceed in correspondence dated August 8, 2022. This summary of results is provided to fulfill the reporting requirements of NR 716.14, Wis. Adm. Code.

The samples were collected from the two monitoring wells (MW-13-33 and MW-06-100) to provide confirmation of sampling results from January 2023, which indicated WDNR Enforcement Standard (ES) or Preventive Action Limit (PAL) exceedances for benzene or vinyl chloride at the two monitoring well locations.

## **SAMPLING LOCATIONS AND PROCEDURES**

WSP collected water samples from MW-13-33 and MW-06-100 at the Site on February 24, 2023. The well locations are shown on Figure 1. Groundwater samples were collected in accordance with WSP's Standard Operating Procedures using low-flow purge and sample methods. Samples were analyzed by Pace Analytical of Green Bay, Wisconsin with split samples analyzed by ALS of Holland, Michigan. Samples were analyzed for:

- Volatile organic compounds (VOCs) by EPA Method 8260.
- Quality Assurance / Quality Control (QA/QC) samples included one duplicate sample, one equipment blank sample, and one trip blank sample, which were submitted with the monitoring well samples for VOCs analysis.

WSP USA  
Suite 250  
701 Emerson Road  
Creve Coeur, MO 63141

Tel: +1 314 206-4212  
wsp.com



## VOCS SAMPLING RESULTS

**The results from MW-06-100 were consistent with historical sampling results, and the results from MW-13-33 confirm that the January 2023 detections of benzene and vinyl chloride appear to be an anomaly.** Table 1 includes the laboratory analytical results for VOCs detected in samples from the February sampling event. Table 2 includes the historical laboratory analytical results for select VOCs from previous sampling events, and Table 3 includes the field parameter readings. Enclosure A includes the laboratory reports.

Benzene was detected in the sample from MW-06-100 analyzed by Pace Analytical at an estimated concentration of 0.55  $\mu\text{g/l}$ , which was above the PAL of 0.5  $\mu\text{g/l}$  but below the ES of 5.0  $\mu\text{g/l}$ . 2-butanone was detected in the sample from MW-06-100 analyzed by ALS at an estimated concentration of 0.99  $\mu\text{g/l}$ , which was below the PAL and ES. 2-butanone was also detected at 1.9  $\mu\text{g/l}$  in the equipment blank sample analyzed by ALS.

No VOCs were detected in the samples from MW-13-33 analyzed by Pace Analytical or ALS.

No VOCs were detected above the laboratory method detection limits in the trip blank sample or in the equipment blank sample analyzed by Pace Analytical. The results for the duplicate samples collected at monitoring well MW-13-33 were consistent with their respective primary samples (i.e. all non-detect for both laboratories).

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

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

Kind regards,

Timothy A. Huff  
Assistant Vice President

TAH  
\\corp.pbwan.net\us\centraldata\usmes100\es-shares\clients\enbridge\fort atkinson, wi - 113 mp312\_work plans and reports\2023-03 mw sampling results to wdnr\2023.03.09\_line13 mp312\_monitoring well sampling results.docx

Encl.

FIGURE





REFERENCE:  
AERIAL FROM NEARMAP, GEOREFERENCED,  
IMAGE DATE: MAY 9, 2022.

NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER  
THE DIRECTION OF A PROFESSIONAL. DO NOT ALTER  
THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN  
CONSENT OF WSP USA INC.

THE ORIGINAL VERSION OF THIS DRAWING IS IN  
COLOR. BLACK AND WHITE COPIES MAY NOT  
ACCURATELY DEPICT CERTAIN INFORMATION.



FIGURE 1  
MONITORING WELL AND  
REMEDATION WELL LOCATIONS

LINE 13 MP 312 VALVE SITE  
FORT ATKINSON, WISCONSIN  
PREPARED FOR  
ENBRIDGE ENERGY LIMITED PARTNERSHIP

Drawn By: *ECC*  
Checked:  
Approved: *TAH 9/28/2022*  
DWG Name: 314V1967.705-025



## TABLES

Table 1

Monitoring Well Sampling Analytical Results - February 2023 - VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	2-Butanone (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	4,000	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	800	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	3,930,000	7,270	9.05	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	16,500,000	31,800	38.0	33.0
MW-06-100 (Pace)	02/24/23	<b>0.55 J</b>	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<6.5	<1.1	<0.32	<0.17
MW-06-100 (ALS)	02/24/23	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	0.99 J	<0.45	<0.43	<0.53
MW-13-33 (Pace)	02/24/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<6.5	<1.1	<0.32	<0.17
	02/24/2023 - Duplicate	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<6.5	<1.1	<0.32	<0.17
MW-13-33 (ALS)	02/24/23	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	<0.52	<0.45	<0.43	<0.53
	02/24/2023 - Duplicate	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	<0.52	<0.45	<0.43	<0.53
Trip Blank (Pace)	02/24/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<6.5	<1.1	<0.32	<0.17
EB22423A (Pace)	02/24/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<6.5	<1.1	<0.32	<0.17
EB22423A (ALS)	02/24/23	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	1.9	<0.45	<0.43	<0.53

General Notes

Shaded = Regulatory exceedance of PAL or ES

Boxed = Regulatory exceedance of residential or commercial VRSL

**Bold = Enforcement Standard exceedance**

*Italics = Preventive 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. June 2021.

b/ WDNR Vapor Risk Screening Level (VRSL) based on U.S. Environmental Protection Agency (EPA) Vapor Intrusion Screening Levels (VISL). February 2022.

In accordance with WDNR Publications RR0136 and RR800, VRSL calculated using EPA VISL Calculator with a Hazard Quotient of 1, Target Risk of 10<sup>-5</sup>, Attenuation Factor of 0.001, and a site-specific average groundwater temperature of 12.83°C.

J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation.

NE = Not established.

"<" = Not detected above the reported method detection limit.

ug/L = Micrograms per liter.



Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-01-32	10/09/20	23,700	222	7,650	728	NA	NA	NA	<249	<51.0	<34.9
	01/15/21	24,400	244	10,400	775	NA	NA	NA	<249	<51.0	<34.9
	04/01/21	17,600	220	9,280	758	1,180	178 J	259	89.9 J	<12.8	<8.7
	07/08/21	21,800	188	8,150	586	933	<73.1	175 J	<56.5	<16.0	<8.7
	10/26/21	18,900	167 J	7,830	503	556 J	<292	<239	<226	<63.9	<34.9
	01/25/22	20,700	207	8,690	637	1,600	1,480	424 J	<144	<40.0	<21.8
	04/20/22	22,200	223	9,560	743	1,460	272 J	290 J	<226	<63.9	<34.9
	07/27/22	15,300	<40.6	647	58.5 J	636	1,210	<149	<141	<40.0	<21.8
	10/25/22	2,230	159	<36.0	<131	4,120	778	1,790	687	<40.0	<21.8
	01/18/23	15,900	138	5,140	445	558 J	<183	<149	<141	<40.0	<21.8
MW-01-63	09/08/21	0.50 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	0.41 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	1.6 J	<0.32	<0.17
	01/25/22	0.80 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	1.1	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/27/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-02-25	10/08/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/27/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17	

Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-02-55	09/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-03-25	10/08/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-04-29	10/08/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/26/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17

Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-05-30	10/08/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/09/21	0.61 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	09/01/21	1.3	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	2.0	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	1.9	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	1.2	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	1.6	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	1.1	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-05-60	09/01/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	NA	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-06-32	10/08/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	1.0	<0.17
	01/14/21	0.34 J	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	1.7	<0.17
	04/01/21	3.4	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	0.95 J	<0.17
	05/26/21	4.7	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	1.3	<0.17
	06/24/21	6.3	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	1.3	<0.17
	07/09/21	6.8	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	1.1	<0.17
	08/31/21	7.5	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	0.53 J	<0.17
	10/27/21	5.9	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	1.6	<0.17
	01/24/22	4.7	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	1.9	<0.17
	04/19/22	2.1	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	3.3	<0.17
	07/26/22	0.86 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	2.7	<0.17
	10/25/22	0.52 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	4	<0.17
	01/18/23	0.53 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	4.7	<0.17



Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-06-60	08/31/21	<0.30	<0.33	0.33 J	<1.05	<1.3	<1.5	<1.2	<1.1	<b>11.3</b>	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>15.0</b>	<0.17
	01/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>12.5</b>	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>16.9</b>	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>19.7</b>	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>17.4</b>	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<b>15.6</b>	<0.17
MW-06-100	08/23/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<b>0.98 J</b>	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<b>1.2</b>	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	2/24/2023 - Pace	<b>0.55 J</b>	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	2/24/2023 - ALS	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	<0.45	<0.43	<0.53
MW-07-32	10/09/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/26/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-07-60	09/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/26/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<b>0.80 J</b>	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17

Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-08-27	10/09/20	<0.25	<0.32	<0.27	<0.73	NA	NA	NA	<1.2	<0.26	<0.17
	01/14/21	<0.25	<0.32	<0.27	<0.26	NA	NA	NA	<1.2	<0.26	<0.17
	04/01/21	<0.25	<0.32	<0.27	<0.73	<1.3	<1.7	<0.87	<1.2	<0.26	<0.17
	07/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/26/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17	
MW-09-33	09/02/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-09-60	09/02/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-10-32	09/08/21	8.9	<0.33	<0.29	<1.05	4.6 J	<1.5	<1.2	6.3	<0.32	<0.17
	10/27/21	15.3	<0.33	<0.29	<1.05	22.5	10.6	12.0	11.4	<0.32	<0.17
	01/25/22	19.9	<0.33	<0.29	<1.05	38.1	72.0	16.6	10.2	<0.32	<0.17
	04/20/22	43.3	<0.33	<0.29	<1.05	31.8	21.9	13.2	5.1	<0.32	<0.17
	07/27/22	22.1	0.91 J	<0.29	<1.0	18.8	18.4	11.5	7.1	<0.32	<0.17
	10/25/22	156	0.91 J	<0.29	<1.32	38.5	<1.5	19.9	<1.1	<0.32	<0.17
	01/18/23	17.3	0.68 J	<0.29	<1.05	39.6	9.5	20	3.7 J	<0.32	<0.17

Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-11-32	09/08/21	2.2	<0.33	<0.29	<1.05	6.8	<1.5	2.0 J	<1.1	<0.32	<0.17
	10/27/21	2.0	<0.33	<0.29	<1.05	3.9 J	<1.5	1.6 J	<1.1	0.47 J	<0.17
	01/25/22	1.8	<0.33	<0.29	<1.05	4.2 J	17.2	2.0 J	<1.1	<0.32	<0.17
	04/19/22	2.3	<0.33	<0.29	<1.05	6.5	<1.5	2.5 J	<1.1	<0.32	<0.17
	07/26/22	2.1	<0.33	<0.29	<1.05	4.8 J	<1.5	1.7 J	<1.1	<0.32	<0.17
	10/26/22	1.8	<0.33	<0.29	<1.05	2.2 J	<1.5	1.3 J	<1.1	<0.32	<0.17
	01/18/23	0.51 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-12-31	09/01/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-13-33	09/08/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/27/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	0.40 J	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	0.43
	2/24/2023 - Pace	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	2/24/2023 - ALS	<0.46	<0.34	<0.45	<0.81	<0.63	<0.40	<0.35	<0.45	<0.43	<0.53
MW-14-31	09/07/21	273	0.77 J	3.4	2.09 J	189	2.1 J	30.2	<1.1	<0.32	<0.17
	10/27/21	402	0.78 J	1.3	0.45 J	44.4	2.7 J	10.4	<1.1	<0.32	<0.17
	01/25/22	169	<0.33	0.37 J	0.40 J	69.4	115	25.4	<1.1	<0.32	<0.17
	04/18/22	169	<1.3	1.4 J	<4.2	70.3	8.4J	19.6 J	<4.5	<1.3	<0.70
	07/26/22	84.5	0.34 J	<0.29	0.37 J	54.3	13	23.2	<1.1	<0.32	<0.17
	10/25/22 (c)	157	0.36 J	<0.29	0.50 J	39.2	<1.5	20.7	<1.1	<0.32	<0.17
	01/19/23	118	<0.33	<0.29	0.45 J	8.7	<1.5	7.6	<1.1	<0.32	<0.17



Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Volatile Organic Compounds									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0
MW-15-32	09/02/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/19/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-16-29	09/01/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/25/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/18/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/26/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/19/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-17-20	12/14/21	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/25/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	04/21/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	07/27/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	10/24/22	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
	01/18/23	<0.30	<0.33	<0.29	<1.05	<1.3	<1.5	<1.2	<1.1	<0.32	<0.17
MW-18-31	08/23/22	<b>13,400</b>	133	<b>1,410</b>	211.2 J	445 J	<146	<119	<113	<32.0	<17.4
	10/25/22	<b>16,500</b>	147	<b>6,030</b>	461	785	<146	188 J	<113	<32.0	<17.4
	01/19/23	<b>10,300</b>	146	<b>1,650</b>	506	553	<146	126 J	<113	<32.0	<17.4

Table 2

Historical Groundwater Sampling Results for VOCs  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Volatile Organic Compounds

Well ID	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Cyclohexane (µg/L)	n-Hexane (µg/L)	Methylcyclohexane (µg/L)	Methyl-tert-butyl ether (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)
	Enforcement Standard (a)	5	700	800	2,000	NE	600	NE	60	5	0.2
	Preventive Action Limit (a)	0.5	140	160	400	NE	120	NE	12	0.5	0.02
	Residential Vapor Risk Screening Level (b)	27.2	69.2	35,500	766	1,730	16.6	NE	7,270	5	1.98
	Commercial Vapor Risk Screening Level (b)	119	302	149,000	3,220	7,280	69.5	NE	31,800	5	33.0

General Notes

Shaded = Regulatory exceedance of PAL or ES

Boxed = Regulatory exceedance of residential or commercial VRSL

**Bold = Enforcement Standard exceedance**

*Italics = Preventive 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. June 2021.

b/ WDNR Vapor Risk Screening Level (VRSL) based on U.S. Environmental Protection Agency (EPA) Vapor Intrusion Screening Levels (VISL). February 2022.

In accordance with WDNR Publications RR0136 and RR800, VRSL calculated using EPA VISL Calculator with a Hazard Quotient of 1, Target Risk of 10<sup>-5</sup>,

Attenuation Factor of 0.001, and a site-specific average groundwater temperature of 12.83°C. VRSL for TCE is equal to the ES (5 ug/l).

c/ Duplicate sample results listed for this sample event as primary sample did not have any detected compounds and duplicate results were consistent with historical data.

NA = Not accessible.

NE = Not established.

"<" = Not detected above the reported method detection limit.

ug/L = Micrograms per liter.

Table 3

**Historical Groundwater Sampling Results for Field Parameters  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin**

Field Parameters (Final Reading)										
Well ID	Sample Date	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-01-32	10/09/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	8.25	6.90	0.909	5.2	2.65	12.11	-88	Clear	Mild Odor
	07/08/21	4.2	7.81	0.810	0.0	0.00	16.75	35	Clear	None
	10/26/21	10	7.04	0.655	4.4	0.70	15.33	-59	Clear	Slight Odor
	01/25/22	8	6.59	0.800	0.0	0.00	11.88	-20	Clear	Slight Odor
	04/20/22	15	7.06	0.901	3.9	1.42	12.19	-110	Clear	Slight Odor
	07/27/22	16.5	6.23	0.977	36.7	0.49	20.75	-104	Clear	None
	10/25/22	2.5	6.44	1.01	10.3	0.01	13.06	-107	Clear	None
01/18/23	3.5	6.87	1.140	54.7	2.06	11.09	-47	Clear	None	
MW-01-63	09/08/21	15.6	7.27	0.666	10.8	0.00	16.24	-192	Clear	None
	10/27/21	16.5	7.26	0.662	6.0	0.00	15.06	-168	Clear	None
	01/25/22	14	7.16	0.829	0.0	1.88	11.75	-57	Clear	None
	04/19/22	NA	7.51	0.844	8.3	4.39	13.38	-71	Clear	Slight Odor
	07/27/22	9	6.96	1.08	0.0	0.34	15.34	-119	Clear	None
	10/25/22	8	6.90	0.964	4.2	0.83	12.98	-75	Clear	None
	01/19/23	15	6.72	1.18	0.0	8.90	12.89	-83	Clear	None
MW-02-25	10/08/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	8.85	7.29	0.840	7.3	7.78	4.49	131	Clear	None
	07/08/21	8.4	7.08	0.767	0.0	0.79	13.31	278	Clear	None
	10/25/21	7.75	7.29	0.515	0.0	0.58	15.06	205	Clear	None
	01/24/22	8	7.12	0.756	0.0	0.00	9.64	83	Clear	None
	04/19/22	13.5	7.21	0.858	1.1	5.82	9.92	174	Clear	None
	07/27/22	15	7.23	0.865	1.4	6.09	9.71	183	Clear	None
	10/24/22	6.75	6.98	0.848	0.0	2.11	15.43	156	Clear	None
01/18/23	12	7.34	0.878	1.2	3.72	11.52	145	Clear	None	
MW-02-55	09/08/21	15	7.11	0.934	230	1.35	14.80	-69	Cloudy	None
	10/27/21	24	7.08	1.24	3.1	5.42	13.05	22	Clear	None
	01/24/22	23.5	7.32	1.09	15.5	0.93	10.19	-60	Clear	None
	04/19/22	13	6.73	1.23	4.7	3.17	10.68	3	Clear	None
	07/25/22	21	8.08	1.21	8.4	5.05	14.13	-56	Clear	None
	10/25/22	16.5	6.76	1.14	2.1	4.06	11.09	0	Clear	None
	01/18/23	22	7.42	1.13	60.9	11.04	11.21	-42	Clear	None



Table 3

Historical Groundwater Sampling Results for Field Parameters  
 Line 13 MP312 Valve Site  
 Fort Atkinson, Wisconsin

		Field Parameters (Final Reading)								
Well ID	Sample Date	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-03-25	10/08/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	5	7.20	0.952	3.1	0.00	8.00	146	Clear	None
	07/08/21	11.2	6.75	0.729	40.7	2.45	17.14	170	Clear	None
	10/25/21	11	7.18	0.561	0.0	3.00	13.81	244	Clear	None
	01/24/22	7	6.94	0.860	0.0	0.00	9.12	122	Clear	None
	04/18/22	9	7.21	0.974	1.3	0.46	7.81	202	Clear	None
	07/25/22	6	6.79	0.913	0.0	2.40	13.22	153	Clear	None
	10/24/22	7.5	6.79	0.937	0.0	1.11	15.59	147	Clear	None
01/18/23	11	6.96	1.08	5.1	3.17	9.41	61	Clear	None	
MW-04-29	10/08/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	5.25	6.92	0.878	6.1	6.55	8.58	164	Clear	None
	07/08/21	5.85	5.95	0.734	0.0	4.10	15.12	311	Clear	None
	10/26/21	9	7.10	0.604	13.3	4.69	13.05	177	Clear	None
	01/24/22	6	7.12	0.749	0.0	1.95	8.72	134	Clear	None
	04/18/22	10.5	7.38	0.802	5.5	3.02	8.53	201	Clear	None
	07/26/22	23	6.19	0.87	82.4	5.50	12.09	147	Clear	None
	10/24/22	6.25	6.87	0.773	0.6	2.93	17.39	174	Clear	None
01/18/23	10.5	7.00	0.885	6.4	6.79	9.01	90	Clear	None	
MW-05-30	10/08/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	6	6.77	1.13	10.1	3.47	8.26	160	Clear	None
	07/09/21	7.15	6.61	1.12	0.0	0.45	14.51	113	Clear	None
	09/01/21	13.2	6.70	0.932	2.1	0.85	15.11	140	Clear	None
	10/27/21	10	7.01	0.751	0.0	0.69	15.07	170	Clear	None
	01/25/22	7	6.76	0.986	0.0	0.00	8.99	178	Clear	None
	04/19/22	9	6.95	1.11	6.1	0.00	12.95	188	Clear	None
	07/26/22	7.5	7.24	3.02	0.0	1.49	21.08	61	Clear	None
10/25/22	10.5	6.50	1.18	0.0	0.98	12.12	98	Clear	None	
01/19/23	7.5	5.65	1.44	0.0	2.29	12.49	161	Clear	None	

Table 3

**Historical Groundwater Sampling Results for Field Parameters  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin**

Well ID	Sample Date	Field Parameters (Final Reading)								
		Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-05-60	09/01/21	27.6	7.52	0.611	14.1	0.00	15.45	-530	Clear	None
	10/27/21	11	7.51	0.718	22.9	5.98	13.84	1	Clear	None
	01/25/22	16.5	7.32	0.858	0.0	0.00	11.14	-112	Clear	None
	04/19/22	17	6.76	0.92	0.4	0.88	12.20	63	Clear	None
	07/26/22	30	7.59	2.380	3.4	0.42	17.74	2	Clear	None
	10/25/22	15	6.80	0.97	0.0	0.64	11.62	-15	Clear	None
	01/19/23	12	6.50	1.22	0.0	10.43	11.59	-69	Clear	None
MW-06-32	10/08/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	4.5	6.74	1.18	0.9	0.85	11.37	163	Clear	None
	05/26/21	6.25	6.73	0.991	6.1	0.00	21.41	127	Clear	None
	06/24/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/09/21	7.2	6.35	1.05	0.0	0.00	21.51	324	Clear	None
	08/31/21	13.2	6.66	0.824	3.3	0.00	22.41	149	Clear	None
	10/27/21	10	7.10	0.808	0.0	0.00	13.93	169	Clear	None
	01/24/22	11	6.40	0.939	0.0	0.00	11.09	56	Clear	None
	04/19/22	13.75	6.41	1.06	0.0	0.35	14.46	125	Clear	None
	07/26/22	8	7.48	2.83	0.0	8.52	16.47	23	Clear	None
	10/25/22	11.25	6.47	1.14	0.0	0.56	12.62	-34	Clear	None
	01/18/23	10	6.62	1.18	55.1	3.02	12.95	251	Clear	None
MW-06-60	08/31/21	18	7.32	0.626	9.5	0.14	15.47	-522	Clear	None
	10/27/21	22.5	7.35	0.680	31.0	0.00	14.07	-144	Clear	None
	01/24/22	8	7.24	0.930	0.0	0.00	9.77	-69	Clear	None
	04/19/22	12.5	6.66	1.030	5.9	0.00	12.75	-39	Clear	None
	07/26/22	7.5	7.70	2.61	0.0	0.95	17.96	-69	Clear	None
	10/25/22	9	6.65	0.93	4.1	0.00	12.18	-74	Clear	None
	01/19/23	13.5	6.47	1.26	0.0	11.02	10.63	-105	Clear	None
MW-06-100	08/23/22	6	7.42	1.01	26.4	0.00	17.63	-554	Clear	None
	10/25/22	3.75	7.20	1.11	0.7	1.09	10.88	-191	Clear	None
	01/18/23	9	7.15	1.38	0.0	9.64	11.93	-309	Clear	Slight Odor
	02/24/23	7.5	7.93	1.11	0	0.33	11.85	-303	Clear	None

Table 3

Historical Groundwater Sampling Results for Field Parameters  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Field Parameters (Final Reading)										
Well ID	Sample Date	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-07-32	10/09/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	13	7.44	0.905	17.0	12.90	9.76	189	Clear	None
	07/08/21	6.75	6.90	1.03	42.2	5.58	12.89	163	Clear	None
	10/26/21	11.5	7.15	0.721	9.3	6.29	13.09	159	Clear	None
	01/26/22	12	6.99	1.02	4.1	10.49	6.97	125	Clear	None
	04/19/22	24	7.12	1.05	15.1	8.25	9.94	210	Clear	None
	07/25/22	34	8.03	1.14	8.4	9.29	11.43	90	Clear	None
	10/25/22	12	6.80	0.94	0	7.60	10.50	100	Clear	None
01/19/23	12	7.16	0.941	7.7	7.93	8.47	90	Clear	None	
MW-07-60	09/08/21	10.5	7.48	0.428	0.0	0.00	14.49	-329	Clear	None
	10/26/21	10	7.61	0.549	0.0	1.00	13.80	-51	Clear	None
	01/26/22	13.5	7.33	0.763	0.0	0.00	7.70	-49	Clear	None
	04/19/22	10.5	7.74	0.717	2.5	0.00	10.18	-105	Clear	None
	07/25/22	15	8.24	0.892	10.3	1.27	13.77	-63	Clear	None
	10/25/22	15	7.03	0.79	3.8	5.11	1.03	-70	Clear	None
	01/19/23	10	7.30	0.845	4.5	3.82	9.92	19	Clear	None
MW-08-27	10/09/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/14/21	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/21	17	7.48	1.12	7.8	3.66	9.30	167	Clear	None
	07/08/21	6	6.82	1.10	0.0	1.10	12.19	263	Clear	None
	10/26/21	10	7.14	0.765	3.5	8.63	14.10	196	Clear	None
	01/25/22	8	6.84	0.985	0.0	1.69	10.03	54	Clear	None
	04/18/22	13.5	7.40	1.14	7.0	4.22	8.12	198	Clear	None
	07/26/22	15	5.73	0.00	501	0.95	16.28	145	Clear	None
	10/26/22	6	6.94	1.110	1	8.23	10.00	158	Clear	None
01/19/23	7.0	6.60	1.28	45.5	2.81	9.70	112	Clear	None	
MW-09-33	09/02/21	12	7.35	1.01	0.0	2.88	15.44	50	Clear	None
	10/27/21	10.5	7.14	0.746	0.2	0.00	12.61	236	Clear	None
	01/26/22	10	7.19	0.971	0.0	2.67	10.42	126	Clear	None
	04/19/22	10.5	7.39	0.938	0.0	4.53	10.84	87	Clear	None
	07/25/22	15	4.55	1.07	0.0	0.20	13.10	214	Clear	None
	10/25/22	11.5	6.50	1.11	0.0	3.91	11.49	182	Clear	None
	01/19/23	8	7.10	1.01	11.9	6.63	10.10	99	Clear	None

Table 3

**Historical Groundwater Sampling Results for Field Parameters  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin**

Well ID	Sample Date	Field Parameters (Final Reading)								
		Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-09-60	09/02/21	18	7.53	0.729	0.0	0.60	15.02	-232	Clear	None
	10/27/21	13.5	7.28	0.611	1.6	0.00	13.09	-39	Clear	None
	01/26/22	19.5	7.09	0.860	0.0	0.57	6.50	24	Clear	None
	04/19/22	13.5	7.63	0.790	3.0	3.03	10.88	27	Clear	None
	07/25/22	19.5	6.30	0.899	20.1	4.00	16.78	132	Clear	None
	10/25/22	22	6.73	0.900	7.1	3.19	11.11	-49	Clear	None
	01/18/23	9	7.11	0.97	8.9	9.20	9.01	92	Clear	None
MW-10-32	09/08/21	10.5	6.93	0.737	0.0	0.00	15.97	-73	Clear	None
	10/27/21	18	6.80	0.918	0.0	1.26	15.43	-43	Clear	None
	01/25/22	7	6.66	0.813	0.0	0.00	10.72	0	Clear	None
	04/20/22	15	6.99	0.909	2.5	0.00	11.25	-66	Clear	None
	07/27/22	12	6.98	0.989	0.0	5.54	15.20	-116	Clear	None
	10/25/22	9.6	6.60	0.936	0.0	0.00	12.75	-106	Clear	None
	01/18/23	8	6.86	1.05	43.2	1.33	11.88	-8	Clear	None
MW-11-32	09/08/21	12	7.09	0.735	0.0	0.00	15.87	-141	Clear	None
	10/27/21	13.5	6.89	1.05	0.0	0.22	14.99	-92	Clear	None
	01/25/22	10	6.69	0.966	0.0	0.00	11.05	-53	Clear	None
	04/19/22	15	7.07	1.01	17.9	1.08	15.28	-116	Clear	None
	07/26/22	16.5	6.41	1.04	148	0.00	18.48	-113	Clear	None
	10/26/22	10.5	6.00	1.21	0	0.00	10.60	-116	Clear	None
	01/18/23	10	6.73	1.15	63	2.21	12.32	-45	Clear	None
MW-12-31	09/01/21	10.8	7.17	0.890	2.5	0.80	16.52	107	Clear	None
	10/25/21	15	6.95	1.09	0.0	3.14	14.30	170	Clear	None
	01/25/22	8	7.23	1.03	0.0	0.00	9.12	136	Clear	None
	04/18/22	10.5	7.42	1.18	3.1	0.33	10.11	198	Clear	None
	07/26/22	5.5	6.66	1.1	129	7.68	18.87	155	Clear	None
	10/24/22	11.5	6.96	1.03	0	5.80	15.06	167	Clear	None
	01/19/23	8	6.57	1.29	44.4	3.82	11.95	133	Clear	None
MW-13-33	09/08/21	19.2	6.17	0.892	0.0	1.11	12.89	-206	Clear	None
	10/27/21	16.5	7.35	0.660	5.1	0.00	13.44	30	Clear	None
	01/25/22	7	7.05	0.829	0.0	2.88	8.51	68	Clear	None
	04/18/22	16.5	7.60	0.795	12.3	5.53	9.35	154	Clear	None
	07/26/22	6	6.07	1.00	0.0	6.03	11.25	181	Clear	None
	10/24/22	11.5	6.87	0.77	1.5	7.85	14.24	177	Clear	None
	01/18/23	11	7.26	0.961	3.1	7.30	10.57	189	Clear	None
	02/24/23	16.5	7.34	0.901	4.0	9.74	10.22	174	Clear	None

Table 3

Historical Groundwater Sampling Results for Field Parameters  
Line 13 MP312 Valve Site  
Fort Atkinson, Wisconsin

Field Parameters (Final Reading)										
Well ID	Sample Date	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
MW-14-31	09/07/21	12	7.02	0.688	0.0	0.00	17.88	-193	Clear	None
	10/27/21	10	7.18	0.635	0.0	0.00	16.59	-45	Clear	None
	01/25/22	8	6.47	0.884	0.0	0.00	10.13	-6	Clear	None
	04/18/22	7.5	7.42	1.01	8.4	0.00	8.45	-91	Clear	None
	07/26/22	10.5	6.80	0.98	0.0	0.00	19.22	-98	Clear	None
	10/25/22 (c)	6	6.43	1.08	0.0	0.08	13.40	-113	Clear	None
	01/19/23	8.75	6.32	1.22	46.6	1.52	14.01	-40	Clear	None
MW-15-32	09/02/21	16.8	7.36	0.890	0.0	1.19	15.78	28	Clear	None
	10/25/21	13.5	7.21	0.623	5.3	0.00	12.35	149	Clear	None
	01/25/22	13.5	7.24	0.833	0.0	0.56	7.30	134	Clear	None
	04/19/22	9	7.44	0.883	0.0	3.09	11.30	90	Clear	None
	07/26/22	9	6.97	1.01	5.2	5.10	14.54	88	Clear	None
	10/24/22	11.5	6.87	0.879	0.8	5.34	12.75	163	Clear	None
	01/18/23	9	7.00	1.05	2.9	10.16	9.95	178	Clear	None
MW-16-29	09/01/21	10.8	7.20	0.776	0.0	0.80	13.24	40	Clear	None
	10/25/21	10.5	7.13	0.631	0.3	0.00	13.56	187	Clear	None
	01/25/22	9	7.20	0.861	0.0	1.90	10.65	123	Clear	None
	04/18/22	10.5	7.42	1.00	1.9	4.57	9.43	199	Clear	None
	07/26/22	4.5	6.53	1.08	0.0	5.99	16.26	156	Clear	None
	10/24/22	7	6.87	0.90	0.0	4.87	17.26	189	Clear	None
	01/19/23	6	6.61	1.28	46.3	4.61	10.80	153	Clear	None
MW-17-20	12/14/21	7.0	6.76	0.750	34.4	1.51	13.56	111	Clear	None
	01/25/22	6.75	7.00	0.664	0.0	1.39	9.76	19	Clear	None
	04/21/22	16.125	7.40	0.779	4.2	7.40	10.98	179	Clear	None
	07/27/22	13.5	6.28	0.767	79.7	4.99	17.63	114	Clear	None
	10/24/22	8.5	7.06	0.714	1.4	3.29	17.35	173	Clear	None
	01/18/23	18.0	7.29	0.742	1.6	9.96	10.59	88	Clear	None
MW-18-31	08/23/22	15.0	7.21	0.911	2.9	4.75	14.28	-294	Clear	None
	10/25/22	9	6.73	0.968	0.0	2.51	11.76	-128	Clear	None
	01/19/23	10.0	6.56	1.070	44.2	1.80	11.33	-87	Clear	None

Acronyms and Abbreviations

L = liter; mS/cm = milliSiemens per centimeter; NTU = Nephelometric Turbidity Units' mg/L = milligrams per liter, mV = millivolts



## ENCLOSURE A – LABORATORY ANALYTICAL RESULTS

March 02, 2023

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

RE: Project: 31406019.705C  
Pace Project No.: 40258680

Dear Timothy Huff:

Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2023. 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

Revised Report: MEK has been added to the compound list.

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: Cal Johnson, WSP USA - MADISON  
Joe Kiel, WSP USA - MADISON



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 31406019.705C

Pace Project No.: 40258680

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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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 31406019.705C  
Pace Project No.: 40258680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40258680001	MW-13-33	Water	02/24/23 11:05	02/27/23 16:00
40258680002	MW-131-33	Water	02/24/23 11:05	02/27/23 16:00
40258680003	MW-06-100	Water	02/24/23 12:10	02/27/23 16:00
40258680004	EB22423A	Water	02/24/23 12:20	02/27/23 16:00
40258680005	TRIP BLANK	Water	02/24/23 00:00	02/27/23 16:00

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### SAMPLE ANALYTE COUNT

Project: 31406019.705C

Pace Project No.: 40258680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40258680001	MW-13-33	EPA 8260	CXJ	69
40258680002	MW-131-33	EPA 8260	CXJ	69
40258680003	MW-06-100	EPA 8260	CXJ	69
40258680004	EB22423A	EPA 8260	CXJ	69
40258680005	TRIP BLANK	EPA 8260	CXJ	69

PASI-G = Pace Analytical Services - Green Bay

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### ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: MW-13-33**      **Lab ID: 40258680001**      Collected: 02/24/23 11:05      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/28/23 18:13	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:13	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/28/23 18:13	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/28/23 18:13	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:13	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/28/23 18:13	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:13	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:13	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/28/23 18:13	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/28/23 18:13	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/28/23 18:13	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/28/23 18:13	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/28/23 18:13	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:13	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/28/23 18:13	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/28/23 18:13	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:13	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:13	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:13	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/28/23 18:13	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/28/23 18:13	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		02/28/23 18:13	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:13	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:13	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		02/28/23 18:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/28/23 18:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/28/23 18:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:13	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/28/23 18:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/28/23 18:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/28/23 18:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:13	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		02/28/23 18:13	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/28/23 18:13	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/28/23 18:13	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/28/23 18:13	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:13	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:13	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/28/23 18:13	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/28/23 18:13	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:13	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:13	108-87-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: MW-13-33**      **Lab ID: 40258680001**      Collected: 02/24/23 11:05      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/28/23 18:13	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/28/23 18:13	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:13	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/28/23 18:13	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/28/23 18:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:13	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/28/23 18:13	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/28/23 18:13	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:13	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/28/23 18:13	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:13	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:13	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		02/28/23 18:13	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:13	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:13	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:13	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/28/23 18:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/28/23 18:13	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/28/23 18:13	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/28/23 18:13	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	92	%	70-130		1		02/28/23 18:13	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		02/28/23 18:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		02/28/23 18:13	2199-69-1	

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### ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: MW-131-33**      **Lab ID: 40258680002**      Collected: 02/24/23 11:05      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/28/23 17:54	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 17:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/28/23 17:54	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/28/23 17:54	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 17:54	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/28/23 17:54	75-35-4	M1,R1
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/28/23 17:54	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/28/23 17:54	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/28/23 17:54	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/28/23 17:54	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/28/23 17:54	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/28/23 17:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/28/23 17:54	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 17:54	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/28/23 17:54	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/28/23 17:54	78-87-5	M1,R1
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 17:54	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 17:54	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/28/23 17:54	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/28/23 17:54	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/28/23 17:54	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		02/28/23 17:54	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 17:54	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 17:54	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		02/28/23 17:54	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 17:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/28/23 17:54	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 17:54	75-27-4	R1
Bromoform	<3.8	ug/L	5.0	3.8	1		02/28/23 17:54	75-25-2	M1,R1
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/28/23 17:54	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/28/23 17:54	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 17:54	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/28/23 17:54	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/28/23 17:54	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/28/23 17:54	74-87-3	R1
Cyclohexane	<1.3	ug/L	5.0	1.3	1		02/28/23 17:54	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/28/23 17:54	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/28/23 17:54	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/28/23 17:54	75-71-8	M1,R1
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 17:54	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 17:54	100-41-4	M1,R1
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/28/23 17:54	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/28/23 17:54	98-82-8	R1
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 17:54	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		02/28/23 17:54	108-87-2	R1

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## ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: MW-131-33**      **Lab ID: 40258680002**      Collected: 02/24/23 11:05      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/28/23 17:54	75-09-2	M1,R1
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/28/23 17:54	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		02/28/23 17:54	100-42-5	R1
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/28/23 17:54	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/28/23 17:54	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/28/23 17:54	79-01-6	M1,R1
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 17:54	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/28/23 17:54	75-01-4	M1,R1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/28/23 17:54	156-59-2	M1,R1
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/28/23 17:54	10061-01-5	R1
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/28/23 17:54	179601-23-1	R1
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 17:54	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		02/28/23 17:54	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		02/28/23 17:54	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 17:54	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/28/23 17:54	95-47-6	R1
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/28/23 17:54	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/28/23 17:54	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/28/23 17:54	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/28/23 17:54	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/28/23 17:54	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	89	%	70-130		1		02/28/23 17:54	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		02/28/23 17:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		02/28/23 17:54	2199-69-1	

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### ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: MW-06-100**      **Lab ID: 40258680003**      Collected: 02/24/23 12:10      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/28/23 18:31	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:31	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/28/23 18:31	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/28/23 18:31	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:31	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/28/23 18:31	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:31	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:31	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/28/23 18:31	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/28/23 18:31	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/28/23 18:31	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/28/23 18:31	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/28/23 18:31	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:31	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/28/23 18:31	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/28/23 18:31	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:31	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:31	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:31	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/28/23 18:31	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/28/23 18:31	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		02/28/23 18:31	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:31	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:31	106-43-4	
Benzene	0.55J	ug/L	1.0	0.30	1		02/28/23 18:31	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/28/23 18:31	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:31	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/28/23 18:31	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:31	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/28/23 18:31	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:31	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/28/23 18:31	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/28/23 18:31	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:31	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		02/28/23 18:31	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/28/23 18:31	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/28/23 18:31	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/28/23 18:31	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:31	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:31	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/28/23 18:31	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/28/23 18:31	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:31	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:31	108-87-2	

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### ANALYTICAL RESULTS

Project: 31406019.705C  
Pace Project No.: 40258680

**Sample: MW-06-100**      **Lab ID: 40258680003**      Collected: 02/24/23 12:10      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/28/23 18:31	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/28/23 18:31	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:31	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:31	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/28/23 18:31	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/28/23 18:31	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:31	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/28/23 18:31	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/28/23 18:31	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:31	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/28/23 18:31	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:31	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:31	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		02/28/23 18:31	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:31	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:31	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:31	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/28/23 18:31	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/28/23 18:31	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/28/23 18:31	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/28/23 18:31	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	91	%	70-130		1		02/28/23 18:31	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		02/28/23 18:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		02/28/23 18:31	2199-69-1	

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### ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: EB22423A**      **Lab ID: 40258680004**      Collected: 02/24/23 12:20      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/28/23 18:50	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:50	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/28/23 18:50	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/28/23 18:50	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:50	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/28/23 18:50	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:50	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:50	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/28/23 18:50	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/28/23 18:50	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/28/23 18:50	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/28/23 18:50	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/28/23 18:50	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:50	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/28/23 18:50	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/28/23 18:50	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:50	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:50	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/28/23 18:50	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/28/23 18:50	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/28/23 18:50	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		02/28/23 18:50	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:50	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 18:50	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		02/28/23 18:50	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:50	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/28/23 18:50	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:50	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/28/23 18:50	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:50	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/28/23 18:50	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:50	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/28/23 18:50	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/28/23 18:50	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:50	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		02/28/23 18:50	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/28/23 18:50	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/28/23 18:50	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/28/23 18:50	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:50	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 18:50	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/28/23 18:50	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/28/23 18:50	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 18:50	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		02/28/23 18:50	108-87-2	

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### ANALYTICAL RESULTS

Project: 31406019.705C  
Pace Project No.: 40258680

**Sample: EB22423A**      **Lab ID: 40258680004**      Collected: 02/24/23 12:20      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/28/23 18:50	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/28/23 18:50	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:50	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/28/23 18:50	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/28/23 18:50	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/28/23 18:50	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 18:50	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/28/23 18:50	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/28/23 18:50	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/28/23 18:50	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/28/23 18:50	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 18:50	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		02/28/23 18:50	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		02/28/23 18:50	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:50	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/28/23 18:50	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/28/23 18:50	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/28/23 18:50	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/28/23 18:50	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/28/23 18:50	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/28/23 18:50	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	91	%	70-130		1		02/28/23 18:50	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		02/28/23 18:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		02/28/23 18:50	2199-69-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 31406019.705C

Pace Project No.: 40258680

**Sample: TRIP BLANK**      **Lab ID: 40258680005**      Collected: 02/24/23 00:00      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/28/23 16:39	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 16:39	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/28/23 16:39	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/28/23 16:39	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/28/23 16:39	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/28/23 16:39	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/28/23 16:39	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/28/23 16:39	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/28/23 16:39	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/28/23 16:39	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/28/23 16:39	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/28/23 16:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/28/23 16:39	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 16:39	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/28/23 16:39	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/28/23 16:39	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 16:39	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 16:39	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/28/23 16:39	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/28/23 16:39	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/28/23 16:39	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		02/28/23 16:39	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 16:39	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/28/23 16:39	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		02/28/23 16:39	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/28/23 16:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/28/23 16:39	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 16:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/28/23 16:39	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/28/23 16:39	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/28/23 16:39	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 16:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/28/23 16:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/28/23 16:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/28/23 16:39	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		02/28/23 16:39	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/28/23 16:39	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/28/23 16:39	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/28/23 16:39	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 16:39	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/28/23 16:39	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/28/23 16:39	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/28/23 16:39	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/28/23 16:39	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		02/28/23 16:39	108-87-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 31406019.705C  
Pace Project No.: 40258680

**Sample: TRIP BLANK**      **Lab ID: 40258680005**      Collected: 02/24/23 00:00      Received: 02/27/23 16:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/28/23 16:39	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/28/23 16:39	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		02/28/23 16:39	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/28/23 16:39	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/28/23 16:39	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/28/23 16:39	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/28/23 16:39	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/28/23 16:39	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/28/23 16:39	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/28/23 16:39	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/28/23 16:39	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/28/23 16:39	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		02/28/23 16:39	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		02/28/23 16:39	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/28/23 16:39	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/28/23 16:39	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/28/23 16:39	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/28/23 16:39	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/28/23 16:39	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/28/23 16:39	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/28/23 16:39	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	110	%	70-130		1		02/28/23 16:39	2037-26-5	HS
4-Bromofluorobenzene (S)	89	%	70-130		1		02/28/23 16:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		02/28/23 16:39	2199-69-1	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 31406019.705C  
Pace Project No.: 40258680

QC Batch: 438790      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV Oxygenates  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40258680001, 40258680002, 40258680003, 40258680004, 40258680005

METHOD BLANK: 2520866      Matrix: Water  
Associated Lab Samples: 40258680001, 40258680002, 40258680003, 40258680004, 40258680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	02/28/23 12:38	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	02/28/23 12:38	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	02/28/23 12:38	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	02/28/23 12:38	
1,1-Dichloroethane	ug/L	<0.30	1.0	02/28/23 12:38	
1,1-Dichloroethene	ug/L	<0.58	1.0	02/28/23 12:38	
1,1-Dichloropropene	ug/L	<0.41	1.0	02/28/23 12:38	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	02/28/23 12:38	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	02/28/23 12:38	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/28/23 12:38	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	02/28/23 12:38	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	02/28/23 12:38	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	02/28/23 12:38	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	02/28/23 12:38	
1,2-Dichloroethane	ug/L	<0.29	1.0	02/28/23 12:38	
1,2-Dichloropropane	ug/L	<0.45	1.0	02/28/23 12:38	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	02/28/23 12:38	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	02/28/23 12:38	
1,3-Dichloropropane	ug/L	<0.30	1.0	02/28/23 12:38	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	02/28/23 12:38	
2,2-Dichloropropane	ug/L	<4.2	5.0	02/28/23 12:38	
2-Butanone (MEK)	ug/L	<6.5	25.0	02/28/23 12:38	
2-Chlorotoluene	ug/L	<0.89	5.0	02/28/23 12:38	
4-Chlorotoluene	ug/L	<0.89	5.0	02/28/23 12:38	
Benzene	ug/L	<0.30	1.0	02/28/23 12:38	
Bromobenzene	ug/L	<0.36	1.0	02/28/23 12:38	
Bromochloromethane	ug/L	<0.36	5.0	02/28/23 12:38	
Bromodichloromethane	ug/L	<0.42	1.0	02/28/23 12:38	
Bromoform	ug/L	<3.8	5.0	02/28/23 12:38	
Bromomethane	ug/L	<1.2	5.0	02/28/23 12:38	
Carbon tetrachloride	ug/L	<0.37	1.0	02/28/23 12:38	
Chlorobenzene	ug/L	<0.86	1.0	02/28/23 12:38	
Chloroethane	ug/L	<1.4	5.0	02/28/23 12:38	
Chloroform	ug/L	<1.2	5.0	02/28/23 12:38	
Chloromethane	ug/L	<1.6	5.0	02/28/23 12:38	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	02/28/23 12:38	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	02/28/23 12:38	
Cyclohexane	ug/L	<1.3	5.0	02/28/23 12:38	
Dibromochloromethane	ug/L	<2.6	5.0	02/28/23 12:38	
Dibromomethane	ug/L	<0.99	5.0	02/28/23 12:38	

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### QUALITY CONTROL DATA

Project: 31406019.705C

Pace Project No.: 40258680

METHOD BLANK: 2520866

Matrix: Water

Associated Lab Samples: 40258680001, 40258680002, 40258680003, 40258680004, 40258680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.46	5.0	02/28/23 12:38	
Diisopropyl ether	ug/L	<1.1	5.0	02/28/23 12:38	
Ethylbenzene	ug/L	<0.33	1.0	02/28/23 12:38	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	02/28/23 12:38	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	02/28/23 12:38	
m&p-Xylene	ug/L	<0.70	2.0	02/28/23 12:38	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	02/28/23 12:38	
Methylcyclohexane	ug/L	<1.2	5.0	02/28/23 12:38	
Methylene Chloride	ug/L	<0.32	5.0	02/28/23 12:38	
n-Butylbenzene	ug/L	<0.86	1.0	02/28/23 12:38	
n-Heptane	ug/L	<1.6	5.0	02/28/23 12:38	
n-Hexane	ug/L	<1.5	5.0	02/28/23 12:38	
n-Propylbenzene	ug/L	<0.35	1.0	02/28/23 12:38	
Naphthalene	ug/L	<1.1	5.0	02/28/23 12:38	
o-Xylene	ug/L	<0.35	1.0	02/28/23 12:38	
p-Isopropyltoluene	ug/L	<1.0	5.0	02/28/23 12:38	
sec-Butylbenzene	ug/L	<0.42	1.0	02/28/23 12:38	
Styrene	ug/L	<0.36	1.0	02/28/23 12:38	
tert-Butylbenzene	ug/L	<0.59	1.0	02/28/23 12:38	
Tetrachloroethene	ug/L	<0.41	1.0	02/28/23 12:38	
Toluene	ug/L	<0.29	1.0	02/28/23 12:38	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	02/28/23 12:38	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	02/28/23 12:38	
Trichloroethene	ug/L	<0.32	1.0	02/28/23 12:38	
Trichlorofluoromethane	ug/L	<0.42	1.0	02/28/23 12:38	
Vinyl chloride	ug/L	<0.17	1.0	02/28/23 12:38	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	02/28/23 12:38	
4-Bromofluorobenzene (S)	%	92	70-130	02/28/23 12:38	
Toluene-d8 (S)	%	96	70-130	02/28/23 12:38	

LABORATORY CONTROL SAMPLE: 2520867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.9	96	70-134	
1,1,1,2-Tetrachloroethane	ug/L	50	39.3	79	69-130	
1,1,2-Trichloroethane	ug/L	50	43.3	87	70-130	
1,1-Dichloroethane	ug/L	50	46.9	94	70-130	
1,1-Dichloroethene	ug/L	50	45.8	92	74-131	
1,2,4-Trichlorobenzene	ug/L	50	44.1	88	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	37.9	76	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	45.4	91	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-137	
1,2-Dichloropropane	ug/L	50	44.7	89	80-121	

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### QUALITY CONTROL DATA

Project: 31406019.705C  
Pace Project No.: 40258680

LABORATORY CONTROL SAMPLE: 2520867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	45.2	90	70-130	
1,4-Dichlorobenzene	ug/L	50	43.7	87	70-130	
Benzene	ug/L	50	48.5	97	70-130	
Bromodichloromethane	ug/L	50	46.3	93	70-130	
Bromoform	ug/L	50	42.1	84	70-130	
Bromomethane	ug/L	50	43.5	87	21-147	
Carbon tetrachloride	ug/L	50	53.0	106	80-146	
Chlorobenzene	ug/L	50	48.3	97	70-130	
Chloroethane	ug/L	50	40.8	82	52-165	
Chloroform	ug/L	50	47.0	94	80-123	
Chloromethane	ug/L	50	33.0	66	51-122	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	70-130	
Cyclohexane	ug/L	50	45.0	90	50-150	
Dibromochloromethane	ug/L	50	46.0	92	70-130	
Dichlorodifluoromethane	ug/L	50	17.6	35	25-121	
Ethylbenzene	ug/L	50	46.9	94	80-120	
Isopropylbenzene (Cumene)	ug/L	50	47.5	95	70-130	
m&p-Xylene	ug/L	100	95.2	95	70-130	
Methyl-tert-butyl ether	ug/L	50	45.2	90	70-130	
Methylcyclohexane	ug/L	50	47.9	96	50-150	
Methylene Chloride	ug/L	50	51.1	102	70-130	
o-Xylene	ug/L	50	46.0	92	70-130	
Styrene	ug/L	50	54.9	110	70-130	
Tetrachloroethene	ug/L	50	50.1	100	70-130	
Toluene	ug/L	50	45.5	91	80-120	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.4	85	70-130	
Trichloroethene	ug/L	50	48.1	96	70-130	
Trichlorofluoromethane	ug/L	50	46.7	93	65-160	
Vinyl chloride	ug/L	50	37.1	74	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			88	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2521059 2521060

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40258680002	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	54.2	50.2	108	100	70-134	8	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	34.8	40.0	70	80	61-135	14	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	43.8	45.7	88	91	70-130	4	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	52.9	55.5	106	111	70-130	5	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	33.7	54.4	67	109	71-130	47	20	M1,R1	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	38.1	46.1	76	92	68-131	19	20		

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: 31406019.705C  
Pace Project No.: 40258680

Parameter	Units	2521059			2521060			% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		40258680002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	32.0	37.4	64	75	51-141	15	20			
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	45.9	46.6	92	93	70-130	2	20			
1,2-Dichlorobenzene	ug/L	<0.33	50	50	40.5	47.8	81	96	70-130	16	20			
1,2-Dichloroethane	ug/L	<0.29	50	50	47.6	45.9	95	92	70-137	4	20			
1,2-Dichloropropane	ug/L	<0.45	50	50	34.3	59.9	69	120	80-121	54	20	M1,R1		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	42.1	47.9	84	96	70-130	13	20			
1,4-Dichlorobenzene	ug/L	<0.89	50	50	39.8	45.4	80	91	70-130	13	20			
Benzene	ug/L	<0.30	50	50	49.8	48.6	100	97	70-130	2	20			
Bromodichloromethane	ug/L	<0.42	50	50	35.9	52.3	72	105	70-130	37	20	R1		
Bromoform	ug/L	<3.8	50	50	34.1	44.5	68	89	70-133	26	20	M1,R1		
Bromomethane	ug/L	<1.2	50	50	46.6	56.4	93	113	21-149	19	22			
Carbon tetrachloride	ug/L	<0.37	50	50	60.5	53.4	121	107	80-146	13	20			
Chlorobenzene	ug/L	<0.86	50	50	43.4	50.9	87	102	70-130	16	20			
Chloroethane	ug/L	<1.4	50	50	50.2	48.4	100	97	52-165	4	20			
Chloroform	ug/L	<1.2	50	50	57.5	50.3	115	101	80-123	13	20			
Chloromethane	ug/L	<1.6	50	50	21.3	27.0	43	54	42-125	24	20	R1		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	99.3	48.5	199	97	70-130	69	20	M1,R1		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	44.1	55.4	88	111	70-130	23	20	R1		
Cyclohexane	ug/L	<1.3	50	50	47.7	44.7	95	89	50-150	6	20			
Dibromochloromethane	ug/L	<2.6	50	50	47.2	49.0	94	98	70-130	4	20			
Dichlorodifluoromethane	ug/L	<0.46	50	50	8.4	11.0	17	22	25-121	27	20	M1,R1		
Ethylbenzene	ug/L	<0.33	50	50	38.7	49.3	77	99	80-121	24	20	M1,R1		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	37.8	49.7	76	99	70-130	27	20	R1		
m&p-Xylene	ug/L	<0.70	100	100	75.7	99.4	76	99	70-130	27	20	R1		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	49.6	51.8	99	104	70-130	5	20			
Methylcyclohexane	ug/L	<1.2	50	50	35.6	64.1	71	128	50-150	57	20	R1		
Methylene Chloride	ug/L	<0.32	50	50	51.4	92.1	103	184	70-130	57	20	M1,R1		
o-Xylene	ug/L	<0.35	50	50	37.0	49.2	74	98	70-130	28	20	R1		
Styrene	ug/L	<0.36	50	50	43.0	57.4	86	115	70-132	29	20	R1		
Tetrachloroethene	ug/L	<0.41	50	50	50.5	52.7	101	105	70-130	4	20			
Toluene	ug/L	<0.29	50	50	43.6	52.8	87	106	80-120	19	20			
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	55.0	62.4	110	125	70-130	12	20			
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	44.2	45.7	88	91	70-130	3	20			
Trichloroethene	ug/L	<0.32	50	50	34.6	56.6	69	113	70-130	48	20	M1,R1		
Trichlorofluoromethane	ug/L	<0.42	50	50	49.1	43.7	98	87	65-160	12	20			
Vinyl chloride	ug/L	<0.17	50	50	25.6	33.0	51	66	60-137	25	20	M1,R1		
1,2-Dichlorobenzene-d4 (S)	%						95	96	70-130					
4-Bromofluorobenzene (S)	%						89	88	70-130					
Toluene-d8 (S)	%						102	109	70-130					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 31406019.705C

Pace Project No.: 40258680

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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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31406019.705C

Pace Project No.: 40258680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40258680001	MW-13-33	EPA 8260	438790		
40258680002	MW-131-33	EPA 8260	438790		
40258680003	MW-06-100	EPA 8260	438790		
40258680004	EB22423A	EPA 8260	438790		
40258680005	TRIP BLANK	EPA 8260	438790		

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: WSP

WO#: 40258680



Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 771402191426

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 - 118 Type of Ice: Wet Blue Dry None  Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr 2.5

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: 2/27/23 Initials: NJK  
 Labeled By Initials: mtf

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+ 2 CC</u>	<u>2/27/23 NJK</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>preserv, pg. #</u>	<u>2/27/23 NJK</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & <u>Signature</u> on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- DI 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.	
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace			
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>002 "D700",</u>	<u>2/27/23 NJK</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>494</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 log in  
 Page 2 of 2



02-Mar-2023

Tim Huff  
WSP USA Corp.  
5957 McKee Road, Suite 7  
Fitchburg, WI 53719

Re: **31406019.705C**

Work Order: **23021990**

Dear Tim,

ALS Environmental received 4 samples on 27-Feb-2023 09:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 22.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



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**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Work Order:** 23021990

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
23021990-01	MW-13-33	Groundwater		2/24/2023 11:05	2/27/2023 21:30	<input type="checkbox"/>
23021990-02	MW-131-33	Groundwater		2/24/2023 11:05	2/27/2023 21:30	<input type="checkbox"/>
23021990-03	MW-06-100	Groundwater		2/24/2023 12:10	2/27/2023 21:30	<input type="checkbox"/>
23021990-04	EB22423A	Water		2/24/2023 12:20	2/27/2023 21:30	<input type="checkbox"/>

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**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Work Order:** 23021990

---

**Case Narrative**

Samples for the above noted Work Order were received on 02/27/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

No other deviations or anomalies were noted.

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**WorkOrder:** 23021990

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

# ALS Group, USA

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** MW-13-33  
**Collection Date:** 2/24/2023 11:05 AM

**Work Order:** 23021990  
**Lab ID:** 23021990-01  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260C		Analyst: NAD		
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 15:15
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	2/28/2023 15:15
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 15:15
1,1,2-Trichlorotrifluoroethane	U		0.52	1.7	µg/L	1	2/28/2023 15:15
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	2/28/2023 15:15
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	2/28/2023 15:15
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	2/28/2023 15:15
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	2/28/2023 15:15
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	2/28/2023 15:15
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	2/28/2023 15:15
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	2/28/2023 15:15
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	2/28/2023 15:15
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	2/28/2023 15:15
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	2/28/2023 15:15
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	2/28/2023 15:15
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	2/28/2023 15:15
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	2/28/2023 15:15
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	2/28/2023 15:15
2-Butanone	U		0.52	1.7	µg/L	1	2/28/2023 15:15
2-Hexanone	U		0.59	2.0	µg/L	1	2/28/2023 15:15
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	2/28/2023 15:15
Acetone	U		6.2	21	µg/L	1	2/28/2023 15:15
Benzene	U		0.46	1.5	µg/L	1	2/28/2023 15:15
Bromochloromethane	U		0.45	1.5	µg/L	1	2/28/2023 15:15
Bromodichloromethane	U		0.49	1.6	µg/L	1	2/28/2023 15:15
Bromoform	U		0.56	1.9	µg/L	1	2/28/2023 15:15
Bromomethane	U		0.90	3.0	µg/L	1	2/28/2023 15:15
Carbon disulfide	U		0.49	1.6	µg/L	1	2/28/2023 15:15
Carbon tetrachloride	U		0.40	1.4	µg/L	1	2/28/2023 15:15
Chlorobenzene	U		0.40	1.3	µg/L	1	2/28/2023 15:15
Chloroethane	U		0.68	2.3	µg/L	1	2/28/2023 15:15
Chloroform	U		0.46	1.5	µg/L	1	2/28/2023 15:15
Chloromethane	U		0.83	2.8	µg/L	1	2/28/2023 15:15
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	2/28/2023 15:15
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	2/28/2023 15:15
Cyclohexane	U		0.63	2.1	µg/L	1	2/28/2023 15:15
Dibromochloromethane	U		0.40	1.3	µg/L	1	2/28/2023 15:15
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	2/28/2023 15:15

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** MW-13-33  
**Collection Date:** 2/24/2023 11:05 AM

**Work Order:** 23021990  
**Lab ID:** 23021990-01  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.1	µg/L	1	2/28/2023 15:15
Isopropylbenzene	U		0.35	1.2	µg/L	1	2/28/2023 15:15
m,p-Xylene	U		0.81	2.7	µg/L	1	2/28/2023 15:15
Methyl acetate	U		0.59	2.0	µg/L	1	2/28/2023 15:15
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	2/28/2023 15:15
Methylcyclohexane	U		0.35	1.2	µg/L	1	2/28/2023 15:15
Methylene chloride	U		0.86	2.9	µg/L	1	2/28/2023 15:15
n-Heptane	U		0.66	2.2	µg/L	1	2/28/2023 15:15
n-Hexane	U		0.40	1.3	µg/L	1	2/28/2023 15:15
o-Xylene	U		0.31	1.0	µg/L	1	2/28/2023 15:15
Styrene	U		0.33	1.1	µg/L	1	2/28/2023 15:15
Tetrachloroethene	U		0.39	1.3	µg/L	1	2/28/2023 15:15
Toluene	U		0.45	1.5	µg/L	1	2/28/2023 15:15
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	2/28/2023 15:15
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	2/28/2023 15:15
Trichloroethene	U		0.43	1.4	µg/L	1	2/28/2023 15:15
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	2/28/2023 15:15
Vinyl chloride	U		0.53	1.8	µg/L	1	2/28/2023 15:15
Xylenes, Total	U		0.81	4.4	µg/L	1	2/28/2023 15:15
Surr: 1,2-Dichloroethane-d4	103			80-120	%REC	1	2/28/2023 15:15
Surr: 4-Bromofluorobenzene	99.6			80-120	%REC	1	2/28/2023 15:15
Surr: Dibromofluoromethane	95.6			80-120	%REC	1	2/28/2023 15:15
Surr: Toluene-d8	95.0			80-120	%REC	1	2/28/2023 15:15

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 02-Mar-23

Client: WSP USA Corp.  
 Project: 31406019.705C  
 Sample ID: MW-131-33  
 Collection Date: 2/24/2023 11:05 AM

Work Order: 23021990  
 Lab ID: 23021990-02  
 Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 15:39
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	2/28/2023 15:39
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 15:39
1,1,2-Trichlorotrifluoroethane	U		0.52	1.7	µg/L	1	2/28/2023 15:39
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	2/28/2023 15:39
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	2/28/2023 15:39
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	2/28/2023 15:39
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	2/28/2023 15:39
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	2/28/2023 15:39
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	2/28/2023 15:39
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	2/28/2023 15:39
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	2/28/2023 15:39
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	2/28/2023 15:39
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	2/28/2023 15:39
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	2/28/2023 15:39
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	2/28/2023 15:39
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	2/28/2023 15:39
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	2/28/2023 15:39
2-Butanone	U		0.52	1.7	µg/L	1	2/28/2023 15:39
2-Hexanone	U		0.59	2.0	µg/L	1	2/28/2023 15:39
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	2/28/2023 15:39
Acetone	U		6.2	21	µg/L	1	2/28/2023 15:39
Benzene	U		0.46	1.5	µg/L	1	2/28/2023 15:39
Bromochloromethane	U		0.45	1.5	µg/L	1	2/28/2023 15:39
Bromodichloromethane	U		0.49	1.6	µg/L	1	2/28/2023 15:39
Bromoform	U		0.56	1.9	µg/L	1	2/28/2023 15:39
Bromomethane	U		0.90	3.0	µg/L	1	2/28/2023 15:39
Carbon disulfide	U		0.49	1.6	µg/L	1	2/28/2023 15:39
Carbon tetrachloride	U		0.40	1.4	µg/L	1	2/28/2023 15:39
Chlorobenzene	U		0.40	1.3	µg/L	1	2/28/2023 15:39
Chloroethane	U		0.68	2.3	µg/L	1	2/28/2023 15:39
Chloroform	U		0.46	1.5	µg/L	1	2/28/2023 15:39
Chloromethane	U		0.83	2.8	µg/L	1	2/28/2023 15:39
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	2/28/2023 15:39
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	2/28/2023 15:39
Cyclohexane	U		0.63	2.1	µg/L	1	2/28/2023 15:39
Dibromochloromethane	U		0.40	1.3	µg/L	1	2/28/2023 15:39
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	2/28/2023 15:39

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** MW-131-33  
**Collection Date:** 2/24/2023 11:05 AM

**Work Order:** 23021990  
**Lab ID:** 23021990-02  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.1	µg/L	1	2/28/2023 15:39
Isopropylbenzene	U		0.35	1.2	µg/L	1	2/28/2023 15:39
m,p-Xylene	U		0.81	2.7	µg/L	1	2/28/2023 15:39
Methyl acetate	U		0.59	2.0	µg/L	1	2/28/2023 15:39
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	2/28/2023 15:39
Methylcyclohexane	U		0.35	1.2	µg/L	1	2/28/2023 15:39
Methylene chloride	U		0.86	2.9	µg/L	1	2/28/2023 15:39
n-Heptane	U		0.66	2.2	µg/L	1	2/28/2023 15:39
n-Hexane	U		0.40	1.3	µg/L	1	2/28/2023 15:39
o-Xylene	U		0.31	1.0	µg/L	1	2/28/2023 15:39
Styrene	U		0.33	1.1	µg/L	1	2/28/2023 15:39
Tetrachloroethene	U		0.39	1.3	µg/L	1	2/28/2023 15:39
Toluene	U		0.45	1.5	µg/L	1	2/28/2023 15:39
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	2/28/2023 15:39
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	2/28/2023 15:39
Trichloroethene	U		0.43	1.4	µg/L	1	2/28/2023 15:39
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	2/28/2023 15:39
Vinyl chloride	U		0.53	1.8	µg/L	1	2/28/2023 15:39
Xylenes, Total	U		0.81	4.4	µg/L	1	2/28/2023 15:39
Surr: 1,2-Dichloroethane-d4	105			80-120	%REC	1	2/28/2023 15:39
Surr: 4-Bromofluorobenzene	96.2			80-120	%REC	1	2/28/2023 15:39
Surr: Dibromofluoromethane	96.8			80-120	%REC	1	2/28/2023 15:39
Surr: Toluene-d8	93.6			80-120	%REC	1	2/28/2023 15:39

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group, USA

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** MW-06-100  
**Collection Date:** 2/24/2023 12:10 PM

**Work Order:** 23021990  
**Lab ID:** 23021990-03  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>			Analyst: <b>NAD</b>	
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 16:04
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	2/28/2023 16:04
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 16:04
1,1,2-Trichlorotrifluoroethane	U		0.52	1.7	µg/L	1	2/28/2023 16:04
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	2/28/2023 16:04
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	2/28/2023 16:04
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	2/28/2023 16:04
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	2/28/2023 16:04
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	2/28/2023 16:04
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	2/28/2023 16:04
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	2/28/2023 16:04
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	2/28/2023 16:04
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	2/28/2023 16:04
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	2/28/2023 16:04
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	2/28/2023 16:04
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	2/28/2023 16:04
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	2/28/2023 16:04
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	2/28/2023 16:04
<b>2-Butanone</b>	<b>0.99</b>	<b>J</b>	<b>0.52</b>	<b>1.7</b>	<b>µg/L</b>	1	2/28/2023 16:04
2-Hexanone	U		0.59	2.0	µg/L	1	2/28/2023 16:04
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	2/28/2023 16:04
Acetone	U		6.2	21	µg/L	1	2/28/2023 16:04
Benzene	U		0.46	1.5	µg/L	1	2/28/2023 16:04
Bromochloromethane	U		0.45	1.5	µg/L	1	2/28/2023 16:04
Bromodichloromethane	U		0.49	1.6	µg/L	1	2/28/2023 16:04
Bromoform	U		0.56	1.9	µg/L	1	2/28/2023 16:04
Bromomethane	U		0.90	3.0	µg/L	1	2/28/2023 16:04
Carbon disulfide	U		0.49	1.6	µg/L	1	2/28/2023 16:04
Carbon tetrachloride	U		0.40	1.4	µg/L	1	2/28/2023 16:04
Chlorobenzene	U		0.40	1.3	µg/L	1	2/28/2023 16:04
Chloroethane	U		0.68	2.3	µg/L	1	2/28/2023 16:04
Chloroform	U		0.46	1.5	µg/L	1	2/28/2023 16:04
Chloromethane	U		0.83	2.8	µg/L	1	2/28/2023 16:04
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	2/28/2023 16:04
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	2/28/2023 16:04
Cyclohexane	U		0.63	2.1	µg/L	1	2/28/2023 16:04
Dibromochloromethane	U		0.40	1.3	µg/L	1	2/28/2023 16:04
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	2/28/2023 16:04

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** MW-06-100  
**Collection Date:** 2/24/2023 12:10 PM

**Work Order:** 23021990  
**Lab ID:** 23021990-03  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.1	µg/L	1	2/28/2023 16:04
Isopropylbenzene	U		0.35	1.2	µg/L	1	2/28/2023 16:04
m,p-Xylene	U		0.81	2.7	µg/L	1	2/28/2023 16:04
Methyl acetate	U		0.59	2.0	µg/L	1	2/28/2023 16:04
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	2/28/2023 16:04
Methylcyclohexane	U		0.35	1.2	µg/L	1	2/28/2023 16:04
Methylene chloride	U		0.86	2.9	µg/L	1	2/28/2023 16:04
n-Heptane	U		0.66	2.2	µg/L	1	2/28/2023 16:04
n-Hexane	U		0.40	1.3	µg/L	1	2/28/2023 16:04
o-Xylene	U		0.31	1.0	µg/L	1	2/28/2023 16:04
Styrene	U		0.33	1.1	µg/L	1	2/28/2023 16:04
Tetrachloroethene	U		0.39	1.3	µg/L	1	2/28/2023 16:04
Toluene	U		0.45	1.5	µg/L	1	2/28/2023 16:04
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	2/28/2023 16:04
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	2/28/2023 16:04
Trichloroethene	U		0.43	1.4	µg/L	1	2/28/2023 16:04
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	2/28/2023 16:04
Vinyl chloride	U		0.53	1.8	µg/L	1	2/28/2023 16:04
Xylenes, Total	U		0.81	4.4	µg/L	1	2/28/2023 16:04
Surr: 1,2-Dichloroethane-d4	106			80-120	%REC	1	2/28/2023 16:04
Surr: 4-Bromofluorobenzene	100			80-120	%REC	1	2/28/2023 16:04
Surr: Dibromofluoromethane	98.5			80-120	%REC	1	2/28/2023 16:04
Surr: Toluene-d8	97.2			80-120	%REC	1	2/28/2023 16:04

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** EB22423A  
**Collection Date:** 2/24/2023 12:20 PM

**Work Order:** 23021990  
**Lab ID:** 23021990-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: SW8260C			Analyst: NAD	
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 14:51
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	2/28/2023 14:51
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	2/28/2023 14:51
1,1,2-Trichlorotrifluoroethane	U		0.52	1.7	µg/L	1	2/28/2023 14:51
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	2/28/2023 14:51
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	2/28/2023 14:51
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	2/28/2023 14:51
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	2/28/2023 14:51
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	2/28/2023 14:51
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	2/28/2023 14:51
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	2/28/2023 14:51
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	2/28/2023 14:51
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	2/28/2023 14:51
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	2/28/2023 14:51
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	2/28/2023 14:51
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	2/28/2023 14:51
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	2/28/2023 14:51
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	2/28/2023 14:51
<b>2-Butanone</b>	<b>1.9</b>		<b>0.52</b>	<b>1.7</b>	<b>µg/L</b>	1	2/28/2023 14:51
2-Hexanone	U		0.59	2.0	µg/L	1	2/28/2023 14:51
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	2/28/2023 14:51
Acetone	U		6.2	21	µg/L	1	2/28/2023 14:51
Benzene	U		0.46	1.5	µg/L	1	2/28/2023 14:51
Bromochloromethane	U		0.45	1.5	µg/L	1	2/28/2023 14:51
Bromodichloromethane	U		0.49	1.6	µg/L	1	2/28/2023 14:51
Bromoform	U		0.56	1.9	µg/L	1	2/28/2023 14:51
Bromomethane	U		0.90	3.0	µg/L	1	2/28/2023 14:51
Carbon disulfide	U		0.49	1.6	µg/L	1	2/28/2023 14:51
Carbon tetrachloride	U		0.40	1.4	µg/L	1	2/28/2023 14:51
Chlorobenzene	U		0.40	1.3	µg/L	1	2/28/2023 14:51
Chloroethane	U		0.68	2.3	µg/L	1	2/28/2023 14:51
Chloroform	U		0.46	1.5	µg/L	1	2/28/2023 14:51
Chloromethane	U		0.83	2.8	µg/L	1	2/28/2023 14:51
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	2/28/2023 14:51
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	2/28/2023 14:51
Cyclohexane	U		0.63	2.1	µg/L	1	2/28/2023 14:51
Dibromochloromethane	U		0.40	1.3	µg/L	1	2/28/2023 14:51
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	2/28/2023 14:51

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 02-Mar-23

**Client:** WSP USA Corp.  
**Project:** 31406019.705C  
**Sample ID:** EB22423A  
**Collection Date:** 2/24/2023 12:20 PM

**Work Order:** 23021990  
**Lab ID:** 23021990-04  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.1	µg/L	1	2/28/2023 14:51
Isopropylbenzene	U		0.35	1.2	µg/L	1	2/28/2023 14:51
m,p-Xylene	U		0.81	2.7	µg/L	1	2/28/2023 14:51
Methyl acetate	U		0.59	2.0	µg/L	1	2/28/2023 14:51
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	2/28/2023 14:51
Methylcyclohexane	U		0.35	1.2	µg/L	1	2/28/2023 14:51
Methylene chloride	U		0.86	2.9	µg/L	1	2/28/2023 14:51
n-Heptane	U		0.66	2.2	µg/L	1	2/28/2023 14:51
n-Hexane	U		0.40	1.3	µg/L	1	2/28/2023 14:51
o-Xylene	U		0.31	1.0	µg/L	1	2/28/2023 14:51
Styrene	U		0.33	1.1	µg/L	1	2/28/2023 14:51
Tetrachloroethene	U		0.39	1.3	µg/L	1	2/28/2023 14:51
Toluene	U		0.45	1.5	µg/L	1	2/28/2023 14:51
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	2/28/2023 14:51
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	2/28/2023 14:51
Trichloroethene	U		0.43	1.4	µg/L	1	2/28/2023 14:51
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	2/28/2023 14:51
Vinyl chloride	U		0.53	1.8	µg/L	1	2/28/2023 14:51
Xylenes, Total	U		0.81	4.4	µg/L	1	2/28/2023 14:51
Surr: 1,2-Dichloroethane-d4	103			80-120	%REC	1	2/28/2023 14:51
Surr: 4-Bromofluorobenzene	98.6			80-120	%REC	1	2/28/2023 14:51
Surr: Dibromofluoromethane	93.7			80-120	%REC	1	2/28/2023 14:51
Surr: Toluene-d8	91.7			80-120	%REC	1	2/28/2023 14:51

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Client: WSP USA Corp.  
 Work Order: 23021990  
 Project: 31406019.705C

**QC BATCH REPORT**

Batch ID: **R365302w** Instrument ID **VMS12** Method: **SW8260C**

MBLK		Sample ID: 12V-BLKW1-230228-R365302w			Units: µg/L		Analysis Date: 2/28/2023 02:03 PM			
Client ID:		Run ID: VMS12_230228A			SeqNo: 9315025		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.5								
1,1,2,2-Tetrachloroethane	U	1.3								
1,1,2-Trichloroethane	U	1.5								
1,1,2-Trichlorotrifluoroethane	U	1.7								
1,1-Dichloroethane	U	1.5								
1,1-Dichloroethene	U	1.4								
1,2,3-Trichlorobenzene	U	1.4								
1,2,3-Trichloropropane	U	1.3								
1,2,4-Trichlorobenzene	U	1.5								
1,2,4-Trimethylbenzene	U	1.5								
1,2-Dibromo-3-chloropropane	U	1.4								
1,2-Dibromoethane	U	1.4								
1,2-Dichlorobenzene	U	1.1								
1,2-Dichloroethane	U	1.4								
1,2-Dichloropropane	U	1.6								
1,3,5-Trimethylbenzene	U	2.2								
1,3-Dichlorobenzene	U	1.1								
1,4-Dichlorobenzene	U	1.2								
2-Butanone	U	1.7								
2-Hexanone	U	2.0								
4-Methyl-2-pentanone	U	1.7								
Acetone	U	21								
Benzene	U	1.5								
Bromochloromethane	U	1.5								
Bromodichloromethane	U	1.6								
Bromoform	U	1.9								
Bromomethane	U	3.0								
Carbon disulfide	U	1.6								
Carbon tetrachloride	U	1.4								
Chlorobenzene	U	1.3								
Chloroethane	U	2.3								
Chloroform	U	1.5								
Chloromethane	U	2.8								
cis-1,2-Dichloroethene	U	1.4								
cis-1,3-Dichloropropene	U	1.9								
Cyclohexane	U	2.1								
Dibromochloromethane	U	1.3								
Dichlorodifluoromethane	U	2.3								
Ethylbenzene	U	1.1								
Isopropylbenzene	U	1.2								
m,p-Xylene	U	2.7								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** WSP USA Corp.  
**Work Order:** 23021990  
**Project:** 31406019.705C

## QC BATCH REPORT

Batch ID: <b>R365302w</b>	Instrument ID <b>VMS12</b>	Method: <b>SW8260C</b>					
Methyl acetate	U	2.0					
Methyl tert-butyl ether	U	1.5					
Methylcyclohexane	U	1.2					
Methylene chloride	U	2.9					
n-Heptane	U	2.2					
n-Hexane	U	1.3					
o-Xylene	U	1.0					
Styrene	U	1.1					
Tetrachloroethene	U	1.3					
Toluene	U	1.5					
trans-1,2-Dichloroethene	U	1.6					
trans-1,3-Dichloropropene	U	2.7					
Trichloroethene	U	1.4					
Trichlorofluoromethane	U	1.7					
Vinyl chloride	U	1.8					
Xylenes, Total	U	4.4					
<i>Surr: 1,2-Dichloroethane-d4</i>	21.23	0	20	0	106	80-120	0
<i>Surr: 4-Bromofluorobenzene</i>	20.43	0	20	0	102	80-120	0
<i>Surr: Dibromofluoromethane</i>	19.53	0	20	0	97.6	80-120	0
<i>Surr: Toluene-d8</i>	18.92	0	20	0	94.6	80-120	0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.  
 Work Order: 23021990  
 Project: 31406019.705C

# QC BATCH REPORT

Batch ID: **R365302w** Instrument ID **VMS12** Method: **SW8260C**

LCS		Sample ID: 12V-LCSW1-230228-R365302w				Units: µg/L		Analysis Date: 2/28/2023 12:51 PM		
Client ID:		Run ID: VMS12_230228A		SeqNo: 9315024		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.67	1.5	20	0	103	75-119	0			
1,1,1,2-Tetrachloroethane	19.98	1.3	20	0	99.9	80-123	0			
1,1,2-Trichloroethane	18.86	1.5	20	0	94.3	83-118	0			
1,1,2-Trichlorotrifluoroethane	22.28	1.7	20	0	111	64-133	0			
1,1-Dichloroethane	21.77	1.5	20	0	109	73-122	0			
1,1-Dichloroethene	21.53	1.4	20	0	108	66-131	0			
1,2,3-Trichlorobenzene	21.05	1.4	20	0	105	65-140	0			
1,2,3-Trichloropropane	20.81	1.3	20	0	104	78-119	0			
1,2,4-Trichlorobenzene	21.47	1.5	20	0	107	73-127	0			
1,2,4-Trimethylbenzene	20.41	1.5	20	0	102	74-118	0			
1,2-Dibromo-3-chloropropane	18.65	1.4	20	0	93.2	52-141	0			
1,2-Dibromoethane	19.86	1.4	20	0	99.3	60-159	0			
1,2-Dichlorobenzene	19.62	1.1	20	0	98.1	80-119	0			
1,2-Dichloroethane	21.56	1.4	20	0	108	78-121	0			
1,2-Dichloropropane	20.71	1.6	20	0	104	78-120	0			
1,3,5-Trimethylbenzene	20.93	2.2	20	0	105	76-120	0			
1,3-Dichlorobenzene	20.67	1.1	20	0	103	80-120	0			
1,4-Dichlorobenzene	19.97	1.2	20	0	99.8	81-119	0			
2-Butanone	20.44	1.7	20	0	102	69-147	0			
2-Hexanone	21.58	2.0	20	0	108	67-140	0			
4-Methyl-2-pentanone	26.76	1.7	20	0	134	68-199	0			
Acetone	19.15	21	20	0	95.8	70-166	0			J
Benzene	22.15	1.5	20	0	111	78-120	0			
Bromochloromethane	21.84	1.5	20	0	109	70-125	0			
Bromodichloromethane	20.92	1.6	20	0	105	73-126	0			
Bromoform	17.22	1.9	20	0	86.1	60-124	0			
Bromomethane	18.65	3.0	20	0	93.2	20-183	0			
Carbon disulfide	18.45	1.6	20	0	92.2	67-159	0			
Carbon tetrachloride	21.36	1.4	20	0	107	69-124	0			
Chlorobenzene	20.16	1.3	20	0	101	80-118	0			
Chloroethane	16.59	2.3	20	0	83	35-136	0			
Chloroform	21.39	1.5	20	0	107	75-119	0			
Chloromethane	14.32	2.8	20	0	71.6	26-117	0			
cis-1,2-Dichloroethene	22.06	1.4	20	0	110	75-123	0			
cis-1,3-Dichloropropene	21.23	1.9	20	0	106	69-120	0			
Cyclohexane	19.94	2.1	20	0	99.7	66-128	0			
Dibromochloromethane	16.15	1.3	20	0	80.8	63-117	0			
Dichlorodifluoromethane	17.63	2.3	20	0	88.2	36-133	0			
Ethylbenzene	20.64	1.1	20	0	103	76-116	0			
Isopropylbenzene	20.73	1.2	20	0	104	77-118	0			
m,p-Xylene	42.53	2.7	40	0	106	76-119	0			
Methyl tert-butyl ether	21.79	1.5	20	0	109	77-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** WSP USA Corp.  
**Work Order:** 23021990  
**Project:** 31406019.705C

## QC BATCH REPORT

Batch ID: <b>R365302w</b>	Instrument ID <b>VMS12</b>		Method: <b>SW8260C</b>					
Methylcyclohexane	21.3	1.2	20	0	106	66-125	0	
Methylene chloride	19.08	2.9	20	0	95.4	68-125	0	
o-Xylene	21.06	1.0	20	0	105	77-116	0	
Styrene	20.34	1.1	20	0	102	76-123	0	
Tetrachloroethene	21.35	1.3	20	0	107	80-124	0	
Toluene	20.74	1.5	20	0	104	78-116	0	
trans-1,2-Dichloroethene	20.86	1.6	20	0	104	73-124	0	
trans-1,3-Dichloropropene	18.73	2.7	20	0	93.6	67-118	0	
Trichloroethene	21.25	1.4	20	0	106	75-122	0	
Trichlorofluoromethane	17.95	1.7	20	0	89.8	52-115	0	
Vinyl chloride	16.89	1.8	20	0	84.4	49-122	0	
Xylenes, Total	63.59	4.4	60	0	106	77-119	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.2	0	20	0	101	80-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.87	0	20	0	104	80-120	0	
<i>Surr: Dibromofluoromethane</i>	20.72	0	20	0	104	80-120	0	
<i>Surr: Toluene-d8</i>	19.39	0	20	0	97	80-120	0	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: WSP USA Corp.  
 Work Order: 23021990  
 Project: 31406019.705C

# QC BATCH REPORT

Batch ID: **R365302w** Instrument ID **VMS12** Method: **SW8260C**

MS				Sample ID: <b>23021840-02A MS</b>		Units: <b>µg/L</b>		Analysis Date: <b>2/28/2023 10:28 PM</b>		
Client ID:		Run ID: <b>VMS12_230228A</b>		SeqNo: <b>9315031</b>		Prep Date:		DF: <b>10</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	194.3	15	200	0	97.2	75-119	0			
1,1,2,2-Tetrachloroethane	179.6	13	200	0	89.8	80-123	0			
1,1,2-Trichloroethane	184.9	15	200	0	92.4	83-118	0			
1,1,2-Trichlorotrifluoroethane	229	17	200	0	114	64-133	0			
1,1-Dichloroethane	204.9	15	200	0	102	73-122	0			
1,1-Dichloroethene	226.1	14	200	0	113	66-131	0			
1,2,3-Trichlorobenzene	112.3	14	200	0	56.2	65-140	0			S
1,2,3-Trichloropropane	195.9	13	200	0	98	78-119	0			
1,2,4-Trichlorobenzene	155.7	15	200	0	77.8	73-127	0			
1,2,4-Trimethylbenzene	192.5	15	200	0	96.2	74-118	0			
1,2-Dibromo-3-chloropropane	151.1	14	200	0	75.6	52-141	0			
1,2-Dibromoethane	185.3	14	200	0	92.6	60-159	0			
1,2-Dichlorobenzene	188.4	11	200	0	94.2	80-119	0			
1,2-Dichloroethane	214.4	14	200	0	107	78-121	0			
1,2-Dichloropropane	201.8	16	200	0	101	78-120	0			
1,3,5-Trimethylbenzene	190.2	22	200	0	95.1	76-120	0			
1,3-Dichlorobenzene	189.7	11	200	0	94.8	80-120	0			
1,4-Dichlorobenzene	184.3	12	200	0	92.2	81-119	0			
2-Butanone	197.6	17	200	0	98.8	69-147	0			
2-Hexanone	208.9	20	200	0	104	67-140	0			
4-Methyl-2-pentanone	248.9	17	200	0	124	68-199	0			
Acetone	235	210	200	0	118	70-166	0			
Benzene	206.6	15	200	0	103	78-120	0			
Bromochloromethane	207.9	15	200	0	104	70-125	0			
Bromodichloromethane	193.7	16	200	0	96.8	73-126	0			
Bromoform	146.6	19	200	0	73.3	60-124	0			
Bromomethane	91.4	30	200	0	45.7	20-183	0			
Carbon disulfide	169.1	16	200	0	84.6	67-159	0			
Carbon tetrachloride	193.4	14	200	0	96.7	69-124	0			
Chlorobenzene	198.4	13	200	0	99.2	80-118	0			
Chloroethane	150.6	23	200	0	75.3	35-136	0			
Chloroform	214	15	200	6.3	104	75-119	0			
Chloromethane	125.5	28	200	0	62.8	26-117	0			
cis-1,2-Dichloroethene	228.9	14	200	20.1	104	75-123	0			
cis-1,3-Dichloropropene	187	19	200	0	93.5	69-120	0			
Cyclohexane	201.9	21	200	0	101	66-128	0			
Dibromochloromethane	141.4	13	200	0	70.7	63-117	0			
Dichlorodifluoromethane	170.7	23	200	0	85.4	36-133	0			
Ethylbenzene	201.9	11	200	0	101	76-116	0			
Isopropylbenzene	192.5	12	200	0	96.2	77-118	0			
m,p-Xylene	406.7	27	400	0	102	76-119	0			
Methyl tert-butyl ether	226.8	15	200	0	113	77-137	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** WSP USA Corp.  
**Work Order:** 23021990  
**Project:** 31406019.705C

## QC BATCH REPORT

Batch ID: <b>R365302w</b>	Instrument ID <b>VMS12</b>	Method: <b>SW8260C</b>						
Methylcyclohexane	205.8	12	200	0	103	66-125	0	
Methylene chloride	216.3	29	200	0	108	68-125	0	
o-Xylene	201.4	10	200	0	101	77-116	0	
Styrene	197.6	11	200	0	98.8	76-123	0	
Tetrachloroethene	574.6	13	200	403.6	85.5	80-124	0	
Toluene	192.4	15	200	0	96.2	78-116	0	
trans-1,2-Dichloroethene	212.8	16	200	0	106	73-124	0	
trans-1,3-Dichloropropene	153.1	27	200	0	76.6	67-118	0	
Trichloroethene	222.2	14	200	12.3	105	75-122	0	
Trichlorofluoromethane	169.7	17	200	0	84.8	52-115	0	
Vinyl chloride	158.5	18	200	0	79.2	49-122	0	
Xylenes, Total	608.1	44	600	0	101	77-119	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>207.9</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>104</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>209</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>104</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>205.1</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>187</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>93.5</i>	<i>80-120</i>	<i>0</i>	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.  
 Work Order: 23021990  
 Project: 31406019.705C

# QC BATCH REPORT

Batch ID: **R365302w** Instrument ID **VMS12** Method: **SW8260C**

MSD				Sample ID: 23021840-02A MSD		Units: µg/L		Analysis Date: 2/28/2023 10:52 PM		
Client ID:		Run ID: VMS12_230228A		SeqNo: 9315032		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	224.1	15	200	0	112	75-119	194.3	14.2	30	
1,1,1,2-Tetrachloroethane	194.8	13	200	0	97.4	80-123	179.6	8.12	30	
1,1,2-Trichloroethane	198.5	15	200	0	99.2	83-118	184.9	7.09	30	
1,1,2-Trichlorotrifluoroethane	241.1	17	200	0	121	64-133	229	5.15	30	
1,1-Dichloroethane	227.1	15	200	0	114	73-122	204.9	10.3	30	
1,1-Dichloroethene	252.8	14	200	0	126	66-131	226.1	11.2	30	
1,2,3-Trichlorobenzene	129.9	14	200	0	65	65-140	112.3	14.5	30	S
1,2,3-Trichloropropane	207.1	13	200	0	104	78-119	195.9	5.56	30	
1,2,4-Trichlorobenzene	168.7	15	200	0	84.4	73-127	155.7	8.01	30	
1,2,4-Trimethylbenzene	205.2	15	200	0	103	74-118	192.5	6.39	30	
1,2-Dibromo-3-chloropropane	151.7	14	200	0	75.8	52-141	151.1	0.396	30	
1,2-Dibromoethane	195	14	200	0	97.5	60-159	185.3	5.1	30	
1,2-Dichlorobenzene	198.4	11	200	0	99.2	80-119	188.4	5.17	30	
1,2-Dichloroethane	224.7	14	200	0	112	78-121	214.4	4.69	30	
1,2-Dichloropropane	227.1	16	200	0	114	78-120	201.8	11.8	30	
1,3,5-Trimethylbenzene	205.6	22	200	0	103	76-120	190.2	7.78	30	
1,3-Dichlorobenzene	205.6	11	200	0	103	80-120	189.7	8.04	30	
1,4-Dichlorobenzene	200.9	12	200	0	100	81-119	184.3	8.62	30	
2-Butanone	203.2	17	200	0	102	69-147	197.6	2.79	30	
2-Hexanone	205.9	20	200	0	103	67-140	208.9	1.45	30	
4-Methyl-2-pentanone	250.6	17	200	0	125	68-199	248.9	0.681	30	
Acetone	220.8	210	200	0	110	70-166	235	6.23	30	
Benzene	224.6	15	200	0	112	78-120	206.6	8.35	30	
Bromochloromethane	223.3	15	200	0	112	70-125	207.9	7.14	30	
Bromodichloromethane	211.5	16	200	0	106	73-126	193.7	8.79	30	
Bromoform	163.1	19	200	0	81.6	60-124	146.6	10.7	30	
Bromomethane	135	30	200	0	67.5	20-183	91.4	38.5	30	R
Carbon disulfide	194.3	16	200	0	97.2	67-159	169.1	13.9	30	
Carbon tetrachloride	219.5	14	200	0	110	69-124	193.4	12.6	30	
Chlorobenzene	215	13	200	0	108	80-118	198.4	8.03	30	
Chloroethane	171.7	23	200	0	85.8	35-136	150.6	13.1	30	
Chloroform	231.3	15	200	6.3	112	75-119	214	7.77	30	
Chloromethane	138.2	28	200	0	69.1	26-117	125.5	9.63	30	
cis-1,2-Dichloroethene	248.6	14	200	20.1	114	75-123	228.9	8.25	30	
cis-1,3-Dichloropropene	198.7	19	200	0	99.4	69-120	187	6.07	30	
Cyclohexane	218	21	200	0	109	66-128	201.9	7.67	30	
Dibromochloromethane	150.2	13	200	0	75.1	63-117	141.4	6.04	30	
Dichlorodifluoromethane	186	23	200	0	93	36-133	170.7	8.58	30	
Ethylbenzene	218.2	11	200	0	109	76-116	201.9	7.76	30	
Isopropylbenzene	215.3	12	200	0	108	77-118	192.5	11.2	30	
m,p-Xylene	446	27	400	0	112	76-119	406.7	9.22	30	
Methyl tert-butyl ether	239.1	15	200	0	120	77-137	226.8	5.28	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: WSP USA Corp.  
 Work Order: 23021990  
 Project: 31406019.705C

# QC BATCH REPORT

Batch ID: <b>R365302w</b>	Instrument ID <b>VMS12</b>		Method: <b>SW8260C</b>							
Methylcyclohexane	224.9	12	200	0	112	66-125	205.8	8.87	30	
Methylene chloride	230.1	29	200	0	115	68-125	216.3	6.18	30	
o-Xylene	218.6	10	200	0	109	77-116	201.4	8.19	30	
Styrene	212.2	11	200	0	106	76-123	197.6	7.13	30	
Tetrachloroethene	612.1	13	200	403.6	104	80-124	574.6	6.32	30	
Toluene	206.7	15	200	0	103	78-116	192.4	7.17	30	
trans-1,2-Dichloroethene	238.7	16	200	0	119	73-124	212.8	11.5	30	
trans-1,3-Dichloropropene	170.5	27	200	0	85.2	67-118	153.1	10.8	30	
Trichloroethene	241.7	14	200	12.3	115	75-122	222.2	8.41	30	
Trichlorofluoromethane	194.7	17	200	0	97.4	52-115	169.7	13.7	30	
Vinyl chloride	176.5	18	200	0	88.2	49-122	158.5	10.7	30	
Xylenes, Total	664.6	44	600	0	111	77-119	608.1	8.88	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	202.2	0	200	0	101	80-120	207.9	2.78	30	
<i>Surr: 4-Bromofluorobenzene</i>	201.6	0	200	0	101	80-120	209	3.6	30	
<i>Surr: Dibromofluoromethane</i>	201.4	0	200	0	101	80-120	205.1	1.82	30	
<i>Surr: Toluene-d8</i>	183.3	0	200	0	91.6	80-120	187	2	30	

The following samples were analyzed in this batch:

23021990-01A	23021990-02A	23021990-03A
23021990-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



# Chain of Custody Form

ALS Group USA, Corp

Work Order

Company Name	WSP USA Corp.	Purchase Order		Parameter/Method Request for Analysis	
Send Report To		Company Name	WSP USA Corp.	A	VOC W1 LIST 8260
Project Name	31406019.705 C	Invoice Attn	Accounts Payable	B	
Address	5957 McKee Road, Suite 7	Project #		C	
City State Zip	Fitchburg, WI 53719	Address	5957 McKee Road, Suite 7	D	
Phone	6083107676	City State Zip	Fitchburg, WI 53719	E	
e-Mail Address	tim.huffecosp.com	Phone	6083107676	F	
		e-Mail Address	Joe.Kiel@wsp.com	G	
				H	
				I	
				J	

## 23021990

WSP- MAD: WSP USA Corp.  
Project: 3140619.705C



#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	MW-13-33	2/24/23	1105	GLW	HCL	3	X										
2	MW-131-33		1105				X										
3	MW-06-100		1210				X										
4	EB22423A		1220				X										
5																	
6																	
7																	
8																	
9																	
10																	

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: 78 hrs		Results Due:					
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5036						Std 10 Wk days		5 Wk days		2 Wk days		24 hr	
Relinquished by	Date	Time	Received by	Date	Time	NOTES:							
<i>Joe Kiel</i>	2/24/23	1500	<i>Tim Huffe</i>	2/27/23	17:00	29°C 123							
<i>Joe Kiel</i>	2/27/23	17:00	<i>QS</i>	2/27/23	17:00	QC Reporting Level: (check box below)							
<i>QS</i>	2/27/23	2130	<i>Joe Kiel</i>	2/27/23	2130	Level II: Standard QC		Other:					
						Level III: Std QC + Raw data							
						Level IV: SW846 CLP-Like							

### Sample Receipt Checklist

Client Name: **WSP- MAD**

Date/Time Received: **27-Feb-23 21:30**

Work Order: **23021990**

Received by: **KRW**

Checklist completed by Keith Wierenga 28-Feb-23  
eSignature Date

Reviewed by: Chad Whelton 01-Mar-23  
eSignature Date

Matrices: Water

Carrier name: Courier

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="2.9/3.9 C"/>		<input type="text" value="IR3"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="2/28/2023 8:45:22 AM"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

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Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

## ENCLOSURE B – HYDROGEOLOGIST CERTIFICATION

Monitoring Well Sampling Results – MW-13-33 and MW-06-100  
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.



March 9, 2023

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

Date